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# Control and Signaling Devices

## Introduction

### Overview



3SB 2



SIGNUM 3SB3



SIGNUM 3SB3



SIGNUM 3SB3

#### Pushbuttons and indicator lights

##### Design

Nominal diameter	16 mm	22 mm	22 mm	22 mm
Version	Plastic, round	Plastic, round	Plastic, square	Metal, round

##### Actuating elements

Pushbuttons and switches	✓	✓	✓	✓
Illuminated pushbuttons and switches	✓	✓	✓	✓
Mushroom pushbuttons	–	✓	–	✓
Push-pull buttons	–	✓	–	✓
EMERGENCY-STOP mushroom pushbuttons	✓	✓	✓	✓
Non-illuminated selector switches	✓	✓	✓	✓
Key-operated switches	✓	✓	✓	✓

##### Special actuating elements

Joystick switches	–	✓	–	–
Twin pushbuttons	–	✓	–	–
Potentiometer operating mechanisms	–	✓	–	–

##### Indicators

Indicator lights	✓	✓	✓	✓
Acoustic signaling devices	–	✓	–	–

##### Switch blocks

Single-pole	✓	✓	✓	✓
Double-pole	✓	✓	✓	✓

##### Lampholders

Wedge base	✓	✓ (with solder pins)	✓ (with solder pins)	✓ (with solder pins)
BA 9s base	–	✓	✓	✓
with integrated LED	–	✓	✓	✓

##### Connections

Plug-in connection	✓	–	–	–
Screw connection	–	✓	✓	✓
Spring-loaded terminal	–	✓	✓	✓
Solder pins	✓	✓	✓	✓
AS-Interface	–	✓	✓	✓

#### AS-Interface solutions

Control and signaling devices of the SIGNUM 3SB3 series can be connected to the AS-Interface communication system quickly and easily with the help of various solutions.

For AS-Interface solutions, see [Catalog IK PI "Industrial communication for Automation & Drives"](#).

##### AS-Interface EMERGENCY-STOP

It is now possible to directly connect EMERGENCY-STOP devices over the standard AS-Interface using failsafe communication. This only applies for EMERGENCY-STOP devices of SIGNUM 3SB3 control devices for front panel mounting and for mounting in an enclosure.

##### AS-Interface front panel module

The front panel module contains one 4I/4O slave, four SIGNUM 3SB3 control devices as well as the necessary mounting accessories.

The module is mounted on the rear of a group of four control devices arranged horizontally or vertically and fixed with screws. For mounting control devices, a grid pattern of 30 mm × 45 mm must be used. Contact is made with the trapezoidal section of the AS-Interface cable by means of a terminal on the rear of the module using the insulation piercing method.

The module is addressed using the AS-Interface connections or the integrated addressing socket.



**SIGNUM 3SB3**  
Enclosure



**SIGNUM 3SB3**  
Enclosure



**SIGNUM 3SF3**  
AS-Interface



**SIGNUM 3SB4**  
Control panel

	SIGNUM 3SB3 Enclosure	SIGNUM 3SB3 Enclosure	SIGNUM 3SF3 AS-Interface	SIGNUM 3SB4 Control panel
<b>Design</b>				
Nominal diameter	22 mm	22 mm	22 mm	22 mm
Version	Plastic, round	Metal, round	Plastic, round	Plastic/metal
<b>Actuators</b>				
Pushbuttons and switches	✓	✓	✓	✓
Illuminated pushbuttons and switches	✓	✓	✓	✓
Mushroom pushbuttons	✓	✓	✓	✓
Push-pull buttons	✓	✓	✓	✓
EMERGENCY-STOP mushroom pushbuttons	✓	✓	✓	✓
Non-illuminated selector switches	✓	✓	✓	✓
Key-operated switches	✓	✓	✓	✓
<b>Indicators</b>				
Indicator lights	✓	✓	✓	✓
Acoustic signaling devices	✓	-	✓	✓
<b>Special actuators</b>				
Joystick switches	-	-	-	-
Twin pushbuttons	-	-	-	-
Potentiometer operating mechanism	-	-	-	✓
Membrane keypads	-	-	-	✓
<b>Switch blocks</b>				
Single-pole	✓	✓	-	✓
Double-pole	-	-	-	✓
<b>Lampholders</b>				
Wedge base	-	-	-	-
BA 9s base	✓	✓	-	✓
with integrated LED	✓	✓	-	✓
<b>Connections</b>				
Plug-in connection	-	-	-	✓
Screw connection	✓	✓	-	✓
Spring-loaded terminal	✓	✓	-	✓
Solder pins	-	-	-	✓
AS-Interface	-	-	✓	✓
PROFIBUS DP	-	-	-	✓

### AS-Interface solutions

Control and signaling devices of the SIGNUM 3SB3 series can be connected to the AS-Interface communication system quickly and easily with the help of various solutions.

For AS-Interface solutions, see [Catalog IK PI "Industrial communication for Automation & Drives"](#).

### AS-Interface enclosure

The enclosures without EMERGENCY-STOP contain a 4I/4O application module; an F adapter is mounted onto EMERGENCY-STOP enclosures. The switch blocks and lampholders of the control devices as well as the AS-Interface slave are soldered onto a supporting printed circuit board and screwed onto the control devices.

# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

### General data

#### Overview

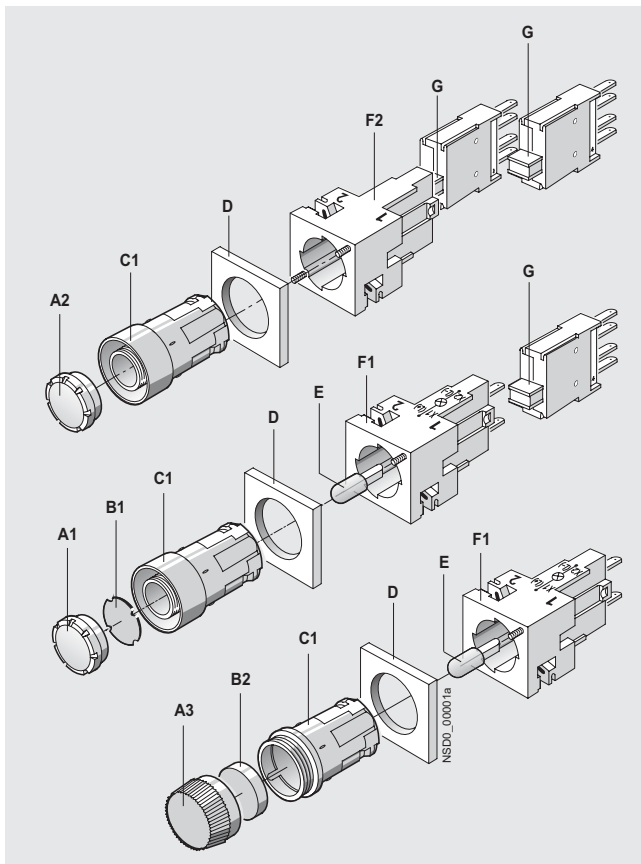
The 3SB2 pushbuttons and indicator lights are provided for front plate mounting and rear connection with flat connectors. For use on PCBs, switch blocks and lampholders with solder pins are also available.

The devices are climate-proof and suitable for marine applications.

#### Standards

IEC 60947-5-1 (VDE 0660 Part 200).

#### Design



- A1 Illuminated pushbutton, flat
- A2 Pushbutton, flat
- A3 Screw lens for indicator light
- B1 Insert label for inscription
- B2 Insert cap for inscription
- C1 Collar with extruded front ring
- C2 Collar for indicator light
- D Frame for rectangular design
- E Wedge-base lamps W2 × 4.6 d
- F1 Lampholder with holder
- F2 Holder
- G Switch blocks (1 NO or 1 NC) for snapping onto holder or lampholder

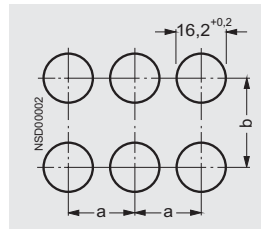
#### Design

Two versions are available:

- Round design: The 3SB2 pushbuttons and indicator lights are assembled with the elements – actuator, holder, switch block and lampholder. Depending on the specific application, various versions can be assembled. Complete units are offered for the most commonly used applications.
- Square design: With square, black frames the round units can be given a square look. The frames are inserted underneath the round actuators. Further mounting is the same as for the round design.

#### Mounting and fixing

Mounting dimensions acc. to EN 50007.



Minimum clearance	A	B
Round design	19	19
Square design without labeling plate	21	21
Round and square design with labeling plate	21	32
For 2 selector switches with 3 switch positions, latching, side by side	21	21

For fixing, the actuator or the lens assembly is inserted from the front into the hole in the front plate. Four small nubs ensure a secure fitting in the hole. The holder is plugged on the actuator or the lens assembly from behind and automatically snaps into place. The element is screwed down tightly with 2 screws on the holder and thus levels panel thickness from 1 to 6 mm.

One or two switch blocks can be mounted on the holder. They are inserted into the holder with slide slots and held down with two snap brackets.

If a command point is fitted with an indicator light or illuminated pushbutton, a lamp socket with holder must be used instead of a holder. It is suitable for incandescent lamps or LEDs with sockets of type W2 × 4.6 d.

#### Connections

The switch blocks and the lampholder are equipped with flat connectors in accordance with IEC 60760 which can also be used as solder-pin terminals.

To permit through-connection all terminals are provided with two tabs.

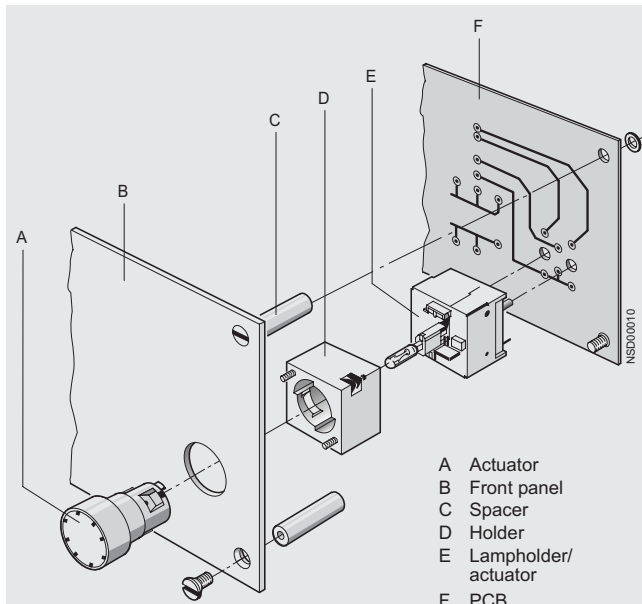
# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

### General data

#### For PCB mounting

The command point comprises the actuator – e.g. 3SB2 pushbutton, illuminated pushbutton or indicator light –, which is mounted in the front plate, and a switch block and a lampholder which are soldered to the PCB. For this purpose, the switch blocks and lampholders are fitted with 0.8 mm × 0.8 mm solder pins of length 3.5 mm.



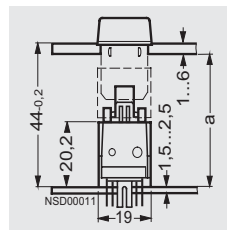
#### Mounting and fixing

Mounting dimensions acc. to EN 50007.

The actuators are mounted in the same way as 3SB2 front plate mounting devices.

The switch blocks and lampholders plugged into the printed-circuit board by means of their soldering pins and can be flow-soldered. After soldering, the devices must be flush with the board and perpendicular to it. The printed circuit board must be supported on spacers so that it cannot sag or bend more than 0.1 mm.

**Illuminated pushbuttons** with switch blocks and lampholders with solder pins



Length  $a$  of spacing bolts  
 $a = 44^{-0.2}$  minus front panel thickness

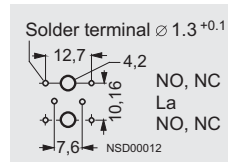
When using name plates, the length  $a$  is reduced by 0.8 mm.

To avoid bending the PCB when the pushbuttons are operated, sufficient spacers must be provided as shown in the table below:

PCB thickness	Max. distance between spacers
1.5 mm	80 mm
2.5 mm	150 mm
When using EMERGENCY-STOP pushbuttons	always 50 mm

These details are based on epoxy resin glass fiber mat.

#### Spacing of solder pins



# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

### General data

#### Technical specifications





<b>Regulations, standards</b>	IEC 60947-5-1, EN 60947-5-1 (VDE 0660 Part 200), IEC 60947-5-5, EN 60947-5-5	
<b>Rated insulation voltage <math>U_i</math></b>	250 V	
<b>Continuous thermal current <math>I_{th}</math></b>	10 A	
<b>Rated operating current <math>I_e</math> at rated operating voltage <math>U_e</math></b>		
• Alternating current AC-12	At $U_e$ 230 V	$I_e$ 10 A
• Alternating current AC-15	At $U_e$ 24 V 60 V 110 V 230 V	$I_e$ 4 A 4 A 4 A 4 A
• Direct current DC-12	At $U_e$ 24 V 60 V 110 V 230 V	$I_e$ 6 A 5 A 2.5 A 1 A
• Direct current DC-13	At $U_e$ 24 V 60 V 110 V 230 V	$I_e$ 3 A 1.5 A 0.7 A 0.3 A
<b>Contact stability</b> Test voltage/test current	5 V/1 mA	
<b>Short-circuit protection</b> completely weld-free according to IEC 60947-5-1	10 A TDz, 16 A Dz	
• DIAZED fuse links, operational class gL/gG	10 A	
• Circuit-breakers with C characteristic according to IEC 60898 (VDE 0641)	10 A	
<b>Mechanical endurance</b>	10 × 10 <sup>6</sup> operating cycles	
• Pushbuttons and switch blocks	3 × 10 <sup>5</sup> operating cycles	
• Actuating elements, rotary or latching	3 × 10 <sup>6</sup> operating cycles	
• Illuminated pushbuttons		
<b>Electrical endurance</b>	10 × 10 <sup>6</sup> operating cycles	
• For operational class AC-15 with 3RT10 15 to 3RT10 26 contactors		
<b>Climatic withstand capability</b>	Climate-proof; suitable for marine applications	
<b>Ambient temperature</b>	-25 to +70 °C	
• During operation, non-illuminated devices and with LED	-25 to +60 °C	
• During operation, devices with incandescent lamp	-40 to +80 °C	
• During storage, transport		
<b>Degree of protection</b> acc. to IEC 60529 (VDE 0470 Part 1)	IP00	
• Connection of switch blocks and lampholders behind the front panel	IP40	
• Contact chambers of the switch blocks behind the front panel	IP65	
• Actuators and indicators	IP67	
• Actuator and indicators with protective cap		
<b>Lamps</b>	Wedge base W2 × 4.6 d	
• Base	6, 12, 24, 30, 48, 60 V; max. 1 W	
• Operating voltage range		
<b>Connection</b>	Flat connector 2 × 2.8/0.8 mm	
Clamp-type terminal with flat connectors for plug-in sleeves to IEC 60760		
<b>Safety measures</b>	The actuating elements and lens assemblies must not be included in the protective measures. The protective measure "Total insulation" is retained.	
• For mounting in metal front plates and enclosures		
• For fitting into enclosures with total insulation		
<b>Finger-safe</b> acc. to DIN VDE 0106 Part 100 and VBG 4	With voltages > AC 50 V or DC 120 V insulating sleeves must be fitted to the unassigned tab connections.	
<b>Shock resistance</b> acc. to IEC 60068-2-27	≤ 50 g	
Shock amplitude	11 ms	
Shock duration	Half-sine	
Shock form		
<b>Data acc. to UL and CSA</b>		
Rated voltage	AC 250 V max.	
• Switch blocks	Lamp with wedge base W2 × 4.6 d: max. 60 V; 1 W	
• Indicator lights		
Continuous current	5 A	
Switching capacity	B 300, R 300	

# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

Complete unit combinations

### Selection and ordering data

Version	Color Actuator	Switch blocks	DT	Order No.	PS*	Weight per PU, approx. kg	
 <p>Pushbuttons and illuminated pushbuttons with flat button</p>		Version					
		<b>Pushbutton with flat button</b>	black	1 NO	▶	<b>3SB22 02-0AB01</b>	1 unit 0.023
			black	1 NC	B	<b>3SB22 03-0AB01</b>	1 unit 0.023
			red	1 NC	▶	<b>3SB22 03-0AC01</b>	1 unit 0.023
			yellow	1 NO	B	<b>3SB22 02-0AD01</b>	1 unit 0.023
			green	1 NO	▶	<b>3SB22 02-0AE01</b>	1 unit 0.023
			blue	1 NO	B	<b>3SB22 02-0AF01</b>	1 unit 0.023
			white	1 NO	▶	<b>3SB22 02-0AG01</b>	1 unit 0.024
			clear <sup>1)</sup>	1 NO	B	<b>3SB22 02-0AH01</b>	1 unit 0.023
		<b>Illuminated pushbutton with flat button</b> with lampholder W2 x 4.6 d <sup>2)</sup>	red	1 NC	▶	<b>3SB22 07-0AC01</b>	1 unit 0.025
			yellow <sup>1)</sup>	1 NO	B	<b>3SB22 06-0AD01</b>	1 unit 0.025
			green	1 NO	▶	<b>3SB22 06-0AE01</b>	1 unit 0.025
			blue	1 NO	B	<b>3SB22 06-0AF01</b>	1 unit 0.025
			clear <sup>1)</sup>	1 NO	▶	<b>3SB22 06-0AH01</b>	1 unit 0.024
		<b>Illuminated pushbutton with flat button</b> with lampholder W2 x 4.6 d and incandescent lamp 24 V	red	1 NC	▶	<b>3SB22 27-0AC01</b>	1 unit 0.025
	yellow <sup>1)</sup>	1 NO	B	<b>3SB22 26-0AD01</b>	1 unit 0.025		
	green	1 NO	▶	<b>3SB22 26-0AE01</b>	1 unit 0.025		
	blue	1 NO	B	<b>3SB22 26-0AF01</b>	1 unit 0.025		
	clear <sup>1)</sup>	1 NO	▶	<b>3SB22 26-0AH01</b>	1 unit 0.025		
 <p>Pushbuttons and illuminated pushbuttons with raised button</p>		<b>Pushbutton with raised button</b>	black	1 NO	B	<b>3SB22 02-0LB01</b>	1 unit 0.024
			red	1 NC	B	<b>3SB22 03-0LC01</b>	1 unit 0.024
			yellow	1 NO	B	<b>3SB22 02-0LD01</b>	1 unit 0.023
			blue	1 NO	B	<b>3SB22 02-0LF01</b>	1 unit 0.024
			clear <sup>1)</sup>	1 NO	B	<b>3SB22 02-0LH01</b>	1 unit 0.024
		<b>Illuminated pushbutton with raised button</b> with lampholder W2 x 4.6 d <sup>2)</sup>	red	1 NC	B	<b>3SB22 07-0LC01</b>	1 unit 0.025
			yellow <sup>1)</sup>	1 NO	B	<b>3SB22 06-0LD01</b>	1 unit 0.025
			green	1 NO	B	<b>3SB22 06-0LE01</b>	1 unit 0.025
			blue	1 NO	B	<b>3SB22 06-0LF01</b>	1 unit 0.022
			clear <sup>1)</sup>	1 NO	B	<b>3SB22 06-0LH01</b>	1 unit 0.025
 <p>EMERGENCY-STOP mushroom pushbuttons acc. to EN 418, latching</p> <p>latches automatically when pressed; unlatches by turning the mushroom head anticlockwise</p> <p>with yellow name plate with inscription "EMERGENCY-STOP"</p> 		<b>Illuminated pushbutton with raised button</b> with lampholder W2 x 4.6 d and incandescent lamp 24 V	red	1 NC	B	<b>3SB22 27-0LC01</b>	1 unit 0.027
			yellow <sup>1)</sup>	1 NO	B	<b>3SB22 26-0LD01</b>	1 unit 0.026
			green	1 NO	B	<b>3SB22 26-0LE01</b>	1 unit 0.026
			blue	1 NO	B	<b>3SB22 26-0LF01</b>	1 unit 0.025
			clear <sup>1)</sup>	1 NO	B	<b>3SB22 26-0LH01</b>	1 unit 0.026
		<b>EMERGENCY-STOP mushroom pushbuttons acc. to EN 418, latching</b>	red	1 NC → <sup>3)</sup>	▶	<b>3SB22 03-1AC01</b>	1 unit 0.032

1) Inscription is possible by inserting a label.




2) For wedge base lamps, see Accessories.




3) Positive opening according to IEC 60947-5-1, Appendix K.



# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

### Complete unit combinations

Version	Color Actuator	Switch blocks	DT	Order No.	PS*	Weight per PU, approx.	
						kg	
 <p>Non-illuminated selector switches</p>	<b>Selector switch, 2 switch positions</b> switching sequence O-I latching	black	1 NO	▶	<b>3SB22 02-2AB01</b> <b>3SB22 02-2AC01</b> <b>3SB22 02-2AE01</b> <b>3SB22 02-2AG01</b>	1 unit	0.026
		red	1 NO	B		1 unit	0.025
		green	1 NO	B		1 unit	0.025
		white	1 NO	B		1 unit	0.026
	<b>Selector switch, 3 switch positions</b> switching sequence I-O-II latching	black	1 NO, 1 NO	▶	<b>3SB22 10-2DB01</b> <b>3SB22 10-2DC01</b> <b>3SB22 10-2DE01</b> <b>3SB22 10-2DG01</b>	1 unit	0.030
		red	1 NO, 1 NO	B		1 unit	0.028
		green	1 NO, 1 NO	B		1 unit	0.030
		white	1 NO, 1 NO	B		1 unit	0.029
	<b>Selector switch, 3 switch positions</b> switching sequence I-O-II momentary contact type	black	1 NO, 1 NO	▶	<b>3SB22 10-2EB01</b> <b>3SB22 10-2EC01</b> <b>3SB22 10-2EE01</b> <b>3SB22 10-2EG01</b>	1 unit	0.030
		red	1 NO, 1 NO	B		1 unit	0.029
		green	1 NO, 1 NO	B		1 unit	0.029
		white	1 NO, 1 NO	B		1 unit	0.029

Version	Lock No.	Switch blocks	Key removal position	DT	Order No.	PS*	Weight per PU, approx.	
							kg	
 <p>CES key-operated switch</p>	SB 2	1 NO	O	▶	<b>3SB22 02-4LA01</b> <b>3SB22 02-4LB01</b>	1 unit	0.053	
		1 NO	O + I	B			1 unit	0.053
		1 NO, 1 NO	O	B			1 unit	0.056
	SB 2	1 NO, 1 NO	O + I + O + II	B	<b>3SB22 10-4PA01</b> <b>3SB22 10-4PB01</b>	1 unit	0.056	
		1 NO, 1 NO	O	B			1 unit	0.056
	SB 2	1 NO, 1 NO	O	B	<b>3SB22 10-4QA01</b>	1 unit	0.057	
		1 NO, 1 NO	O	B			1 unit	0.057

Version	Color Actuator	DT	Order No.	PS*	Weight per PU, approx.	
					kg	
 <p>Indicator lights</p>	<b>Indicator light</b> with lampholder W2 x 4.6 d without lamp <sup>1)</sup>	▶	<b>3SB22 04-6BC06</b> <b>3SB22 04-6BD06</b> <b>3SB22 04-6BE06</b> <b>3SB22 04-6BG06</b> <b>3SB22 04-6BH06</b>	1 unit	0.020	
		B			1 unit	0.020
		▶			1 unit	0.020
		▶			1 unit	0.020
		▶			1 unit	0.020
		B			1 unit	0.020
	<b>Indicator light</b> with lampholder W2 x 4.6 d and incandescent lamp 24 V	▶	<b>3SB22 24-6BC06</b> <b>3SB22 24-6BD06</b> <b>3SB22 24-6BE06</b> <b>3SB22 24-6BG06</b> <b>3SB22 24-6BH06</b>	1 unit	0.021	
		B			1 unit	0.021
		▶			1 unit	0.021
		▶			1 unit	0.020
		▶			1 unit	0.020
		B			1 unit	0.021

1) For wedge base lamps, see Accessories.






# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

### Actuating and signaling elements








#### Selection and ordering data

	Version	Color Actuator	DT	Order No.	PS*	Weight per PU, approx. kg
 <p>Pushbutton and illuminated pushbutton with flat button</p>	<b>Pushbutton with flat button</b>	black	▶	<b>3SB20 00-0AB01</b>	1 unit	0.005
		red	▶	<b>3SB20 00-0AC01</b>	1 unit	0.005
		yellow	B	<b>3SB20 00-0AD01</b>	1 unit	0.005
		green	▶	<b>3SB20 00-0AE01</b>	1 unit	0.005
		blue	▶	<b>3SB20 00-0AF01</b>	1 unit	0.005
		white, clear <sup>1)</sup>	▶	<b>3SB20 00-0AG01</b>	1 unit	0.005
	<b>Illuminated pushbutton with flat button</b>	red	▶	<b>3SB20 01-0AC01</b>	1 unit	0.005
		yellow <sup>1)</sup>	B	<b>3SB20 01-0AD01</b>	1 unit	0.006
		green	▶	<b>3SB20 01-0AE01</b>	1 unit	0.005
		blue	B	<b>3SB20 01-0AF01</b>	1 unit	0.005
		white, clear <sup>1)</sup>	▶	<b>3SB20 00-0AG01</b>	1 unit	0.005
			B	<b>3SB20 00-0AH01</b>	1 unit	0.005
 <p>Pushbutton and illuminated pushbutton with raised button</p>	<b>Pushbutton with raised button</b>	black	B	<b>3SB20 00-0LB01</b>	1 unit	0.005
		red	B	<b>3SB20 00-0LC01</b>	1 unit	0.005
		yellow	B	<b>3SB20 00-0LD01</b>	1 unit	0.005
		blue	B	<b>3SB20 00-0LF01</b>	1 unit	0.006
		white, clear <sup>1)</sup>	B	<b>3SB20 00-0LG01</b>	1 unit	0.020
			B	<b>3SB20 00-0LH01</b>	1 unit	0.006
	<b>Illuminated pushbutton with raised button</b>	red	B	<b>3SB20 01-0LC01</b>	1 unit	0.005
		yellow <sup>1)</sup>	B	<b>3SB20 01-0LD01</b>	1 unit	0.005
		green	B	<b>3SB20 01-0LE01</b>	1 unit	0.005
		blue	B	<b>3SB20 01-0LF01</b>	1 unit	0.006
		white, clear <sup>1)</sup>	B	<b>3SB20 00-0LH01</b>	1 unit	0.006
			B	<b>3SB20 00-0LH01</b>	1 unit	0.006
 <p>EMERGENCY-STOP mushroom pushbuttons</p>	<b>EMERGENCY-STOP mushroom pushbutton according to EN 418, latching<sup>2)</sup></b> latches automatically when pressed; Unlatches by turning the mushroom head anti-clockwise	red	▶	<b>3SB20 00-1AC01</b>	1 unit	0.015



1) Inscription is possible by inserting a label.

2) The mushroom pushbutton cannot be combined with 3SB29 00-0... name plate and 3SB29 02-0AA single frame.

	Version	Color Actuator	DT	Order No.	PS*	Weight per PU, approx. kg
 <p>Selector switches</p>	 <p><b>Selector switches with 2 switch positions</b> Switching sequence O-I, latching, 62° operating angle</p>	black	▶	<b>3SB20 00-2AB01</b>	1 unit	0.008
		red	A	<b>3SB20 00-2AC01</b>	1 unit	0.008
		green	B	<b>3SB20 00-2AE01</b>	1 unit	0.007
		white	B	<b>3SB20 00-2AG01</b>	1 unit	0.008
	 <p><b>Selector switches with 2 switch positions</b> Switching sequence O-I momentary contact type (reset from the right) 50° operating angle</p>	black	A	<b>3SB20 00-2BB01</b>	1 unit	0.008
		red	B	<b>3SB20 00-2BC01</b>	1 unit	0.008
	 <p><b>Selector switches with 2 switch positions</b> Switching sequence O-I, latching, 90° operating angle</p>	black	B	<b>3SB20 00-2HB01</b>	1 unit	0.009
		red	B	<b>3SB20 00-2HC01</b>	1 unit	0.008
		green	C	<b>3SB20 00-2HE01</b>	1 unit	0.007
		white	B	<b>3SB20 00-2HG01</b>	1 unit	0.008
	 <p><b>Selector switches with 3 switch positions</b> Switching sequence I-O-II, latching, 2 x 62° operating angle</p>	black	▶	<b>3SB20 00-2DB01</b>	1 unit	0.008
		red	C	<b>3SB20 00-2DC01</b>	1 unit	0.007
		green	B	<b>3SB20 00-2DE01</b>	1 unit	0.007
		white	B	<b>3SB20 00-2DG01</b>	1 unit	0.007
	 <p><b>Selector switches with 3 switch positions</b> Switching sequence I-O-II momentary contact type (reset from the right and left) 2 x 50° operating angle</p>	black	▶	<b>3SB20 00-2EB01</b>	1 unit	0.008
		red	B	<b>3SB20 00-2EC01</b>	1 unit	0.007
		green	B	<b>3SB20 00-2EE01</b>	1 unit	0.008
		white	B	<b>3SB20 00-2EG01</b>	1 unit	0.007
	 <p><b>Selector switches with 3 switch positions</b> Switching sequence I-O-II, latching, 2 x 90° operating angle</p>	black	B	<b>3SB20 00-2JB01</b>	1 unit	0.008

\* This quantity or a multiple thereof can be ordered

# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

### Actuating and signaling elements



CES key-operated switch

Version	Lock No.	Key removal position	DT	Order No.	PS*	Weight per PU, approx. kg
<b>CES key-operated switch with 2 keys, 2 switch positions</b> switching sequence O-I latching 62° operating angle	SB2	O+I O	B ▶	<b>3SB20 00-4LB01</b>	1 unit	0.035
				<b>3SB20 00-4LA01</b>	1 unit	0.036
<b>CES key-operated switch with 2 keys, 2 switch positions</b> switching sequence O-I momentary contact type (reset from the right) 50° operating angle	SB2	O	▶	<b>3SB20 00-4MA01</b>	1 unit	0.035
<b>CES key-operated switch with 2 keys, 3 switch positions</b> switching sequence I+O+II latching 2 x 62° operating angle	SB2	I+O+II O	B B	<b>3SB20 00-4PB01</b>	1 unit	0.035
				<b>3SB20 00-4PA01</b>	1 unit	0.035
<b>CES key-operated switch with 2 keys, 3 switch positions</b> switching sequence I-O-II momentary contact type (reset from the right) 2 x 50° operating angle	SB2	O	B	<b>3SB20 00-4QA01</b>	1 unit	0.038

Version	Color screw lens	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Indicator light with concentric rings</b> (inscription by inserting a cap is not possible)	red	▶	<b>3SB20 01-6BC06</b>	1 unit	0.004
	yellow	B	<b>3SB20 01-6BD06</b>	1 unit	0.004
	green	▶	<b>3SB20 01-6BE06</b>	1 unit	0.004
	blue	B	<b>3SB20 01-6BF06</b>	1 unit	0.004
	white	▶	<b>3SB20 01-6BG06</b>	1 unit	0.004
	clear	B	<b>3SB20 01-6BH06</b>	1 unit	0.004
<b>Indicator light, smooth,</b> for inscription by inserting a cap <sup>1)</sup>	red	B	<b>3SB20 01-6CC06</b>	1 unit	0.017
	yellow	B	<b>3SB20 01-6CD06</b>	1 unit	0.005
	green	B	<b>3SB20 01-6CE06</b>	1 unit	0.004
	blue	B	<b>3SB20 01-6CF06</b>	1 unit	0.004
	clear	B	<b>3SB20 01-6CH06</b>	1 unit	0.020

1) For insert caps, see Accessories.

# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

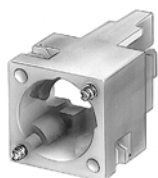
### Switch blocks and lampholders

#### Selection and ordering data

Version	Symbols	Contact travel	DT	Order No.	PS*	Weight per PU, approx.
		<div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; background-color: gray; margin-right: 5px;"></div> contact closed                 </div> <div style="display: flex; align-items: center;"> <div style="width: 10px; height: 10px; border: 1px solid gray; margin-right: 5px;"></div> contact open                 </div>				kg

#### Switch blocks and lampholders with tab connectors 2 × 2.8–0.8 mm acc. to IEC 60760

##### Holder for fixing the actuating element and the switch blocks



Holder

**Holder for 2 switch blocks**  
Inscription with sequence digit 1-2

▶ **3SB29 08-0AA** 5 units 0.008

##### Lamp socket with holder for fixing the actuator and the switch blocks



Lampholder

**Lampholder**  
W2 x 4.6 d



▶ **3SB23 04-2A** 1 unit 0.009

**Lampholder**  
W2 x 4.6 d

- with 6 V incandescent lamp
- with 24 V incandescent lamp



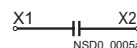
B **3SB23 04-2F** 1 unit 0.010

B **3SB23 04-2H** 1 unit 0.010



Series element

**Series element**<sup>1)</sup>  
for connecting the 3SB29 08-1AE (48 V) lamp to AC 230 V



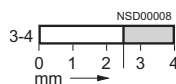
B **3SB24 04-3D** 1 unit 0.008

##### Switch blocks for fixing in the holder or lampholder



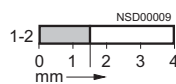
Switch block

**Switch block with one contact**<sup>2)</sup>  
1 NO



▶ **3SB24 04-0B** 1 unit 0.004

1 NC →<sup>3)</sup>



▶ **3SB24 04-0C** 1 unit 0.004

- 1) Use support point terminal according to IEC 60 439-1.
- 2) For plug-in and insulating sleeves, see Accessories.
- 3) Positive opening according to IEC 60 947-5-1, Appendix K.

# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

### Switch blocks and lampholders

Version	Symbols	Contact travel	DT	Order No.	PS*	Weight per PU, approx. kg
		<input checked="" type="checkbox"/> contact closed <input type="checkbox"/> contact open				

#### Switch blocks and lampholders with solder pins



Holder

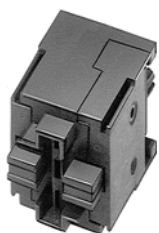
**Holder for switch blocks with solder pins**  
for fixing the actuating elements in the front panel

**Lampholder**  
wedge base W2 x 4.6 d



B **3SB29 08-0AB** 5 units 0.006

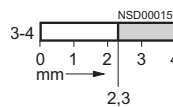
B **3SB24 55-2A** 1 unit 0.008



Switch block with solder pins

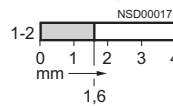
#### Switch block

1 NO



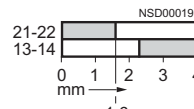
B **3SB24 55-0B** 1 unit 0.008

1 NC → <sup>1)</sup>



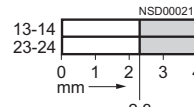
B **3SB24 55-0C** 1 unit 0.008

1 NO + 1 NC → <sup>1)</sup>



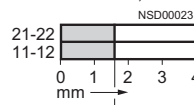
B **3SB24 55-0J** 1 unit 0.010

1 NO + 1 NO



B **3SB24 55-0E** 1 unit 0.009

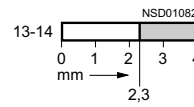
1 NC + 1 NC → <sup>1)</sup>



B **3SB24 55-0F** 1 unit 0.009

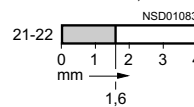
#### Switch block and lampholder, wedge base W2 x 4.6 d

1 NO



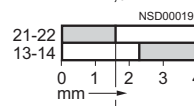
B **3SB24 55-1B** 1 unit 0.009

1 NC → <sup>1)</sup>



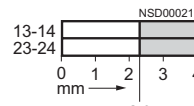
B **3SB24 55-1C** 1 unit 0.009

1 NO + 1 NC → <sup>1)</sup>



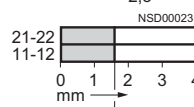
B **3SB24 55-1J** 1 unit 0.010

1 NO + 1 NO



B **3SB24 55-1E** 1 unit 0.010

1 NC + 1 NC → <sup>1)</sup>



C **3SB24 55-1F** 1 unit 0.010

1) Positive opening according to IEC 60947-5-1, Appendix K.

# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

Accessories and spare parts  
Insert labels and insert caps

### Overview

Clear pushbuttons, illuminated pushbuttons and indicator lights can be fitted with insert labels and caps for identification purposes.






The insert labels and insert caps are made of a milky-transparent plastic with black lettering; they can be fitted in any 90° angle.

### Inscription

The lettering has uppercase initial letters. The symbols, including those not listed in the catalog, are in accordance with DIN Report 4.

For customized labels, see Options.

### Selection and ordering data






















Inscription	Symbols with number acc. to DIN Report 4	DT	Insert labels for pushbuttons and illuminated pushbuttons, flat	PS*	Weight per PU, approx.	DT	Insert caps for pushbuttons and illuminated pushbuttons, raised	PS*	Weight per PU, approx.	
										
			Order No.		kg		Order No.		kg	
<b>For self-inscription</b>										
Without inscription	-	B	<b>3SB29 01-4AA</b>	10 units	0.100	B	<b>3SB29 01-5AA</b>	10 units	0.100	
<b>With inscription</b>										
Ein		B	<b>3SB29 01-4AB</b>	10 units	0.100	B	<b>3SB29 01-5AB</b>	10 units	0.100	
Aus		B	<b>3SB29 01-4AC</b>	10 units	0.100	B	<b>3SB29 01-5AC</b>	10 units	0.100	
Auf		B	<b>3SB29 01-4AD</b>	10 units	0.100	B	<b>3SB29 01-5AD</b>	10 units	0.100	
Ab		B	<b>3SB29 01-4AE</b>	10 units	0.100	B	-			
Vor		B	<b>3SB29 01-4AF</b>	10 units	0.100	B	<b>3SB29 01-5AF</b>	10 units	0.100	
Zurück		B	<b>3SB29 01-4AG</b>	10 units	0.100	B	<b>3SB29 01-5AG</b>	10 units	0.100	
Rechts		B	<b>3SB29 01-4AH</b>	10 units	0.100	B	-			
Links		B	<b>3SB29 01-4AJ</b>	10 units	0.100	B	-			
Halt		C	<b>3SB29 01-4AK</b>	10 units	0.100	B	-			
Zu		B	<b>3SB29 01-4AL</b>	10 units	0.100	B	<b>3SB29 01-5AL</b>	10 units	0.100	
Langsam		C	<b>3SB29 01-4AN</b>	10 units	0.100	B	-			
Störung		B	<b>3SB29 01-4AQ</b>	10 units	0.100	B	-			
On		C	<b>3SB29 01-4EB</b>	10 units	0.100	B	-			
Start		B	<b>3SB29 01-4EK</b>	10 units	0.100	B	-			
Stop		B	<b>3SB29 01-4EL</b>	10 units	0.100	B	-			
Reset		B	<b>3SB29 01-4EM</b>	10 units	0.100	B	-			
Test		B	<b>3SB29 01-4EN</b>	10 units	0.100	B	-			
0		B	<b>3SB29 01-4RA</b>	10 units	0.100	C	<b>3SB29 01-5RA</b>	10 units	0.100	
1		B	<b>3SB29 01-4RB</b>	10 units	0.100	B	<b>3SB29 01-5RB</b>	10 units	0.100	
2		B	<b>3SB29 01-4RC</b>	10 units	0.100	B	<b>3SB29 01-5RC</b>	10 units	0.100	
3		B	<b>3SB29 01-4RD</b>	10 units	0.100	B	<b>3SB29 01-5RD</b>	10 units	0.100	
4		B	<b>3SB29 01-4RE</b>	10 units	0.100	B	<b>3SB29 01-5RE</b>	10 units	0.100	
5		C	<b>3SB29 01-4RF</b>	10 units	0.100	B	<b>3SB29 01-5RF</b>	10 units	0.100	
6		C	<b>3SB29 01-4RG</b>	10 units	0.100	B	<b>3SB29 01-5RG</b>	10 units	0.100	
7		C	<b>3SB29 01-4RH</b>	10 units	0.100	B	<b>3SB29 01-5RH</b>	10 units	0.100	
8		C	<b>3SB29 01-4RJ</b>	10 units	0.100	B	<b>3SB29 01-5RJ</b>	10 units	0.100	
9		C	<b>3SB29 01-4RK</b>	10 units	0.100	B	<b>3SB29 01-5RK</b>	10 units	0.100	
<b>Symbol for ON/OFF</b>										
O (Off)		No. 15	B	<b>3SB29 01-4MB</b>	10 units	0.100	C	<b>3SB29 01-5MB</b>	10 units	0.100
I (On)		No. 16	B	<b>3SB29 01-4MC</b>	10 units	0.100	B	<b>3SB29 01-5MC</b>	10 units	0.100
II (On)		-	C	<b>3SB29 01-4MD</b>	10 units	0.100	B	-		

# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

### Accessories and spare parts





#### Insert labels and insert caps

Inscription	Symbols with number acc. to DIN Report 4	DT	Insert labels for pushbuttons and illuminated pushbuttons, flat	PS*	Weight per PU, approx.	DT	Insert caps for pushbuttons and illuminated pushbuttons, raised	PS*	Weight per PU, approx.
									
			Order No.		kg		Order No.		kg
<b>Equipment symbols</b>									
Electric motor	 No. 42	B	<b>3SB29 01-4PA</b>	10 units	0.100	-			
Horn	 No. 155	B	<b>3SB29 01-4PB</b>	10 units	0.100	-			
Pump	 No. 695	C	<b>3SB29 01-4PD</b>	10 units	0.100	-			
Coolant pump	 No. 713	B	<b>3SB29 01-4PE</b>	10 units	0.100	-			
<b>Motion symbols</b>									
Motion in direction of arrow	 No. 28	B	<b>3SB29 01-4NA</b>	10 units	0.100	B	<b>3SB29 01-5NA</b>	10 units	0.100
Motion in direction of arrow	 No. 28 b	B	<b>3SB29 01-4NB</b>	10 units	0.100	B	<b>3SB29 01-5NB</b>	10 units	0.100
Clockwise rotation	 No. 100	B	<b>3SB29 01-4NC</b>	10 units	0.100	-			
Anticlockwise rotation	 No. 114	B	<b>3SB29 01-4ND</b>	10 units	0.100	-			
Fast motion	 No. 1919	C	<b>3SB29 01-4NE</b>	10 units	0.100	-			
Increase (plus)	 No. 40	B	<b>3SB29 01-4NG</b>	10 units	0.100	B	<b>3SB29 01-5NG</b>	10 units	0.100
Decrease (minus)	 No. 41	B	<b>3SB29 01-4MC</b>	10 units	0.100	B	<b>3SB29 01-5MC</b>	10 units	0.100
<b>Control symbols</b>									
Clamp	 No. 259	B	<b>3SB29 01-4QB</b>	10 units	0.100	B	<b>3SB29 01-5QB</b>	10 units	0.100
Release	 No. 169	B	<b>3SB29 01-4QC</b>	10 units	0.100	B	<b>3SB29 01-5QC</b>	10 units	0.100
Brake off	 No. 266	C	<b>3SB29 01-4QE</b>	10 units	0.100	-			
Lock	 No. 46	C	<b>3SB29 01-4QF</b>	10 units	0.100	-			
Unlock	 No. 45	B	<b>3SB29 01-4QG</b>	10 units	0.100	C	<b>3SB29 01-5QG</b>	10 units	0.100
On/Off, momentary contact	 No. 19	B	<b>3SB29 01-4QJ</b>	10 units	0.100	-			
Manual operation	 No. 35	B	<b>3SB29 01-4QK</b>	10 units	0.100	-			
Automatic sequence	 No. 267	B	<b>3SB29 01-4QL</b>	10 units	0.100	B	<b>3SB29 01-5QL</b>	10 units	0.100
<b>Customized inscriptions</b>									
<b>Further symbols according to DIN Report 4</b>		C	<b>3SB29 01-4AZ K3Y</b>	1 unit		C	<b>3SB29 01-5AZ K3Y</b>	1 unit	
Please add the short code "K3Y" to the Order No. and also specify the serial number in accordance with DIN Report 4.									
<b>Any inscription or symbol</b>		C	<b>3SB29 01-4AZ K0Y, K1Y, K2Y or K9Y</b>	1 unit		C	<b>3SB29 01-5AZ K0Y, K1Y, K2Y or K9Y</b>	1 unit	
1 line of text with up to 6 characters of 3 mm in height. Please add the appropriate order code onto the Order No. and specify the inscription or the symbol required.									

# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

Accessories and spare parts  
Insert labels and insert caps

Inscription	Symbols with number acc. to DIN Report 4	DT	Insert caps for indicator lights	PS*	Weight per PU, approx.
					
			Order No.		kg
<b>For self-inscription</b>					
Without inscription	-	B	<b>3SB29 01-7AA</b>	10 units	0.100
<b>With inscription</b>					
Fault	-	B	<b>3SB29 01-7AQ</b>	10 units	0.100
<b>Symbols</b>					
Pump		No. 695	B	<b>3SB29 01-7PD</b>	10 units 0.100
Release		No. 169	B	<b>3SB29 01-7QC</b>	10 units 0.100
Manual operation		No. 35	B	<b>3SB29 01-7QK</b>	10 units 0.100
<b>Customized inscription</b>					
<b>Further symbols according to DIN Report 4</b>			C	<b>3SB29 01-7AZ K3Y</b>	1 unit
Please add the short code "K3Y" to the Order No. and also specify the serial number in accordance with DIN Report 4.					
<b>Any inscription or symbol</b>			C	<b>3SB29 01-7AZ K0Y, K1Y, K2Y or K9Y</b>	1 unit
1 line of text with up to 6 characters of 3 mm in height. Please add the appropriate order code onto the Order No. and specify the inscription or the symbol required.					

### Options

#### Customized inscription

Labels and caps can be inscribed with text and symbols not listed in the ordering data. One line with up to 6 letters is possible, with 3 mm letter height.

Supplement the Order No. with the following Order Code:

- Text in upper/lowercase: **K0Y**
- Text in uppercase: **K1Y**
- Text in lowercase: **K2Y**
- Symbols to DIN Report 4: **K3Y**
- Inscription or symbols according to order form supplement: **K9Y**

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

For special symbols (short code K9Y), a CAD drawing in DXF format should be submitted.

#### Ordering examples

3SB29 01-4AZ

K1Y

Z = Pump

3SB29 01-4AZ

K3Y

573

# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

### Accessories and spare parts

#### Name plates

#### Overview

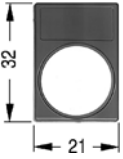






The name plates consist of a black molded-plastic label holder and labeling plate (silver with black letters) for sticking into the label holder.

Note insert dimensions!

#### Inscription

The lettering is lowercase with uppercase initial letters. The symbols, including those not listed in the catalog, are in accordance with DIN Report 4.

#### Selection and ordering data

Inscription	Symbols with number acc. to DIN Report 4	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Label holder</b>					
	<b>Label holder for labeling plate <sup>1)</sup></b>	B	<b>3SB29 02-0AB</b>	10 units	0.100
<b>Labeling plates self-adhesive 9.5 mm × 18.5 mm</b>					
	Blank	▶	<b>3SB29 01-2AA</b>	10 units	0.100
	On	B	<b>3SB29 01-2AB</b>	10 units	0.100
	Off	B	<b>3SB29 01-2AC</b>	10 units	0.100
	Open	B	<b>3SB29 01-2AD</b>	10 units	0.100
	Close	B	<b>3SB29 01-2AL</b>	10 units	0.100
	Forward	B	<b>3SB29 01-2AF</b>	10 units	0.100
	Backward	B	<b>3SB29 01-2AG</b>	10 units	0.100
	Fast	C	<b>3SB29 01-2AM</b>	10 units	0.100
	Slow	C	<b>3SB29 01-2AN</b>	10 units	0.100
	Operation	B	<b>3SB29 01-2AP</b>	10 units	0.100
	Fault	B	<b>3SB29 01-2AQ</b>	10 units	0.100
	Set up	B	<b>3SB29 01-2AR</b>	10 units	0.100
	On	B	<b>3SB29 01-2EB</b>	10 units	0.100
	Off	B	<b>3SB29 01-2EC</b>	10 units	0.100
	Start	B	<b>3SB29 01-2EL</b>	10 units	0.100
	Reset	B	<b>3SB29 01-2EM</b>	10 units	0.100
	Fault	B	<b>3SB29 01-2EW</b>	10 units	0.100
	Hand Auto	B	<b>3SB29 01-2BA</b>	10 units	0.100
Hand 0 Auto	B	<b>3SB29 01-2BE</b>	10 units	0.100	
Man 0 Auto	B	<b>3SB29 01-2ET</b>	10 units	0.100	
<b>Symbols</b>					
O (Off)		No. 15	B	<b>3SB29 01-2MB</b>	10 units 0.100
I (On)		No. 16	B	<b>3SB29 01-2MC</b>	10 units 0.100
O I (horizontal)		-	B	<b>3SB29 01-2MF</b>	10 units 0.100
Motion in direction of arrow		No. 28	C	<b>3SB29 01-2NA</b>	10 units 0.100
<b>Labels with labeling and symbols other than those listed above</b>			C	<b>3SB29 01-2XZ</b> <b>K0Y, K1Y, K2Y, K3Y or K9Y</b>	1 unit
2 lines of text with 11 characters each. Font size: 4 mm (1 line) or 3 mm (2 lines)					

<sup>1)</sup> Must not be used with the 3SB2...-1AC01 EMERGENCY-STOP mushroom pushbutton.

#### Options

##### Customized inscription

The labels can be inscribed with text and symbols not listed in the ordering data. Two lines of 11 characters are permitted with a font size of 4 mm (1 line) or 3 mm (2 lines).

Supplement the Order No. with the following Order Code:

- Text in upper/lowercase: **K0Y**
- Text in uppercase: **K1Y**
- Text in lowercase: **K2Y**
- Symbols with number to DIN Report 4: **K3Y**
- Inscription or symbols according to order form supplement: **K9Y**

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

For special symbols (short code K9Y), a CAD drawing in DXF format can be submitted.

##### Ordering examples

3SB29 01-2XZ  
K1Y  
Z = Pump

3SB29 01-2XZ  
K3Y  
573




# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

Accessories and spare parts  
Mounting parts and spare parts

### Selection and ordering data

Version	Lamp voltage	Color	DT	Order No.	PS*	Weight per PU, approx. kg	
	V	<b>Button, flat</b> for pushbuttons	black	B	<b>3SB29 10-0AB</b>	10 units	0.100
			red	B	<b>3SB29 10-0AC</b>	10 units	0.100
			yellow	B	<b>3SB29 10-0AD</b>	10 units	0.100
			green	B	<b>3SB29 10-0AE</b>	10 units	0.100
			blue	B	<b>3SB29 10-0AF</b>	10 units	0.100
			white	B	<b>3SB29 10-0AG</b>	10 units	0.100
			clear	B	<b>3SB29 10-0AH</b>	10 units	0.100
		<b>Button, flat</b> for illuminated pushbuttons	red	B	<b>3SB29 10-0CC</b>	10 units	0.100
			yellow	B	<b>3SB29 10-0CD</b>	10 units	0.100
			green	B	<b>3SB29 10-0CE</b>	10 units	0.100
			blue	B	<b>3SB29 10-0CF</b>	10 units	0.100
			white	B	<b>3SB29 10-0AG</b>	10 units	0.100
			clear	B	<b>3SB29 10-0AH</b>	10 units	0.100
			<b>Button, raised</b> for pushbuttons		black	B	<b>3SB29 10-0BB</b>
red	B	<b>3SB29 10-0BC</b>			1 unit	0.001	
yellow	B	<b>3SB29 10-0BD</b>			1 unit	0.001	
clear	B	<b>3SB29 10-0BH</b>			1 unit	0.001	
<b>Button, raised</b> for illuminated pushbuttons		red	B	<b>3SB29 10-0DC</b>	1 unit	0.001	
		yellow	B	<b>3SB29 10-0DD</b>	1 unit	0.001	
		clear	B	<b>3SB29 10-0BH</b>	1 unit	0.001	
<b>Screw lens</b> with concentric rings		red	▶	<b>3SB29 10-1AC</b>	10 units	0.100	
		yellow	▶	<b>3SB29 10-1AD</b>	10 units	0.100	
		green	▶	<b>3SB29 10-1AE</b>	10 units	0.100	
		blue	B	<b>3SB29 10-1AF</b>	10 units	0.100	
		white	▶	<b>3SB29 10-1AG</b>	10 units	0.100	
		clear	B	<b>3SB29 10-1AH</b>	10 units	0.100	
<b>Screw lens</b> smooth, for inscription with insert cap		red	B	<b>3SB29 10-1BC</b>	10 units	0.100	
		yellow	B	<b>3SB29 10-1BD</b>	10 units	0.100	
		green	B	<b>3SB29 10-1BE</b>	10 units	0.100	
		blue	B	<b>3SB29 10-1BF</b>	10 units	0.100	
		clear	B	<b>3SB29 10-1BH</b>	10 units	0.100	
<b>Incandescent lamp</b> Wedge base W2 x 4.6 d, 1.0 W	6		B	<b>3SB29 08-1AA</b>	10 units	0.100	
	12		B	<b>3SB29 08-1AB</b>	10 units	0.100	
	24		▶	<b>3SB29 08-1AC</b>	10 units	0.100	
	30		B	<b>3SB29 08-1AD</b>	10 units	0.100	
	48		B	<b>3SB29 08-1AE</b>	10 units	0.001	
	60		B	<b>3SB29 08-1AF</b>	10 units	0.001	
<b>LED, super-bright</b> Wedge base W2 x 4.6 d	DC 24	red	B	<b>3SB39 01-1SB</b>	10 units	0.001	
		yellow	B	<b>3SB39 01-1RB</b>	10 units	0.001	
		green	B	<b>3SB39 01-1TB</b>	10 units	0.001	
		white	B	<b>3SB39 01-1UB</b>	10 units	0.001	
		blue	B	<b>3SB29 08-1BD</b>	10 units	0.001	

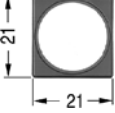











\* This quantity or a multiple thereof can be ordered

# Pushbuttons and Indicator Lights

## 16 mm Nominal Diameter

### Accessories and spare parts

#### Mounting parts and spare parts

	Version	DT	Order No.	PS*	Weight per PU, approx. kg
	<b>Single frame</b> for square design	▶	<b>3SB29 02-0AA</b>	10 units	0.100
	<b>Disassembly tool</b> for holders and lamp sockets with holders	▶	<b>3SB29 08-2AA</b>	1 unit	0.015
	<b>Lamp extractor</b> for lamps with sockets W2 x 4.6 d	▶	<b>3SB29 08-2AB</b>	250 units	0.003
	<b>Mounting tool</b> for buttons and screw lenses	▶	<b>3SB29 08-2AC</b>	1 unit	0.012
	<b>Name plate, yellow, Ø 50 mm,</b> as backing plate for EMERGENCY-STOP, self-adhesive	▶	<b>3SB29 08-2AF</b>	1 unit	0.001
	• blank	▶	<b>3SB29 08-2AG</b>	1 unit	0.001
	• with inscription "NOT-AUS"				
	<b>Key</b> for CES key-operated switch, lock No. SB2	B	<b>3SB29 08-2AJ</b>	1 unit	0.004
	<b>Blanking plug</b> black molded plastic (IP 65 degree of protection)	B	<b>3SB29 08-3AA</b>	1 unit	0.005
	<b>Protective cap, clear</b> silicone, for pushbuttons with flat and raised buttons	B	<b>3SB29 08-3AB</b>	1 unit	0.002
	<b>Plug-in sleeve</b> for flat connectors 2.8 x 0.8 mm, cross-section 0.5 ... 1.5 mm <sup>2</sup>	▶	<b>3SB29 08-8AA</b>	250 units	0.029
	<b>Insulation sleeve</b> for flat connectors, connection from the front	▶	<b>3SB29 08-8AB</b>	250 units	0.029
	<b>Complete connector</b> <sup>1)</sup> for connecting switch blocks and lampholders (up to 10 connections). Provides safety from finger-touch acc. to DIN VDE 0106 Part 100 and VBG 4.	▶	<b>3SB29 08-8AD</b>	1 unit	0.005
	<b>Plug-in sleeve</b> with locating spring for latching in complete connector	B	<b>3SB29 08-8AE</b>	10 units	0.030
	<b>Crimping pliers KRBC 0560</b> for plug-in sleeves (both designs)		Lapp GmbH Kabelwerk Gewerbestraße 70565 Stuttgart Tel: 0049 7 11/78 38-02 Fax: 0049 7 11/78 38-401 (Order No. 61790950)		

1) Required plug-in sleeves must be ordered separately.

# Pushbuttons and Indicator Lights

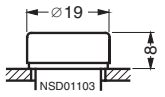
## 16 mm Nominal Diameter

Project planning aids

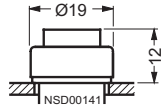
### Dimension drawings

#### Actuators

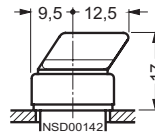
**Pushbutton or illuminated pushbutton with flat pushbutton**



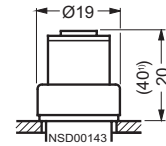
**Pushbutton or illuminated pushbuttons with raised button**



**Selector switch**

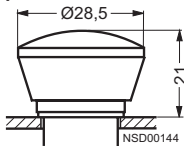


**CES key-operated switch**

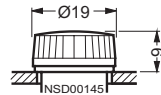


\* with key

**EMERGENCY-STOP mushroom pushbuttons**

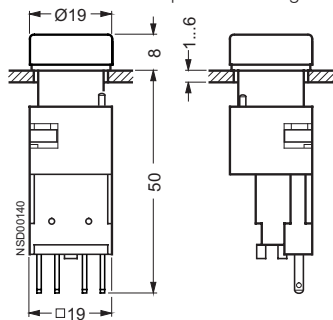


**Indicator light**



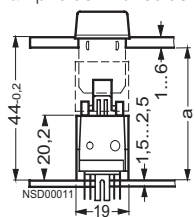
#### Switch blocks with tab connection

**Pushbutton and switch block with holder for front panel mounting**



#### Switch blocks with soldering pins for use on printed circuit boards

**Illuminated pushbutton with switch block and lampholder with solder pins**



Length **a** of spacer bolts  $a = 44^{+0.2}$  minus front plate thickness.

When using name plates, the length **a** is reduced by 0.8 mm.

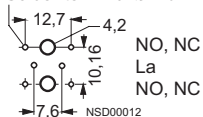
To avoid bending of the PCB when the actuator is operated, sufficient spacers must be provided spaced as shown in the table below:

PCB thickness	Max. distance between spacers
1.5 mm	80 mm
2.5 mm	150 mm
	generally 50 mm

When using EMERGENCY-STOP buttons  
These details are based on epoxy resin glass fiber mat.

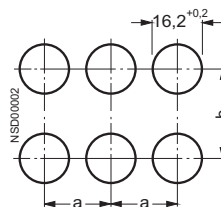
**Solder pin spacing**

Solder terminal  $\varnothing 1.3^{+0.1}$



NO, NC  
La  
NO, NC

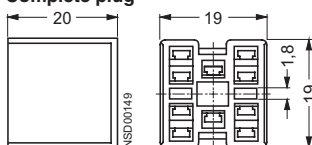
#### Mounting dimensions



Minimum distance	a	b
Round design	19	19
Square design without labeling plate	21	21
Round and square designs with labeling plates	21	32
For 2 selector switches and 3 switch positions, maintained contact, side by side	21	21

#### Accessories

**Complete plug**



# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### General data

#### Overview

SIGNUM is a new range of plastic and metal control devices for front plate mounting and rear wire connection.

SIGNUM is of modern industrial design with a very flat construction and can be installed rapidly by a single person.

In addition, SIGNUM Metallic is designed for the world market with a high degree of protection according to IP67 and NEMA 4.

#### Standards

IEC 60947-1, EN 60947-1 (VDE 0660 Part 100).

IEC 60947-5-1, EN 60947-5-1 (VDE 0660 Part 200).

#### Design

SIGNUM can be supplied

- In molded plastic in a flat, round and square design, as well as
- In metal in a round design.

A combination of membrane keyboards and 3SB3 devices in plastic supports the flat appearance. The flat construction makes cleaning easy.

The operating surfaces of the pushbuttons and indicator lights are concave. The lenses of the indicator lights are convex.

#### AS-Interface solutions

The SIGNUM 3SB3 control and signaling devices can be connected to the AS-Interface communication system quickly and safely with the help of various solutions.

The following solutions are available:

- AS-Interface enclosure (with 1 to 6 command points),
- AS-Interface EMERGENCY-STOP,
- AS-Interface front panel module (for 4 command points).

For selection and ordering data as well as detailed information, see Catalog IK PI.

#### Design

One command point comprises an actuating element or lens assembly in front of the control panel as well as a holder for fixing and switch blocks and/or lampholder behind the control panel.

The holder for the round version can be turned and can therefore be used for control panel depths of 1 to 4 mm or 3 to 6 mm.

The control panel depth of 1 to 4 mm can be compensated with the holder for the square design.

The normal version can be fitted with two switch blocks.

When three switch blocks or one lampholder and two switch blocks are required, an additional holder must be plugged into the operating element. For actuating a central switch block when using a selector switch, key-operated switch and on-off push-button, a holder with pressure supports is required.

Complete units are offered for the most commonly used applications.

#### Holder

The holder is set to a switchboard thickness of 1 to 4 mm when delivered and is placed in the direction of the arrow ↑ 1–4 mm ↑ on the actuator/indicator from the back. The fixing screw is located underneath, on the right.

For a switchboard thickness of 3 to 6 mm, the holder is reversed and mounted in the direction of the arrow at ↑ 3–6 mm ↑ and the fixing screw is located on the upper right. In this case, the fixing screw must be rotated anticlockwise to its limit before mounting the holder.

When label holders, protective caps or similar accessories are used, the greatest permissible panel thickness must be reduced by wall thickness of the accessory component.

#### Switch blocks and lampholders

The switch blocks are fitted with a slow-action contact (1 NO contact or 1 NC contact) with double operating contacts. These ensure a high switching reliability even with small voltages and currents, such as 5 V/1 mA. They are suitable for use in solid-state systems as well as conventional controls.

The switch contacts of the NC contact are positively driven.

For illuminated elements, lampholders with an integrated LED or with a base for replaceable bulbs can be supplied.

Switch blocks and lampholders feature terminal designations in accordance with EN 50013.

#### Mounting

SIGNUM devices are easily and rapidly connected:

- Actuators or indicator lights are positioned in the opening of the front panel from the front
- Position the holder from the rear
- Tighten the screw on the holder
- Snap on the switch block or the lampholder directly onto the operating mechanism from the back

#### Terminals

The following types are available

- Screw terminal connection
- Spring-loaded terminals
- Solder terminals (0.8 mm × 0.8 mm solder pins)

The devices with screw connection are designed with the SIGUT connection system. The open terminals, screws that cannot be lost, funnel-shaped wiring openings and screwdriver fed openings save time when connecting and make it possible that motorized screwdrivers are used.

The devices with spring-loaded terminals can be connected quickly; and when single-pole blocks are used, the command points can be butt-mounted.

#### Inscription

Direct inscription using a laser or by means of insert labels or name plates.

#### Enclosure

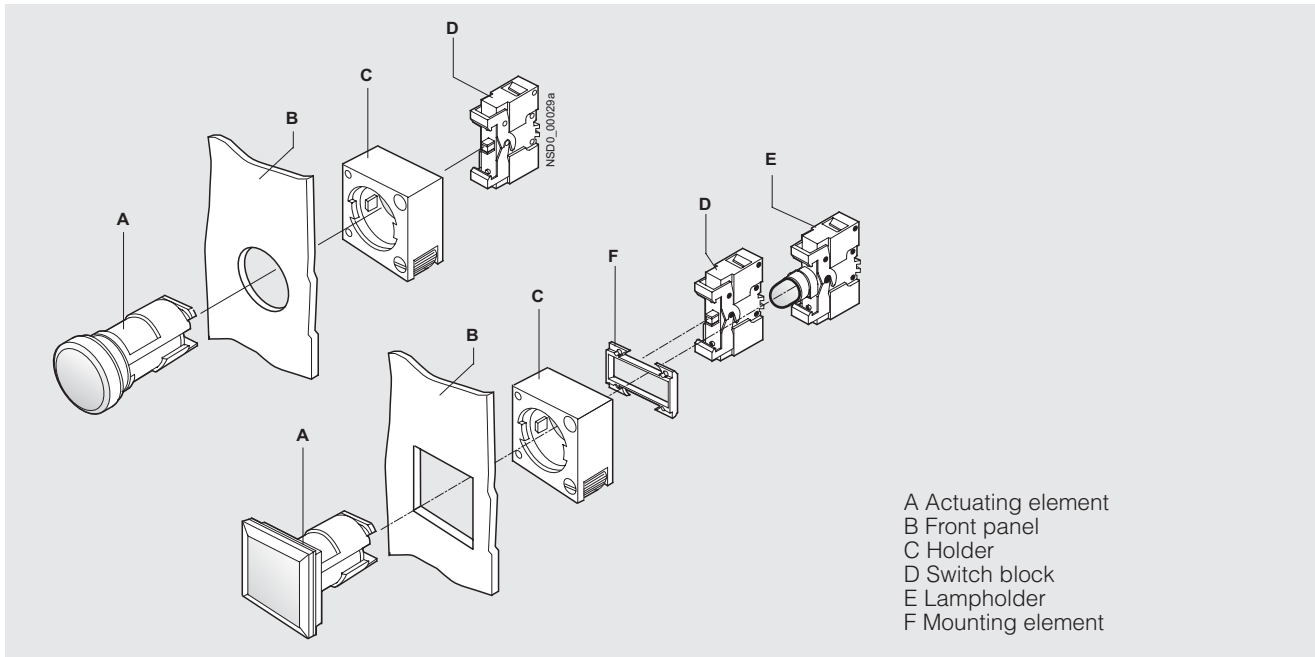
Plastic enclosures with 1, 2, 3, 4 or 6 actuators are available for the round model. Enclosures with more than 6 actuators can be supplied upon request. They are suitable for the round and square models.

# Pushbuttons and Indicator Lights

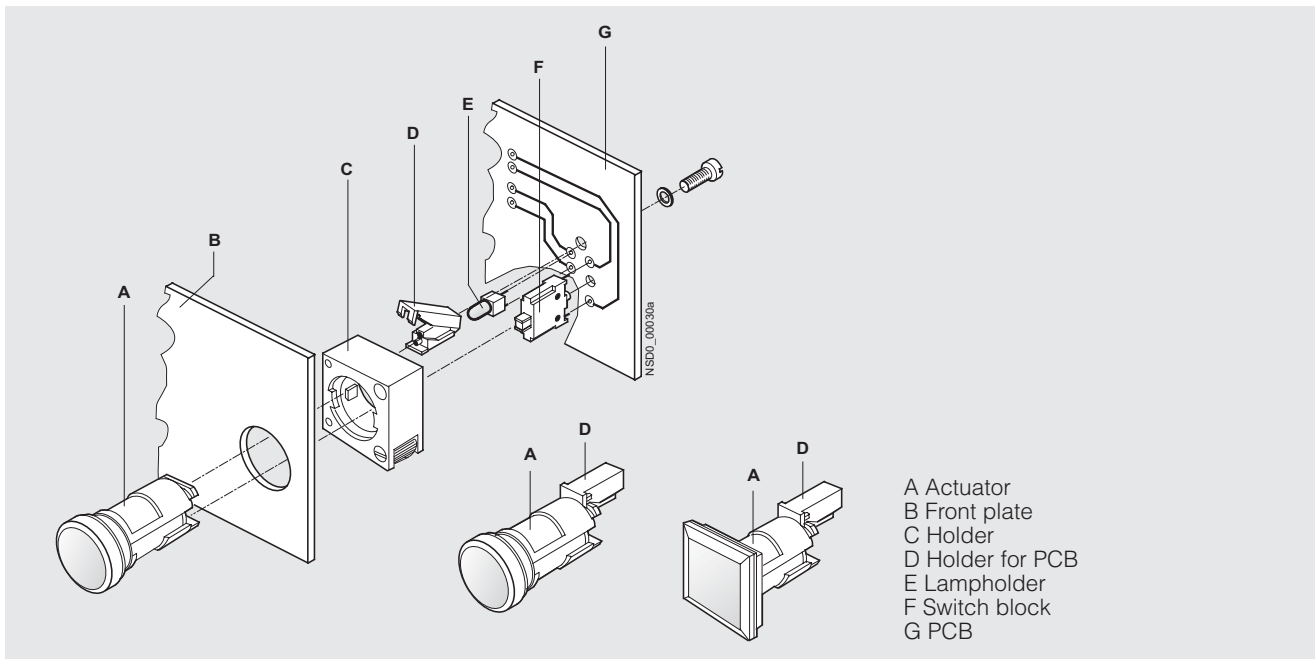
## SIGNUM 22 mm Nominal Diameter

General data

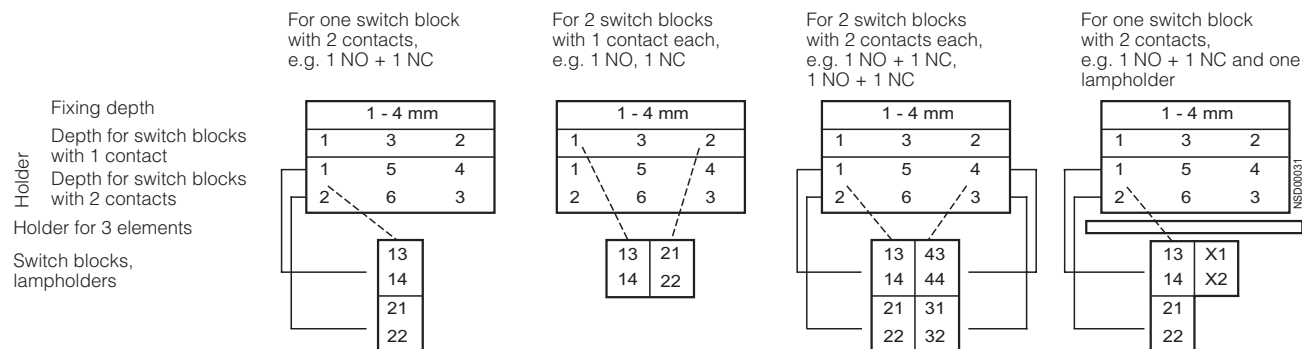
### Front plate mounting



### Used on printed-circuit boards



### Contact assignment



# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### General data

#### Technical specifications

Data acc. to IEC/EN 60947-5-1, IEC/EN 60947-5-5	
<b>Rated insulation voltage <math>U_i</math></b> For pollution severity according to IEC 60947-1	Class 3
• Components with screw connection and spring-loaded terminals	400 V
• Components with solder pins	250 V
<b>Rated impulse withstand voltage <math>U_{imp}</math></b>	
• Screw connection, spring-loaded terminals	6 kV
• Soldered connection	4 kV
<b>Conventional free-air thermal current <math>I_{th}</math></b>	10 A
<b>Rated operating current <math>I_e</math> at rated operating voltage <math>U_e</math></b>	
• Alternating current 50/60 Hz, AC-12 - Screw connection and spring-loaded terminals / solder pins	At $U_e$ <span style="float: right;"><math>I_e</math></span> 24 V 10 A / 10 A 48 V 10 A / 10 A 110 V 10 A / 10 A 230 V 10 A / 10 A 400 V 10 A / –
• Alternating current 50/60 Hz, AC-15 - Screw connection and spring-loaded terminals / solder pins	At $U_e$ <span style="float: right;"><math>I_e</math></span> 24 V 6 A / 4 A 48 V 6 A / 4 A 110 V 6 A / 4 A 230 V 6 A / 4 A 400 V 3 A / –
• Direct current DC-12 - Screw connection and spring-loaded terminals and solder pins	At $U_e$ <span style="float: right;"><math>I_e</math></span> 24 V 10 A 48 V 5 A 110 V 2.5 A 230 V 1 A
• Direct current DC-13 - Screw connection and spring-loaded terminals and solder pins	At $U_e$ <span style="float: right;"><math>I_e</math></span> 24 V 3 A 48 V 1.5 A 110 V 0.7 A 230 V 0.3 A
<b>Contact stability</b> Test voltage/test current	5 V/1 mA
<b>Short-circuit protection</b> completely weld-free according to IEC 60947-5-1	
• DIAZED fuse links, operational class gL/gG	10 A TDz, 16 A Dz
• Miniature circuit-breaker with C characteristic according to IEC 60898 (VDE 0641)	10 A
<b>Mechanical endurance</b>	
• Pushbuttons and switch blocks	$10 \times 10^6$ operating cycles
• Actuators, rotary or maintained contact	$3 \times 10^5$ operating cycles
• Illuminated pushbuttons	$3 \times 10^6$ operating cycles
<b>Electrical endurance</b>	
• For operational class AC-15 with 3RT10 15 to 3RT10 26 contactors	$10 \times 10^6$ operating cycles
• With operational class DC-12, DC-13	The endurance life of the contacts is not only dependent on the breaking current but also on the voltage, the inductivity of the current circuit and the switching speed.
<b>Operating frequency</b>	1000 make-break operations per hour
<b>Climatic withstand capability</b> acc. to DIN 50017	Climate-proof KTW24; suitable for marine applications
<b>Ambient temperature</b>	
• During operation, non-illuminated devices and complete with LED	–25 to +70 °C
• During operation, devices with incandescent lamp	–25 to +60 °C
• During storage, transport	–40 to +80 °C
<b>Degree of protection</b> acc. to IEC 60529 (VDE 0470 Part 1)	
• Connection of switch blocks and lampholders behind the front panel	IP20
• Contact chambers of the switch blocks behind the front panel	IP40
• Plastic actuators and indicators	IP66; IP67 with protective caps
• Plastic on-off pushbuttons	IP65
• Metal actuators and indicators	IP67 and NEMA Type 4
• Molded-plastic enclosure	IP65
• Metal enclosure	IP67 and NEMA Type 4
<b>Lampholders</b>	
• Screw connection, spring-loaded terminals	For lamps with BA 9s base; incandescent, glow and LED lamps
• Soldered connection	For lamps with wedge base W2 x 4.6 d; glow and LED lamps

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### General data



Data acc. to IEC/EN 60947-5-1, IEC/EN 60947-5-5	
<b>Conductor cross-sections</b>	
<ul style="list-style-type: none"> <li>• Screw connection               <ul style="list-style-type: none"> <li>- Finely stranded, with end sleeves to DIN 46228</li> <li>- Solid</li> <li>- Solid with end sleeves to DIN 46228</li> <li>- Solid or stranded</li> </ul> </li> <li>• Spring-loaded terminal               <ul style="list-style-type: none"> <li>- Solid or stranded, without end sleeves</li> <li>- Finely stranded, with end sleeves to DIN 46228</li> <li>- Solid or stranded</li> </ul> </li> <li>• Soldered connection</li> </ul>	<ul style="list-style-type: none"> <li><math>2 \times (0.5 \dots 1.5) \text{ mm}^2</math></li> <li><math>2 \times (1 \dots 2.5) \text{ mm}^2</math></li> <li><math>2 \times (0.5 \dots 0.75) \text{ mm}^2</math></li> <li><math>2 \times \text{AWG } 18 \dots 14</math></li> <li><math>2 \times (0.25 \dots 1.5) \text{ mm}^2</math></li> <li><math>2 \times (0.25 \dots 0.75) \text{ mm}^2</math></li> <li><math>2 \times \text{AWG } 24 \dots 16</math></li> <li>Solder pins <math>0.8 \text{ mm} \times 0.8 \text{ mm}</math></li> </ul>
<b>Tightening torque</b>	
<ul style="list-style-type: none"> <li>• Screw on holder</li> <li>• Terminal screws</li> </ul>	<ul style="list-style-type: none"> <li>max. 1 Nm</li> <li>0.8 Nm</li> </ul>
<b>Terminal designations</b> to EN 50013	Digit on the holder, function digit on the switch block
<b>Device identification</b>	With snap-on label
<b>Safety measures</b>	
<ul style="list-style-type: none"> <li>• Plastic</li> <li>• Metal version</li> </ul>	<p>Safety requirements are met automatically when the actuators and lens assemblies are mounted on metal front plates and enclosures.</p> <p>When mounted in insulated enclosures, the "protective insulation" safety requirements are met.</p> <p>Grounding is necessary for operation on protective extra-low voltage.</p>
<b>Touch protection</b> (screw-type, spring-loaded terminals)	Finger-safe to VDE 0660, Part 514 and BGV A2
<b>Shock resistance</b> according to IEC 60068, Part 2-27	
For shock duration of	11 ms
For shock type	Half-sine
<ul style="list-style-type: none"> <li>• Devices without incandescent lamp</li> <li>• Devices with incandescent lamp</li> </ul>	<ul style="list-style-type: none"> <li><math>\leq 50 \text{ g}</math></li> <li><math>\leq 30 \text{ g}</math></li> </ul>
<b>Vibration resistance</b> according to IEC 60068, Part 2-6	
For frequency of	20 ... 200 Hz
<ul style="list-style-type: none"> <li>• Acceleration</li> </ul>	5 g
Data acc. to UL and CSA	
<b>Rated voltage</b>	
<ul style="list-style-type: none"> <li>• Switch blocks</li> <li>• Lampholders               <ul style="list-style-type: none"> <li>- With lamp with BA 9s base</li> <li>- With lamp with wedge base</li> <li>- With integrated LED</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>AC 300 V</li> <li>AC 125 V; 2.5 W</li> <li>AC 60 V; 1 W</li> <li>AC/DC 24 V, AC 110 V, AC 230 V</li> </ul>
<b>Continuous current</b>	10 A
<b>Switching capacity</b>	A 300; R 300; A 600 same polarity

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Complete unit combinations

### Selection and ordering data

Version	Rated voltage for lamp V	Color of actuator	Contacts for front plate mounting	DT	Order No.	PS*	Weight per PU, approx. kg
 Pushbutton with flat button		black	1 NO	▶	<b>3SB32 02-0AA11</b>	1 unit	0.040
		black	1 NC	B	<b>3SB32 03-0AA11</b>	1 unit	0.040
		red	1 NC	▶	<b>3SB32 03-0AA21</b>	1 unit	0.040
		yellow	1 NO	B	<b>3SB32 02-0AA31</b>	1 unit	0.040
		green	1 NO	▶	<b>3SB32 02-0AA41</b>	1 unit	0.040
		blue	1 NO	B	<b>3SB32 02-0AA51</b>	1 unit	0.040
		white	1 NO	▶	<b>3SB32 02-0AA61</b>	1 unit	0.040
		black	1 NO + 1 NC	B	<b>3SB32 01-0AA11</b>	1 unit	0.047
		red	1 NO + 1 NC	B	<b>3SB32 01-0AA21</b>	1 unit	0.047
		yellow	1 NO + 1 NC	B	<b>3SB32 01-0AA31</b>	1 unit	0.047
		green	1 NO + 1 NC	B	<b>3SB32 01-0AA41</b>	1 unit	0.047
		blue	1 NO + 1 NC	B	<b>3SB32 01-0AA51</b>	1 unit	0.047
		white	1 NO + 1 NC	B	<b>3SB32 01-0AA61</b>	1 unit	0.047
		 Illuminated pushbutton with flat button	AC/DC 24	red <sup>1)</sup>	1 NC	▶	<b>3SB32 46-0AA21</b>
yellow <sup>1)</sup>	1 NO			B	<b>3SB32 45-0AA31</b>	1 unit	0.050
green <sup>1)</sup>	1 NO			▶	<b>3SB32 45-0AA41</b>	1 unit	0.051
blue <sup>1)</sup>	1 NO			B	<b>3SB32 45-0AA51</b>	1 unit	0.050
white	1 NO			B	<b>3SB32 45-0AA61</b>	1 unit	0.051
clear <sup>1)</sup>	1 NO			▶	<b>3SB32 45-0AA71</b>	1 unit	0.051
AC/DC 24	red <sup>1)</sup>		1 NO + 1 NC	B	<b>3SB32 47-0AA21</b>	1 unit	0.058
	yellow <sup>1)</sup>		1 NO + 1 NC	B	<b>3SB32 47-0AA31</b>	1 unit	0.058
	green <sup>1)</sup>		1 NO + 1 NC	B	<b>3SB32 47-0AA41</b>	1 unit	0.058
	blue <sup>1)</sup>		1 NO + 1 NC	B	<b>3SB32 47-0AA51</b>	1 unit	0.058
	white		1 NO + 1 NC	B	<b>3SB32 47-0AA61</b>	1 unit	0.057
	clear <sup>1)</sup>		1 NO + 1 NC	B	<b>3SB32 47-0AA71</b>	1 unit	0.058
AC 110	red <sup>1)</sup>		1 NC	B	<b>3SB32 50-0AA21</b>	1 unit	0.050
	yellow <sup>1)</sup>		1 NO	B	<b>3SB32 57-0AA31</b>	1 unit	0.051
	green <sup>1)</sup>		1 NO	B	<b>3SB32 57-0AA41</b>	1 unit	0.051
	blue <sup>1)</sup>		1 NO	B	<b>3SB32 57-0AA51</b>	1 unit	0.051
	white		1 NO	B	<b>3SB32 57-0AA61</b>	1 unit	0.051
	clear <sup>1)</sup>		1 NO	B	<b>3SB32 57-0AA71</b>	1 unit	0.050
AC 110	red <sup>1)</sup>		1 NO + 1 NC	B	<b>3SB32 51-0AA21</b>	1 unit	0.058
	yellow <sup>1)</sup>		1 NO + 1 NC	B	<b>3SB32 51-0AA31</b>	1 unit	0.058
	green <sup>1)</sup>		1 NO + 1 NC	B	<b>3SB32 51-0AA41</b>	1 unit	0.058
	blue <sup>1)</sup>		1 NO + 1 NC	C	<b>3SB32 51-0AA51</b>	1 unit	0.060
	white		1 NO + 1 NC	B	<b>3SB32 51-0AA61</b>	1 unit	0.058
	clear <sup>1)</sup>		1 NO + 1 NC	B	<b>3SB32 51-0AA71</b>	1 unit	0.058
AC 230	red <sup>1)</sup>		1 NC	▶	<b>3SB32 54-0AA21</b>	1 unit	0.051
	yellow <sup>1)</sup>		1 NO	B	<b>3SB32 53-0AA31</b>	1 unit	0.051
	green <sup>1)</sup>		1 NO	▶	<b>3SB32 53-0AA41</b>	1 unit	0.052
	blue <sup>1)</sup>		1 NO	B	<b>3SB32 53-0AA51</b>	1 unit	0.051
	white		1 NO	B	<b>3SB32 53-0AA61</b>	1 unit	0.051
	clear <sup>1)</sup>		1 NO	▶	<b>3SB32 53-0AA71</b>	1 unit	0.052
AC 230	red <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB32 55-0AA21</b>	1 unit	0.058	
	yellow <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB32 55-0AA31</b>	1 unit	0.058	
	green <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB32 55-0AA41</b>	1 unit	0.058	
	blue <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB32 55-0AA51</b>	1 unit	0.058	
	white	1 NO + 1 NC	B	<b>3SB32 55-0AA61</b>	1 unit	0.058	
	clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB32 55-0AA71</b>	1 unit	0.058	
<b>Illuminated pushbutton with flat button with BA 9s lampholder, without lamp</b>		red <sup>1)</sup>	1 NC	B	<b>3SB32 07-0AA21</b>	1 unit	0.050
		yellow <sup>1)</sup>	1 NO	B	<b>3SB32 06-0AA31</b>	1 unit	0.050
		green <sup>1)</sup>	1 NO	B	<b>3SB32 06-0AA41</b>	1 unit	0.050
		blue <sup>1)</sup>	1 NO	B	<b>3SB32 06-0AA51</b>	1 unit	0.050
		white	1 NO	B	<b>3SB32 06-0AA61</b>	1 unit	0.050
		clear <sup>1)</sup>	1 NO	B	<b>3SB32 06-0AA71</b>	1 unit	0.050
		red <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB32 05-0AA21</b>	1 unit	0.057
		yellow <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB32 05-0AA31</b>	1 unit	0.056
		green <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB32 05-0AA41</b>	1 unit	0.057
		blue <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB32 05-0AA51</b>	1 unit	0.056
		white	1 NO + 1 NC	B	<b>3SB32 05-0AA61</b>	1 unit	0.057
		clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB32 05-0AA71</b>	1 unit	0.057

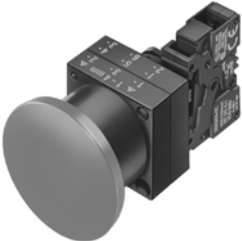
1) Inscription is possible by inserting a label.



# Pushbuttons and Indicator Lights


## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Complete unit combinations

Version	Color of actuator	Contacts for front plate mounting	DT	Order No.	PS*	Weight per PU, approx. kg
 <p><b>Mushroom push-pull button, Ø 40 mm, latching</b> pull to unlatch</p>	red	1 NC 1 NO + 1 NC	▶ B	▶ <b>3SB32 03-1CA21</b>	1 unit	0.052
				B <b>3SB32 01-1CA21</b>	1 unit	0.058

Mushroom push-pull-button





**EMERGENCY-STOP control devices according to EN 418 with yellow name plate, Ø 80 mm, labeled.**  
Can also be used with 3TK28 contactor safety combinations (see Section 11)

 <p><b>Mushroom pushbutton, Ø 40 mm, with positive latching function</b> rotate to unlatch</p>	red	1 NC 1 NO + 1 NC	▶ <sup>1)</sup> B	▶ <b>3SB32 03-1HA20</b>	1 unit	0.072
				B <sup>1)</sup> <b>3SB32 01-1HA20</b>	1 unit	0.078

EMERGENCY-STOP mushroom pushbutton



1) Positive opening according to IEC 60947-5-1, Appendix K.

Version	Color of actuator / Lock No.	Contacts for front plate mounting	DT	Order No.	PS*	Weight per PU, approx. kg
 <p><b>Selector switch, 2 switch positions</b> switching sequence O-I 50° operating angle latching</p>	black	1 NO 1 NO + 1 NC	▶ B	▶ <b>3SB32 02-2KA11</b>	1 unit	0.044
				B <b>3SB32 01-2KA11</b>	1 unit	0.051
 <p><b>Selector switches, 3 switch positions</b> switching sequence I-O-II 2 × 50° operating angle latching</p>	black	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	▶ B	▶ <b>3SB32 10-2DA11</b>	1 unit	0.054
	black			B <b>3SB32 08-2DA11</b>	1 unit	0.067
 <p><b>Selector switches, 3 switch positions</b> switching sequence I-O-II 2 × 50° operating angle momentary contact type</p>	black	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	B	▶ <b>3SB32 10-2EA11</b>	1 unit	0.054
	black			B <b>3SB32 08-2EA11</b>	1 unit	0.068
 <p><b>Key-operated switch, RONIS, flat, 2 switch positions</b> switching sequence O-I 50° operating angle latching</p>	SB 30	1 NO 1 NO + 1 NC	▶ B	▶ <b>3SB32 02-4AD11</b>	1 unit	0.070
				B <b>3SB32 01-4AD11</b>	1 unit	0.076






RONIS key-operated switch

\* This quantity or a multiple thereof can be ordered

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Complete unit combinations

Version	Rated voltage of lamp V	Color of lens	DT	Order No.	PS*	Weight per PU, approx. kg
 <p>Indicator light with smooth lens</p>	AC/DC 24	red	▶	<b>3SB32 44-6AA20</b>	1 unit	0.038
		yellow	B	<b>3SB32 44-6AA30</b>	1 unit	0.038
		green	▶	<b>3SB32 44-6AA40</b>	1 unit	0.038
		blue	B	<b>3SB32 44-6AA50</b>	1 unit	0.038
		white	B	<b>3SB32 44-6AA60</b>	1 unit	0.038
		clear	▶	<b>3SB32 44-6AA70</b>	1 unit	0.038
	AC 110	red	B	<b>3SB32 48-6AA20</b>	1 unit	0.039
		yellow	B	<b>3SB32 48-6AA30</b>	1 unit	0.038
		green	B	<b>3SB32 48-6AA40</b>	1 unit	0.039
		blue	B	<b>3SB32 48-6AA50</b>	1 unit	0.038
		white	B	<b>3SB32 48-6AA60</b>	1 unit	0.038
		clear	B	<b>3SB32 48-6AA70</b>	1 unit	0.038
	AC 230	red	▶	<b>3SB32 52-6AA20</b>	1 unit	0.039
		yellow	B	<b>3SB32 52-6AA30</b>	1 unit	0.040
		green	▶	<b>3SB32 52-6AA40</b>	1 unit	0.039
		blue	B	<b>3SB32 52-6AA50</b>	1 unit	0.039
		white	B	<b>3SB32 52-6AA60</b>	1 unit	0.039
		clear	▶	<b>3SB32 52-6AA70</b>	1 unit	0.039
Indicator light with smooth lens with BA 9s lampholder, without lamp		red	B	<b>3SB32 04-6AA20</b>	1 unit	0.037
		yellow	B	<b>3SB32 04-6AA30</b>	1 unit	0.037
		green	B	<b>3SB32 04-6AA40</b>	1 unit	0.037
		blue	B	<b>3SB32 04-6AA50</b>	1 unit	0.037
		white	B	<b>3SB32 04-6AA60</b>	1 unit	0.037
		clear	B	<b>3SB32 04-6AA70</b>	1 unit	0.037
 <p>Indicator light with lens with concentric rings</p>	AC/DC 24	red	▶	<b>3SB32 44-6BA20</b>	1 unit	0.038
		yellow	B	<b>3SB32 44-6BA30</b>	1 unit	0.038
		green	▶	<b>3SB32 44-6BA40</b>	1 unit	0.038
		blue	B	<b>3SB32 44-6BA50</b>	1 unit	0.038
		white	B	<b>3SB32 44-6BA60</b>	1 unit	0.038
		clear	▶	<b>3SB32 44-6BA70</b>	1 unit	0.038
	AC 110	red	B	<b>3SB32 48-6BA20</b>	1 unit	0.038
		yellow	B	<b>3SB32 48-6BA30</b>	1 unit	0.038
		green	B	<b>3SB32 48-6BA40</b>	1 unit	0.038
		blue	B	<b>3SB32 48-6BA50</b>	1 unit	0.037
		white	B	<b>3SB32 48-6BA60</b>	1 unit	0.038
		clear	B	<b>3SB32 48-6BA70</b>	1 unit	0.038
	AC 230	red	▶	<b>3SB32 52-6BA20</b>	1 unit	0.039
		yellow	B	<b>3SB32 52-6BA30</b>	1 unit	0.039
		green	▶	<b>3SB32 52-6BA40</b>	1 unit	0.039
		blue	B	<b>3SB32 52-6BA50</b>	1 unit	0.039
		white	B	<b>3SB32 52-6BA60</b>	1 unit	0.039
		clear	▶	<b>3SB32 52-6BA70</b>	1 unit	0.040
Indicator light with lens with concentric rings with BA 9s lampholder without lamp		red	B	<b>3SB32 04-6BA20</b>	1 unit	0.038
		yellow	B	<b>3SB32 04-6BA30</b>	1 unit	0.037
		green	B	<b>3SB32 04-6BA40</b>	1 unit	0.038
		blue	B	<b>3SB32 04-6BA50</b>	1 unit	0.038
		white	B	<b>3SB32 04-6BA60</b>	1 unit	0.037
		clear	B	<b>3SB32 04-6BA70</b>	1 unit	0.037
 <p>Acoustic signal device</p>	AC/DC 24 continuous sound 2.4 kHz min. operating current 10 mA, AC/DC 115 AC/DC 230 min. sound pressure 80 dB/10 cm	black	B	<b>3SB32 33-7BA10</b>	1 unit	0.042
			B	<b>3SB32 34-7BA10</b>	1 unit	0.043
			B	<b>3SB32 35-7BA10</b>	1 unit	0.042
 <p>Operating mechanism for potentiometer</p>	<b>Operating mechanism for potentiometer</b> IP65 <sup>1) 2)</sup>		B	<b>3SB10 00-7CH07</b>	1 unit	0.030
 <p>Pushbutton with 12 mm stroke</p>	<b>Pushbutton with extended stroke</b> (12 mm), IP65 <sup>1)</sup> for operating relays	black	B	<b>3SB30 00-0EA11</b>	1 unit	0.021

1) Mounting in 3SB38 enclosure is not possible.

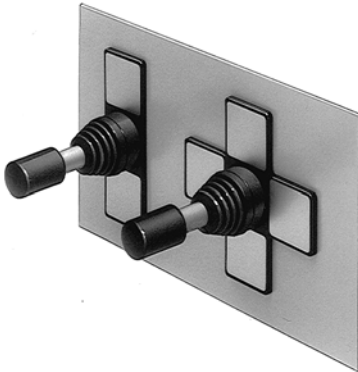
2) The potentiometer is not included in the scope of supply.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Joystick switch, complete

### Overview



### Application

Joystick switches control auxiliary circuits permitting movements in various directions of machines and equipment.

The switches are designed for front panel mounting. They are climate-proof.

### Technical specifications

Standards: IEC 60947-5-1 (VDE 0660 Part 200).

Rated operating currents for DC according to table:

Type	3SB1201-7	
Operational class	DC-12	DC-13
<b>Rated operating current <math>I_e</math> at rated operating voltage <math>U_e</math></b>		
• At DC 24 V	10	5
• At DC 110 V	2	0.5
• At DC 230 V	0.5	0.2

### Design

The 3SB14 00-0J switch block is used, which due to its depth cannot be built into enclosures.

Switches are available

- With 2 or 4 positions,
- Latching or momentary contact type,
- With or without mechanical interlocking.

### Version with mechanical locking in the O position

The switch is unlatched with the unlatching selector switch at the front of the actuating lever.

### Inscription

For labeling, a name plate is available, consisting of a black, molded-plastic label holder and two or four adhesive labeling plates of 27 mm x 27 mm in size. They can be supplied with and without inscription.

Note insert dimensions!

The lettering has uppercase initial letters. 5 lines with 11 letters each are possible, engraved lettering.

For an inscription, the following order codes must be appended to the Order No.:

"K0Y" for upper/lowercase

"K1Y" for uppercase

"K2Y" for lowercase

"K3Y" for symbol acc. to DIN Report 4

"K9Y" for inscription acc. to order form supplement

When ordering, specify the required inscription in plain text in addition to the order number and order code. For inscriptions in languages other than German, give the exact spelling and specify the language.

For symbols, in addition to the short code, specify the consecutive No. according to DIN Report 4.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Joystick switch, complete

### Selection and ordering data

Version	Contact travel	DT	Order No. For Order No. suffixes below	PS*	Weight per PU, approx.
	<input type="checkbox"/> contact closed <input type="checkbox"/> contact open				kg

### Joystick switches, complete

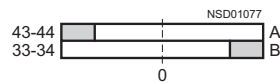


#### 2 switch positions, 1 NO per direction

Horizontal, momentary contact type



NSD01079



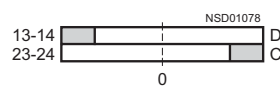
**Without** mechanical locking in the O position  
**With** mechanical locking in the O position

B **3SB12 01-7DV..** 1 unit 0.065  
B **3SB12 01-7DW..** 1 unit 0.065

Vertical, momentary contact type



NSD01080



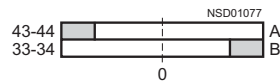
**Without** mechanical locking in the O position  
**With** mechanical locking in the O position

B **3SB12 01-7FV..** 1 unit 0.065  
B **3SB12 01-7FW..** 1 unit 0.065

Horizontal, latching



NSD01079



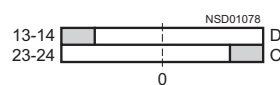
**Without** mechanical locking in the O position  
**With** mechanical locking in the O position

B **3SB12 01-7EV..** 1 unit 0.065  
B **3SB12 01-7EW..** 1 unit 0.065

Vertical, latching



NSD01080



**Without** mechanical locking in the O position  
**With** mechanical locking in the O position

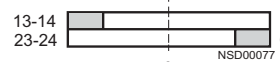
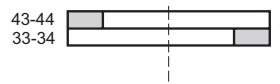
B **3SB12 01-7GV..** 1 unit 0.065  
B **3SB12 01-7GW..** 1 unit 0.065

#### 4 switch positions, 1 NO per direction

Momentary-contact type



NSD00076



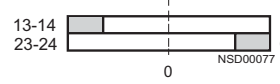
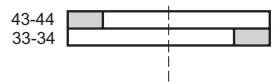
**Without** mechanical locking in the O position  
**With** mechanical locking in the O position

B **3SB12 08-7JV..** 1 unit 0.085  
B **3SB12 08-7JW..** 1 unit 0.085

Latching



NSD00076



**Without** mechanical locking in the O position  
**With** mechanical locking in the O position

B **3SB12 08-7KV..** 1 unit 0.085  
B **3SB12 08-7KW..** 1 unit 0.085

### Order No. suffix

Actuator with molded plastic front ring, black  
Actuator with metal front ring

**3SB12 0 . -7 . . 01**  
**3SB12 0 . -7 . . 20**

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

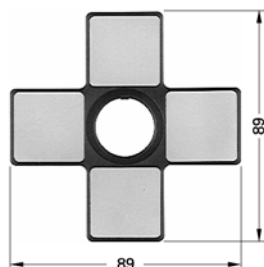
Plastic version, round  
Joystick switch, complete

Version	DT	Order No.	PS*	Weight per PU, approx. kg
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### Name plates



Label holder for 2 positions, vertical



Label holder for 4 switch positions

#### Label holder for joystick switch

2 positions, horizontal

2 positions, vertical

4 positions

#### Labeling plate 27 mm x 27 mm

Without inscription

With inscription

(5 lines each with 11 letters are possible, text engraved)

B	<b>3SB19 06-0AU</b>	1 unit	0.003
B	<b>3SB19 06-0AV</b>	1 unit	0.003
B	<b>3SB19 06-0AW</b>	1 unit	0.006

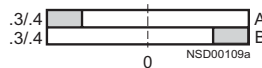
B	<b>3SB19 06-2AA</b>	10 units	0.100
B	<b>3SB19 06-2XZ</b> <b>K0Y, K1Y, K2Y,</b> <b>K3Y or K9Y</b>	1 unit	0.001

Design switch blocks	Symbols	Contact travel	DT	Order No.	PS*	Weight per PU, approx. kg
		 ■ contact closed □ contact open				

### Spare switch blocks



**Switch block with 2 contacts**  
1 NO, 1 NO










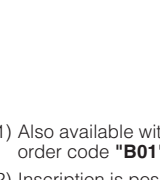
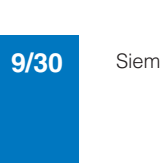
C	<b>3SB14 00-0J</b>	1 unit	0.016
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# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Actuating and signaling elements

### Selection and ordering data

Version	Inscription	Color actuator	DT	Order No.	PS*	Weight per PU, approx. kg		
<b>Pushbuttons with holder<sup>1)</sup></b>								
	<b>Pushbutton with flat button</b>	black	▶	<b>3SB30 00-0AA11</b>	5 units	0.025		
		red	▶	<b>3SB30 00-0AA21</b>	5 units	0.025		
		yellow	B	<b>3SB30 00-0AA31</b>	5 units	0.025		
		green	▶	<b>3SB30 00-0AA41</b>	5 units	0.025		
		blue	B	<b>3SB30 00-0AA51</b>	5 units	0.024		
		white	▶	<b>3SB30 00-0AA61</b>	5 units	0.025		
		gray	B	<b>3SB30 00-0AB51</b>	5 units	0.025		
		clear <sup>2)</sup>	B	<b>3SB30 00-0AA71</b>	5 units	0.025		
		I	green	B	<b>3SB30 00-0AA81</b>	5 units	0.025	
		O	red	B	<b>3SB30 00-0AB01</b>	5 units	0.025	
	<b>Pushbutton with raised button</b>	black	B	<b>3SB30 00-0BA11</b>	1 unit	0.025		
		red	B	<b>3SB30 00-0BA21</b>	1 unit	0.025		
		yellow	B	<b>3SB30 00-0BA31</b>	1 unit	0.025		
		green	B	<b>3SB30 00-0BA41</b>	1 unit	0.025		
		blue	B	<b>3SB30 00-0BA51</b>	1 unit	0.025		
		white	B	<b>3SB30 00-0BA61</b>	1 unit	0.026		
			<b>Pushbutton with raised button, latching</b> after pressing by clockwise rotation, unlatching by anti-clockwise rotation	black	▶	<b>3SB30 00-0CA11</b>	1 unit	0.032
				red	B	<b>3SB30 00-0CA21</b>	1 unit	0.032
			<b>Pushbutton with raised front ring</b> (height 13 mm)	black	B	<b>3SB30 00-0AA12</b>	1 unit	0.026
				red	B	<b>3SB30 00-0AA22</b>	1 unit	0.030
yellow	B			<b>3SB30 00-0AA32</b>	1 unit	0.045		
green	B			<b>3SB30 00-0AA42</b>	1 unit	0.026		
blue	B			<b>3SB30 00-0AA52</b>	1 unit	0.026		
white	B			<b>3SB30 00-0AA62</b>	1 unit	0.026		
	<b>Pushbutton with raised front ring castellated</b> (height 13 mm)	black	B	<b>3SB30 00-0AA13</b>	1 unit	0.026		
		red	B	<b>3SB30 00-0AA23</b>	1 unit	0.030		
		yellow	B	<b>3SB30 00-0AA33</b>	1 unit	0.028		
		green	B	<b>3SB30 00-0AA43</b>	1 unit	0.026		
	<b>Illuminated pushbutton with flat button</b> incl. holder for 3 elements	red <sup>2)</sup>	▶	<b>3SB30 01-0AA21</b>	5 units	0.025		
		yellow <sup>2)</sup>	▶	<b>3SB30 01-0AA31</b>	5 units	0.026		
		green <sup>2)</sup>	▶	<b>3SB30 01-0AA41</b>	5 units	0.026		
		blue <sup>2)</sup>	B	<b>3SB30 01-0AA51</b>	5 units	0.026		
		white	B	<b>3SB30 01-0AA61</b>	5 units	0.025		
	<b>Illuminated pushbutton with raised button</b> incl. holder for 3 elements	red	B	<b>3SB30 01-0BA21</b>	1 unit	0.026		
		yellow	B	<b>3SB30 01-0BA31</b>	1 unit	0.026		
		green	B	<b>3SB30 01-0BA41</b>	1 unit	0.026		
		blue	B	<b>3SB30 01-0BA51</b>	1 unit	0.026		
		clear	B	<b>3SB30 01-0BA71</b>	1 unit	0.026		
	<b>Pushbutton with flat pushbutton, latching,</b> unlatching by pressing again	black	B	<b>3SB30 00-0DA11</b>	1 unit	0.025		
		red	B	<b>3SB30 00-0DA21</b>	1 unit	0.025		
		yellow	B	<b>3SB30 00-0DA31</b>	1 unit	0.025		
		green	B	<b>3SB30 00-0DA41</b>	1 unit	0.026		
		blue	B	<b>3SB30 00-0DA51</b>	1 unit	0.025		
		white	B	<b>3SB30 00-0DA61</b>	1 unit	0.025		
		gray	C	<b>3SB30 00-0DB51</b>	1 unit	0.075		
	<b>Illuminated pushbutton with flat button, latching,</b> unlatching by pressing again, incl. holder for 3 elements	red <sup>2)</sup>	B	<b>3SB30 01-0DA21</b>	1 unit	0.026		
		yellow <sup>2)</sup>	B	<b>3SB30 01-0DA31</b>	1 unit	0.027		
		green <sup>2)</sup>	B	<b>3SB30 01-0DA41</b>	1 unit	0.026		
		blue <sup>2)</sup>	B	<b>3SB30 01-0DA51</b>	1 unit	0.026		
		white	B	<b>3SB30 01-0DA61</b>	1 unit	0.026		
clear <sup>2)</sup>	B	<b>3SB30 01-0DA71</b>	1 unit	0.026				











1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Inscription is possible by inserting a label.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Actuating and signaling elements

Version	Color actuator	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Mushroom pushbuttons with holders<sup>1)</sup></b>					
	<b>Mushroom pushbutton, Ø 30 mm</b>	black	B 3SB30 00-1DA11	1 unit	0.032
		red	B 3SB30 00-1DA21	1 unit	0.032
		yellow	B 3SB30 00-1DA31	1 unit	0.032
		green	B 3SB30 00-1DA41	1 unit	0.032
	<b>Mushroom pushbutton, Ø 40 mm</b>	black	▶ 3SB30 00-1GA11	1 unit	0.033
		red	▶ 3SB30 00-1GA21	1 unit	0.033
		yellow	B 3SB30 00-1GA31	1 unit	0.033
		green	B 3SB30 00-1GA41	1 unit	0.033
	<b>Mushroom pushbutton, Ø 60 mm</b>	black	B 3SB30 00-1QA11	1 unit	0.050
		red	B 3SB30 00-1QA21	1 unit	0.050
		green	B 3SB30 00-1QA41	1 unit	0.050
	<b>Illuminated mushroom pushbutton, Ø 30 mm</b> incl. holder for 3 elements	yellow	B 3SB30 01-1DA31	1 unit	0.032
		green	B 3SB30 01-1DA41	1 unit	0.034
		white	B 3SB30 01-1DA61	1 unit	0.034
	<b>Illuminated mushroom pushbutton, Ø 40 mm</b> incl. holder for 3 elements	yellow	B 3SB30 01-1GA31	1 unit	0.034
		green	B 3SB30 01-1GA41	1 unit	0.034
		white	B 3SB30 01-1GA61	1 unit	0.034
	<b>Push-pull button, Ø 30 mm, latching</b> pull to unlatch	black	B 3SB30 00-1EA11	1 unit	0.032
		red <sup>2)</sup>	B 3SB30 00-1EA21	1 unit	0.032
	<b>Push-pull button, Ø 40 mm, latching</b> pull to unlatch	black	▶ 3SB30 00-1CA11	1 unit	0.033
		red	▶ 3SB30 00-1CA21	1 unit	0.034
	<b>Push-pull button, Ø 60 mm, latching</b> pull to unlatch	black	B 3SB30 00-1RA11	1 unit	0.050
		red	B 3SB30 00-1RA21	1 unit	0.050
	<b>Push-pull button, Ø 30 mm, can be illuminated, latching</b> , pull to unlatch incl. holder for 3 elements	red	B 3SB30 01-1EA21	1 unit	0.033
		yellow	B 3SB30 01-1EA31	1 unit	0.037
		green	B 3SB30 01-1EA41	1 unit	0.033
		blue	B 3SB30 01-1EA51	1 unit	0.034
		clear	B 3SB30 01-1EA71	1 unit	0.060
	<b>Push-pull-button, Ø 40 mm, can be illuminated, latching</b> , pull to unlatch incl. holder for 3 elements	red	B 3SB30 01-1CA21	1 unit	0.035
		yellow	B 3SB30 01-1CA31	1 unit	0.034
		green	B 3SB30 01-1CA41	1 unit	0.034
		blue	B 3SB30 01-1CA51	1 unit	0.034
		clear	B 3SB30 01-1CA71	1 unit	0.034

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Maximum permissible fittings: 3 single-pole and 2 double-pole switch blocks. When using the 3SB39 01-0AB holder, the central command position must not be empty.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Actuating and signaling elements







### Selector switches with holders<sup>1)</sup>



non-illuminated



illuminated

Version	Version illumination	Color actuator	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Selector switches with 2 switch positions</b>						
Switching sequence O-I 50° operating angle latching 	<b>Non-illuminated</b>	black	▶	<b>3SB30 00-2KA11</b>	1 unit	0.028
		red	B	<b>3SB30 00-2KA21</b>	1 unit	0.029
		green	B	<b>3SB30 00-2KA41</b>	1 unit	0.028
		white	B	<b>3SB30 00-2KA61</b>	1 unit	0.028
	<b>Illuminated</b> incl. holder for 3 elements	red	B	<b>3SB30 01-2KA21</b>	1 unit	0.030
		yellow	B	<b>3SB30 01-2KA31</b>	1 unit	0.029
		green	B	<b>3SB30 01-2KA41</b>	1 unit	0.029
		blue	B	<b>3SB30 01-2KA51</b>	1 unit	0.029
		clear	B	<b>3SB30 01-2KA71</b>	1 unit	0.029
		<b>Selector switches with 2 switch positions (continued)</b>				
Switching sequence O-I 50° operating angle momentary contact type 	<b>Non-illuminated</b>	black	▶	<b>3SB30 00-2LA11</b>	1 unit	0.029
		red	B	<b>3SB30 00-2LA21</b>	1 unit	0.028
		green	B	<b>3SB30 00-2LA41</b>	1 unit	0.028
		white	B	<b>3SB30 00-2LA61</b>	1 unit	0.028
	<b>Illuminated</b> incl. holder for 3 elements	red	B	<b>3SB30 01-2LA21</b>	1 unit	0.029
		yellow	B	<b>3SB30 01-2LA31</b>	1 unit	0.029
		green	B	<b>3SB30 01-2LA41</b>	1 unit	0.029
		blue	B	<b>3SB30 01-2LA51</b>	1 unit	0.029
		clear	B	<b>3SB30 01-2LA71</b>	1 unit	0.029
		<b>Non-illuminated selector switches with 3 switch positions</b>				
Switching sequence I-O-II 2 x 50° operating angle latching 	<b>Non-illuminated</b>	black	▶	<b>3SB30 00-2DA11</b>	1 unit	0.028
		red	B	<b>3SB30 00-2DA21</b>	1 unit	0.028
		green	B	<b>3SB30 00-2DA41</b>	1 unit	0.029
		white	B	<b>3SB30 00-2DA61</b>	1 unit	0.028
	<b>Illuminated</b> incl. holder for 3 elements	red	B	<b>3SB30 01-2DA21</b>	1 unit	0.030
		yellow	B	<b>3SB30 01-2DA31</b>	1 unit	0.029
		green	B	<b>3SB30 01-2DA41</b>	1 unit	0.030
		blue	B	<b>3SB30 01-2DA51</b>	1 unit	0.029
		clear	B	<b>3SB30 01-2DA71</b>	1 unit	0.030
		<b>Non-illuminated selector switches with 3 switch positions (continued)</b>				
Switching sequence I-O-II 2 x 50° operating angle momentary contact type 	<b>Non-illuminated</b>	black	▶	<b>3SB30 00-2EA11</b>	1 unit	0.029
		red	B	<b>3SB30 00-2EA21</b>	1 unit	0.028
		green	B	<b>3SB30 00-2EA41</b>	1 unit	0.028
		white	B	<b>3SB30 00-2EA61</b>	1 unit	0.028
	<b>Illuminated</b> incl. holder for 3 elements	red	B	<b>3SB30 01-2EA21</b>	1 unit	0.029
		yellow	B	<b>3SB30 01-2EA31</b>	1 unit	0.030
		green	B	<b>3SB30 01-2EA41</b>	1 unit	0.030
		blue	B	<b>3SB30 01-2EA51</b>	1 unit	0.029
		clear	B	<b>3SB30 01-2EA71</b>	1 unit	0.030
		<b>Non-illuminated selector switches with 3 switch positions (continued)</b>				
Switching sequence I-O-II 2 x 50° operating angle momentary contact to the left, latch- ing to the right (reset from left) 	<b>Non-illuminated</b>	black	▶	<b>3SB30 00-2GA11</b>	1 unit	0.028
		red	B	<b>3SB30 00-2GA21</b>	1 unit	0.029
		green	B	<b>3SB30 00-2GA41</b>	1 unit	0.028
		white	B	<b>3SB30 00-2GA61</b>	1 unit	0.030
	<b>Illuminated</b> incl. holder for 3 elements	red	B	<b>3SB30 01-2GA21</b>	1 unit	0.033
		yellow	B	<b>3SB30 01-2GA31</b>	1 unit	0.045
		green	B	<b>3SB30 01-2GA41</b>	1 unit	0.029
		blue	B	<b>3SB30 01-2GA51</b>	1 unit	0.029
		clear	B	<b>3SB30 01-2GA71</b>	1 unit	0.030
		<b>Non-illuminated selector switches with 3 switch positions (continued)</b>				
Switching sequence I-O-II 2 x 50° operating angle latching to the left, momentary con- tact type to the right (return from right) 	<b>Non-illuminated</b>	black	B	<b>3SB30 00-2FA11</b>	1 unit	0.028
		red	B	<b>3SB30 00-2FA21</b>	1 unit	0.029
		green	B	<b>3SB30 00-2FA41</b>	1 unit	0.029
		white	B	<b>3SB30 00-2FA61</b>	1 unit	0.028
	<b>Illuminated</b> incl. holder for 3 elements	red	B	<b>3SB30 01-2FA21</b>	1 unit	0.060
		yellow	B	<b>3SB30 01-2FA31</b>	1 unit	0.060
		green	B	<b>3SB30 01-2FA41</b>	1 unit	0.030
		blue	C	<b>3SB30 01-2FA51</b>	1 unit	0.035
		clear	B	<b>3SB30 01-2FA71</b>	1 unit	0.037

<sup>1)</sup> Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".



# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Actuating and signaling elements

Version	Version key-operated switch			DT	Order No.	PS*	Weight per PU, approx.
	Type	Lock No.	Key removal position				

kg

### Key-operated switches with holders<sup>1)</sup>

#### Key-operated switch with 2 keys, 2 positions



Switching sequence O-I  
50° operating angle  
latching



Switching sequence O-I  
50° operating angle  
latching



RONIS key-operated switch



CES key-operated switch



IKON key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

Switching sequence O-I  
50° operating angle  
momentary contact type



RONIS	SB 30	O+I	B	<b>3SB30 00-4HD11</b>	1 unit	0.059
		O	B	<b>3SB30 00-4HD01</b>	1 unit	0.060
		I	B	<b>3SB30 00-4HD21</b>	1 unit	0.060
RONIS	SB 30	O+I	▶	<b>3SB30 00-4AD11</b>	1 unit	0.060
		O	▶	<b>3SB30 00-4AD01</b>	1 unit	0.060
		I	B	<b>3SB30 00-4AD21</b>	1 unit	0.060
CES	SSG 10	O+I	▶	<b>3SB30 00-4LD11</b>	1 unit	0.139
		O	▶	<b>3SB30 00-4LD01</b>	1 unit	0.143
		I	B	<b>3SB30 00-4LD21</b>	1 unit	0.142
	LSG 1	O+I	B	<b>3SB30 00-4LF01</b>	1 unit	0.140
		O	B	<b>3SB30 00-4LF11</b>	1 unit	0.144
IKON	360012 K1	O+I	B	<b>3SB30 00-5LD11</b>	1 unit	0.148
		O	B	<b>3SB30 00-5LD01</b>	1 unit	0.150
BKS	S1	O+I	B	<b>3SB30 00-5AD11</b>	1 unit	0.136
		O	B	<b>3SB30 00-5AD01</b>	1 unit	0.138
		I	B	<b>3SB30 00-5AD21</b>	1 unit	0.140
	E1 for VW <sup>2)</sup>	O+I	B	<b>3SB30 00-5AE01</b>	1 unit	0.125
		O	B	<b>3SB30 00-5AE11</b>	1 unit	0.128
	E2 for VW <sup>2)</sup>	O+I	B	<b>3SB30 00-5AE21</b>	1 unit	0.125
		O	B	<b>3SB30 00-5AE31</b>	1 unit	0.129
	E7 for VW <sup>2)</sup>	O+I	B	<b>3SB30 00-5AE41</b>	1 unit	0.124
		O	B	<b>3SB30 00-5AE51</b>	1 unit	0.128
	E9 for VW <sup>2)</sup>	O+I	B	<b>3SB30 00-5AE61</b>	1 unit	0.125
		O	B	<b>3SB30 00-5AE71</b>	1 unit	0.127
O.M.R. <sup>3)</sup>	73038 light blue	O+I	B	<b>3SB30 00-3AG11</b>	1 unit	0.190
		O	B	<b>3SB30 00-3AG01</b>	1 unit	0.126
	73037 red	O+I	B	<b>3SB30 00-3AH11</b>	1 unit	0.150
		O	B	<b>3SB30 00-3AH01</b>	1 unit	0.126
		I	B	<b>3SB30 00-3AH21</b>	1 unit	0.125
	73034 black	O+I	B	<b>3SB30 00-3AJ11</b>	1 unit	0.127
		O	B	<b>3SB30 00-3AJ01</b>	1 unit	0.125
	73033 yellow	O+I	B	<b>3SB30 00-3AK11</b>	1 unit	0.160
		O	B	<b>3SB30 00-3AK01</b>	1 unit	0.120
RONIS	SB 30	O	▶	<b>3SB30 00-4BD01</b>	1 unit	0.060
CES	SSG 10	O	▶	<b>3SB30 00-4MD01</b>	1 unit	0.143
	LSG 1	O	B	<b>3SB30 00-4MF11</b>	1 unit	0.144
IKON	360012 K1	O	B	<b>3SB30 00-5MD01</b>	1 unit	0.150
BKS	S1	O	B	<b>3SB30 00-5BD01</b>	1 unit	0.141
O.M.R. <sup>3)</sup>	73038 light blue	O	B	<b>3SB30 00-3BG01</b>	1 unit	0.126
	73037 red	O	B	<b>3SB30 00-3BH01</b>	1 unit	0.127
	73034 black	O	B	<b>3SB30 00-3BJ01</b>	1 unit	0.140
	73033 yellow	O	B	<b>3SB30 00-3BK01</b>	1 unit	0.126

For special designs, see page 9/39.

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Supplied without the key.

3) Designed to FIAT specification; also available for other customers.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Actuating and signaling elements

Version	Version key-operated switch			DT	Order No.	PS*	Weight per PU, approx.
	Type	Lock No.	Key removal position				kg

### Key-operated switches with holders<sup>1)</sup>

#### Key-operated switch with 2 keys and 3 switch positions

Switching sequence I-O-II  
2 x 50° operating angle  
latching



RONIS key-operated switch



CES key-operated switch



IKON key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

Switching sequence I-O-II  
2 x 50° operating angle  
momentary contact type



RONIS	SB 30	I+O+II	B	<b>3SB30 00-4DD11</b>	1 unit	0.060
		O	B	<b>3SB30 00-4DD01</b>	1 unit	0.060
		I+II	B	<b>3SB30 00-4DD41</b>	1 unit	0.060
		I	B	<b>3SB30 00-4DD21</b>	1 unit	0.060
		II	B	<b>3SB30 00-4DD31</b>	1 unit	0.060
		O+I	B	<b>3SB30 00-4DD51</b>	1 unit	0.060
CES	SSG 10	I+O+II	B	<b>3SB30 00-4PD11</b>	1 unit	0.140
		O	B	<b>3SB30 00-4PD01</b>	1 unit	0.144
		I+II	B	<b>3SB30 00-4PD41</b>	1 unit	0.142
		I	B	<b>3SB30 00-4PD21</b>	1 unit	0.144
II	B	<b>3SB30 00-4PD31</b>	1 unit	0.144		
IKON	360012 K1	I+O+II	B	<b>3SB30 00-5PD11</b>	1 unit	0.149
BKS	S1	I+O+II	B	<b>3SB30 00-5DD11</b>	1 unit	0.136
		O	B	<b>3SB30 00-5DD01</b>	1 unit	0.141
		II	C	<b>3SB30 00-5DD31</b>	1 unit	0.137
O.M.R. <sup>2)</sup>	73038 light blue	I+O+II	B	<b>3SB30 00-3DG11</b>	1 unit	0.125
		O	B	<b>3SB30 00-3DG01</b>	1 unit	0.127
		O+I	B	<b>3SB30 00-3DG51</b>	1 unit	0.125
	73037 red	I+O+II	B	<b>3SB30 00-3DH11</b>	1 unit	0.127
		O	B	<b>3SB30 00-3DH01</b>	1 unit	0.125
		O+I	B	<b>3SB30 00-3DH51</b>	1 unit	0.125
	73034 black	I+O+II	B	<b>3SB30 00-3DJ11</b>	1 unit	0.126
		O	B	<b>3SB30 00-3DJ01</b>	1 unit	0.128
	73033 yellow	I+O+II	B	<b>3SB30 00-3DK11</b>	1 unit	0.125
		O	C	<b>3SB30 00-3DK01</b>	1 unit	0.128

RONIS	SB 30	O	B	<b>3SB30 00-4ED01</b>	1 unit	0.060
CES	SSG 10	O	B	<b>3SB30 00-4QD01</b>	1 unit	0.144
IKON	360012 K1	O	B	<b>3SB30 00-5QD01</b>	1 unit	0.153
BKS	S1	O	B	<b>3SB30 00-5ED01</b>	1 unit	0.140
O.M.R. <sup>2)</sup>	73038 light blue	O	B	<b>3SB30 00-3EG01</b>	1 unit	0.130
		O	B	<b>3SB30 00-3EH01</b>	1 unit	0.123
		O	B	<b>3SB30 00-3EJ01</b>	1 unit	0.128
		O	B	<b>3SB30 00-3EK01</b>	1 unit	0.128

For special designs, see page 9/39.

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Designed to FIAT specification; also available for other customers.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Actuating and signaling elements

Version	Version key-operated switch			DT	Order No.	PS*	Weight per PU, approx.
	Type	Lock No.	Key removal position				kg

### Key-operated switches with holders<sup>1)</sup>

#### Key-operated switch with 2 keys and 3 switch positions



RONIS key-operated switch

Switching sequence I-O-II  
2 x 50° operating angle  
momentary contact type to the left,  
latching to the right  
(return from left)



RONIS	SB 30	O + II	B	<b>3SB30 00-4GD61</b>	1 unit	0.060
			B	<b>3SB30 00-4GD01</b>	1 unit	0.061
			B	<b>3SB30 00-4GD31</b>	1 unit	0.061
CES	SSG 10	O + II	B	<b>3SB30 00-4SD61</b>	5 units	0.142
			B	<b>3SB30 00-4SD01</b>	5 units	0.144
			B	<b>3SB30 00-4SD31</b>	5 units	0.144
BKS	S1	O	B	<b>3SB30 00-5GD01</b>	1 unit	0.141



CES key-operated switch

Switching sequence I-O-II  
2 x 50° operating angle  
latching to the left,  
momentary contact type to the right  
(return from right)



RONIS	SB 30	O+I	B	<b>3SB30 00-4FD51</b>	1 unit	0.060
			B	<b>3SB30 00-4FD01</b>	1 unit	0.061
			B	<b>3SB30 00-4FD21</b>	1 unit	0.061
CES	SSG 10	O+I	B	<b>3SB30 00-4RD51</b>	5 units	0.143
			B	<b>3SB30 00-4RD01</b>	5 units	0.144
			B	<b>3SB30 00-4RD21</b>	5 units	0.144
IKON	350012 K1	O+I	B	<b>3SB30 00-5RD51</b>	1 unit	0.150
BKS	S1	O+I	B	<b>3SB30 00-5FD51</b>	1 unit	0.137
			B	<b>3SB30 00-5FD01</b>	1 unit	0.141
			B	<b>3SB30 00-5FD21</b>	1 unit	0.141
O.M.R. <sup>2)</sup>	73038 light blue	O	B	<b>3SB30 00-3FG01</b>	1 unit	0.126
			C	<b>3SB30 00-3FG21</b>	1 unit	0.126
			73034 black	I	B	<b>3SB30 00-3FJ21</b>



IKON key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

For special designs, see page 9/39.








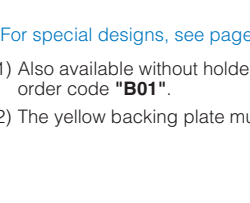



1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) In accordance with FIAT standards; also available for other users.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Actuating and signaling elements

Version	Color of actuator / position for key removal	Approval	DT	Order No.	PS*	Weight per PU, approx. kg
<b>EMERGENCY-STOP control devices according to EN 418 and IEC 60947-5-5 with holder<sup>1)2)</sup></b> Also for use with 3TK28 contactor safety combinations (see Section 11)						
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 32 mm,</b> with positive latching function acc. to EN 418, rotate to unlatch	red		B	<b>3SB30 00-1FA20</b>	1 unit 0.032
Mushroom diameter 32 mm						
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 40 mm,</b> with positive latching function acc. to EN 418, rotate to unlatch	red		▶	<b>3SB30 00-1HA20</b>	1 unit 0.055
Mushroom diameter 40 mm, rotate to unlatch						
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 40 mm,</b> with positive latching function acc. to EN 418, pull to unlatch	red		B	<b>3SB30 00-1TA20</b>	1 unit 0.050
Mushroom diameter 40 mm, pull to unlatch						
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 60 mm,</b> with positive latching function acc. to EN 418, pull to unlatch	red		B	<b>3SB30 00-1AA20</b>	1 unit 0.086
Mushroom diameter 40 mm, pull to unlatch						
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with RONIS key-operated switch,</b> lock No. SB 30, with positive latching to EN 418, unlocking only possible using key	red ON/OFF		B	<b>3SB30 00-1BA20</b>	1 unit 0.086
Mushroom diameter 60 mm						
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with CES key-operated switch,</b> lock No. SSG 10, with positive latching to EN 418, unlocking only possible using key	red ON/OFF		B	<b>3SB30 00-1KA20</b>	1 unit 0.114
Mushroom diameter 60 mm						
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with BKS key-operated switch,</b> lock No. S1, with positive latching to EN 418, unlocking only possible using key	red ON/OFF		B	<b>3SB30 00-1LA20</b>	1 unit 0.112
Mushroom diameter 40 mm, with key-operated switch						
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with O.M.R. key-operated switch,</b> lock No. 73037, with positive latching to EN 418, unlocking only possible using key	red ON/OFF		B	<b>3SB30 00-1MA20</b>	1 unit 0.120
Mushroom diameter 40 mm, with key-operated switch						




For special designs, see page 9/39.

- Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".
- The yellow backing plate must be ordered separately, see Accessories.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Actuating and signaling elements

Version	Color of lens	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Signaling elements with holders<sup>1)</sup></b>					
	<b>Indicator light</b> with smooth lens	red	▶ <b>3SB30 01-6AA20</b>	5 units	0.023
		yellow	B <b>3SB30 01-6AA30</b>	5 units	0.023
		green	▶ <b>3SB30 01-6AA40</b>	5 units	0.022
		blue	B <b>3SB30 01-6AA50</b>	5 units	0.022
		white	B <b>3SB30 01-6AA60</b>	5 units	0.023
		clear	▶ <b>3SB30 01-6AA70</b>	5 units	0.023
	<b>Indicator light</b> with lens with concentric rings	red	B <b>3SB30 01-6BA20</b>	5 units	0.022
		yellow	B <b>3SB30 01-6BA30</b>	5 units	0.023
		green	B <b>3SB30 01-6BA40</b>	5 units	0.023
		blue	B <b>3SB30 01-6BA50</b>	5 units	0.023
		white	B <b>3SB30 01-6BA60</b>	5 units	0.023
		clear	B <b>3SB30 01-6BA70</b>	5 units	0.022
	<b>Acoustic signaling device, IP40<sup>2)</sup></b> for acoustic signal transformer DC 24 V with BA 9s base <sup>3)</sup>	black	B <b>3SB30 00-7AA10</b>	1 unit	0.024

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Acoustic signal device, IP65, see complete device combinations.

3) To order acoustic signal transformer separately, see Accessories. The 3SB34 00-1A lampholder is also required.

# Pushbuttons and Indicator Lights SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Actuating and signaling elements

## On-Off pushbuttons with holders<sup>1)</sup>



On-Off pushbutton with flat buttons



On-Off pushbutton with indicator light, with flat and raised buttons

Version	Inscription	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
<b>On-Off pushbutton, with flat buttons</b>	I/O <sup>2)</sup>	green/red	B	<b>3SB31 00-8AC21</b>	1 unit	0.032
	I/O <sup>2)</sup>	white/black	B	<b>3SB31 00-8AC31</b>	1 unit	0.032
<b>On-Off pushbutton, with flat and raised button</b>	I/O <sup>2)</sup>	green/red	B	<b>3SB31 00-8CC21</b>	1 unit	0.032
	I/O <sup>2)</sup>	white/black	B	<b>3SB31 00-8CC31</b>	1 unit	0.032
<b>On-Off pushbutton with indicator light, with flat pushbuttons incl. holders for 3 elements</b>	I/O <sup>2)</sup>	green/red	B	<b>3SB31 01-8BC21</b>	1 unit	0.033
	I/O <sup>2)</sup>	white/black	B	<b>3SB31 01-8BC31</b>	1 unit	0.033
<b>On-Off pushbutton with indicator light, with flat and raised pushbutton incl. holder for 3 elements</b>	I/O <sup>2)</sup>	green/red	B	<b>3SB31 01-8DC21</b>	1 unit	0.033
	I/O <sup>2)</sup>	white/black	B	<b>3SB31 01-8DC31</b>	1 unit	0.033

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Black inscription for green, red and white buttons; white inscription on black button.



Labeling plate



Protective cap

Version	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Label holder, 70 mm × 30 mm for labeling plate 12.5 mm × 27 mm<sup>1)</sup></b>	B	<b>3SB39 22-0AY</b>	5 unit	0.200
<b>Protective cap, clear, silicone for IP67 degree of protection can be used for on-off pushbutton with flat buttons</b>	B	<b>3SB39 21-0AQ</b>	1 unit	0.004

1) For labeling plates, see page 9/68.

# Pushbuttons and Indicator Lights SIGNUM 22 mm Nominal Diameter

Plastic version, round  
Actuating and signaling elements

## Options

### Special locks for key-operated switches

For special locks that are listed in the table below, the normal delivery time is 5 working days.

In the case, the Order No. of the relevant switch must be supplemented with "-Z", the short code "Y02" and the required lock number.

#### Ordering example

3SB30 00-4LD01-Z  
Y02  
Z = SSG11

Special locks	Order No. Code
SB31 to SB49, T421, T455, T458	3SB3. ...-4AD..-Z Y02 3SB3. ...-4BD..-Z Y02 3SB3. ...-4DD..-Z Y02 3SB3. ...-4ED..-Z Y02 3SB3. ...-4GD..-Z Y02 3SB3. ...-4FD..-Z Y02
SB31 to SB49, T421, T455, T458	3SB3. ...-1BA20-Z Y02
SSG 11 to SSG 15	3SB3. ...-4LD..-Z Y02 3SB3. ...-4MD..-Z Y02 3SB3. ...-4PD..-Z Y02 3SB3. ...-4QD..-Z Y02 3SB3. ...-4RD..-Z Y02 3SB3. ...-4SD..-Z Y02
SSP 9	3SB3. ...-1KA20-Z Y02
E1, E2, E7, E9	3SB3. ...-5AD..-Z Y02 3SB3. ...-5BD..-Z Y02 3SB3. ...-5DD01-Z Y02 3SB3. ...-5DD11-Z Y02 3SB3. ...-5DD41-Z Y02 3SB3. ...-5ED..-Z Y02 3SB3. ...-5FD01-Z Y02 3SB3. ...-5GD01-Z Y02
E 9	3SB3. ...-5FD51-Z Y02
E2, E7, E9	3SB3. ...-1LA20-Z Y02

For special locks that are not listed in the above table, the normal delivery time is 25 working days.

In this case, the Order No. of the relevant switch must be supplemented with "-Z", the short code "Y01" and the required lock number.

#### Ordering example

3SB30 00-4LD01-Z  
Y01  
Z = SSG18

#### Versions

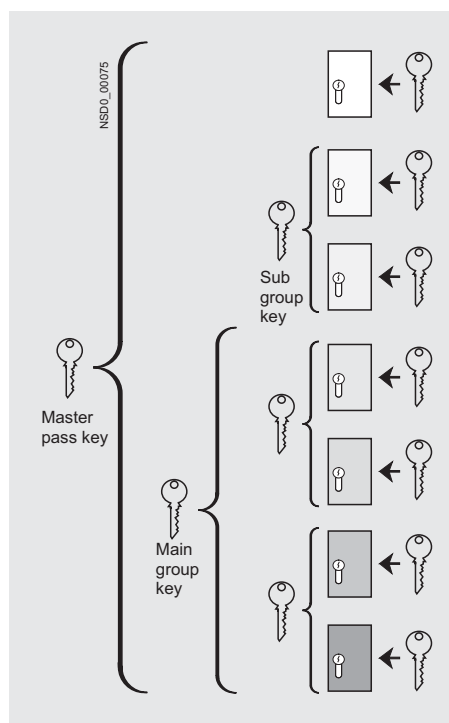
- For applications in which access security is important and several lock numbers are used, we recommend the use of BKS, CES or IKON key-operated switches.
- Special locks for VW (E1, E2, ...) will be delivered without keys, all others with 2 keys.
- For all special locks, a price supplement applies.

### Master and master-pass key systems

The following key systems can be supplied with BKS, CES, IKON and O.M.R. key-operated switches:

- central lock systems,
- master key systems,
- central master key systems,
- master-pass key systems.

Please enquire for price and delivery time.



Example of master-pass key system

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Plastic version, round Actuating and signaling elements

#### Laser inscription

Actuating and signaling elements in plastic as well as metal design can be optionally inscribed with a laser.

The actuators of the pushbuttons, illuminated pushbuttons, mushroom pushbuttons and illuminated mushroom pushbuttons can be inscribed as well as the lenses of the indicator light.



Pushbutton with laser inscription

#### Notes on ordering

When ordering, supplement the Order No. of the actuating element or the indicator light with "-Z" and an order code:

- Text in upper/lowercase: **Y10**
- Text in uppercase: **Y11**
- Text in lowercase: **Y12**
- Symbols with number to DIN Report 4: **Y13**
- Inscription or symbols according to order form supplement: **Y19**

The required inscription must also be specified in plain text. In the case of inscriptions with words in languages other than German, give the exact spelling and specify the language.

For special symbols (short code Y19), a CAD drawing in DXF format should be submitted.

#### Ordering examples

A round pushbutton with the inscription "Reset" is required:

**3SB30 00-0AA41-Z**  
**Y10**  
**Z = Reset (English)**

A square pushbutton inscribed with symbol No. 1800 according to DIN Report 4:

**3SB31 10-0AA31-Z**  
**Y13**  
**Z = 1800**





# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter


Plastic version, square  
Complete unit combinations

### Selection and ordering data

Version	Lamp voltage	Color of actuator	Contacts for front plate mounting	DT	Order No.	PS*	Weight per PU, approx.		
	V						kg		
 Pushbutton	<b>Pushbutton with flat button</b>	black	1 NO	B	<b>3SB33 02-0AA11</b>	1 unit	0.039		
		black	1 NC	B	<b>3SB33 03-0AA11</b>	1 unit	0.039		
		red	1 NC	B	<b>3SB33 03-0AA21</b>	1 unit	0.040		
		yellow	1 NO	B	<b>3SB33 02-0AA31</b>	1 unit	0.039		
		green	1 NO	B	<b>3SB33 02-0AA41</b>	1 unit	0.039		
		blue	1 NO	B	<b>3SB33 02-0AA51</b>	1 unit	0.039		
		white	1 NO	B	<b>3SB33 02-0AA61</b>	1 unit	0.040		
		black	1 NO + 1 NC	B	<b>3SB33 01-0AA11</b>	1 unit	0.046		
		red	1 NO + 1 NC	B	<b>3SB33 01-0AA21</b>	1 unit	0.046		
		yellow	1 NO + 1 NC	B	<b>3SB33 01-0AA31</b>	1 unit	0.047		
		green	1 NO + 1 NC	B	<b>3SB33 01-0AA41</b>	1 unit	0.046		
		blue	1 NO + 1 NC	C	<b>3SB33 01-0AA51</b>	1 unit	0.046		
		white	1 NO + 1 NC	B	<b>3SB33 01-0AA61</b>	1 unit	0.046		
		 Illuminated pushbutton	<b>Illuminated pushbutton with flat button with integrated LED</b>	AC/DC 24	red <sup>1)</sup>	1 NC	B	<b>3SB33 46-0AA21</b>	1 unit
yellow <sup>1)</sup>	1 NO			B	<b>3SB33 45-0AA31</b>	1 unit	0.050		
green <sup>1)</sup>	1 NO			B	<b>3SB33 45-0AA41</b>	1 unit	0.050		
blue <sup>1)</sup>	1 NO			B	<b>3SB33 45-0AA51</b>	1 unit	0.050		
white	1 NO			B	<b>3SB33 45-0AA61</b>	1 unit	0.050		
clear <sup>1)</sup>	1 NO			B	<b>3SB33 45-0AA71</b>	1 unit	0.050		
red <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 47-0AA21</b>	1 unit	0.056		
yellow <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 47-0AA31</b>	1 unit	0.057		
green <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 47-0AA41</b>	1 unit	0.057		
blue <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 47-0AA51</b>	1 unit	0.056		
white	1 NO + 1 NC			B	<b>3SB33 47-0AA61</b>	1 unit	0.057		
clear <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 47-0AA71</b>	1 unit	0.057		
<b>Illuminated pushbutton with flat button with integrated LED</b>	AC 230			red <sup>1)</sup>	1 NC	B	<b>3SB33 54-0AA21</b>	1 unit	0.050
				yellow <sup>1)</sup>	1 NO	C	<b>3SB33 53-0AA31</b>	1 unit	0.050
		green <sup>1)</sup>	1 NO	B	<b>3SB33 53-0AA41</b>	1 unit	0.050		
		blue <sup>1)</sup>	1 NO	C	<b>3SB33 53-0AA51</b>	1 unit	0.050		
		white	1 NO	B	<b>3SB33 53-0AA61</b>	1 unit	0.050		
		clear <sup>1)</sup>	1 NO	B	<b>3SB33 53-0AA71</b>	1 unit	0.050		
		red <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB33 55-0AA21</b>	1 unit	0.058		
		yellow <sup>1)</sup>	1 NO + 1 NC	C	<b>3SB33 55-0AA31</b>	1 unit	0.057		
		green <sup>1)</sup>	1 NO + 1 NC	C	<b>3SB33 55-0AA41</b>	1 unit	0.057		
		blue <sup>1)</sup>	1 NO + 1 NC	C	<b>3SB33 55-0AA51</b>	1 unit	0.057		
		white	1 NO + 1 NC	C	<b>3SB33 55-0AA61</b>	1 unit	0.057		
		clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB33 55-0AA71</b>	1 unit	0.057		
		<b>Illuminated pushbutton with flat button with BA 9s lampholder without lamp</b>		red <sup>1)</sup>	1 NC	B	<b>3SB33 07-0AA21</b>	1 unit	0.050
				yellow <sup>1)</sup>	1 NO	B	<b>3SB33 06-0AA31</b>	1 unit	0.049
green <sup>1)</sup>	1 NO			B	<b>3SB33 06-0AA41</b>	1 unit	0.049		
blue <sup>1)</sup>	1 NO			B	<b>3SB33 06-0AA51</b>	1 unit	0.049		
white	1 NO			B	<b>3SB33 06-0AA61</b>	1 unit	0.049		
clear <sup>1)</sup>	1 NO			B	<b>3SB33 06-0AA71</b>	1 unit	0.049		
red <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 05-0AA21</b>	1 unit	0.056		
yellow <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 05-0AA31</b>	1 unit	0.054		
green <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 05-0AA41</b>	1 unit	0.056		
blue <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 05-0AA51</b>	1 unit	0.056		
white	1 NO + 1 NC			B	<b>3SB33 05-0AA61</b>	1 unit	0.056		
clear <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB33 05-0AA71</b>	1 unit	0.056		

**EMERGENCY-STOP control devices according to EN 418 with yellow name plate, Ø 80 mm, labeled.**

**Can also be used with 3TK28 contactor safety combinations (see Part 11)**

 EMERGENCY-STOP mushroom pushbuttons	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function</b> rotate to unlatch	red	1 NC	→ <sup>2)</sup>	B	<b>3SB33 03-1HA20</b>	1 unit	0.065
			1 NO + 1 NC	→ <sup>2)</sup>	B	<b>3SB33 01-1HA20</b>	1 unit	0.080

1) Inscription is possible by inserting a label.

2) Positive opening according to IEC 60947-5-1, Appendix K.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, square  
Complete unit combinations



Indicator light





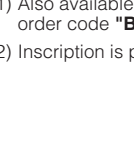

Version	Lamp voltage	Color of lens	DT	Order No.	PS*	Weight per PU, approx.
	V					kg
<b>Indicator light</b> with integrated LED	AC/DC 24	red	B	<b>3SB33 44-6AA20</b>	1 unit	0.039
		yellow	B	<b>3SB33 44-6AA30</b>	1 unit	0.039
		green	B	<b>3SB33 44-6AA40</b>	1 unit	0.039
		blue	B	<b>3SB33 44-6AA50</b>	1 unit	0.039
		white	B	<b>3SB33 44-6AA60</b>	1 unit	0.039
		clear	B	<b>3SB33 44-6AA70</b>	1 unit	0.039
<b>Indicator light</b> with integrated LED	AC 230	red	B	<b>3SB33 52-6AA20</b>	1 unit	0.039
		yellow	B	<b>3SB33 52-6AA30</b>	1 unit	0.039
		green	B	<b>3SB33 52-6AA40</b>	1 unit	0.039
		blue	B	<b>3SB33 52-6AA50</b>	1 unit	0.040
		white	B	<b>3SB33 52-6AA60</b>	1 unit	0.040
		clear	B	<b>3SB33 52-6AA70</b>	1 unit	0.040
<b>Indicator light</b> with BA 9s lampholder (without lamp)		red	B	<b>3SB33 04-6AA20</b>	1 unit	0.039
		yellow	B	<b>3SB33 04-6AA30</b>	1 unit	0.039
		green	B	<b>3SB33 04-6AA40</b>	1 unit	0.038
		blue	B	<b>3SB33 04-6AA50</b>	1 unit	0.038
		white	B	<b>3SB33 04-6AA60</b>	1 unit	0.038
		clear	B	<b>3SB33 04-6AA70</b>	1 unit	0.038

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, square  
Actuating and signaling elements

### Selection and ordering data

Version	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Pushbuttons with holders<sup>1)</sup></b>					
 Pushbutton	<b>Pushbutton with flat button</b>	black	B <b>3SB31 10-0AA11</b>	5 units	0.024
		red	B <b>3SB31 10-0AA21</b>	5 units	0.024
		yellow	B <b>3SB31 10-0AA31</b>	5 units	0.024
		green	B <b>3SB31 10-0AA41</b>	5 units	0.024
		blue	B <b>3SB31 10-0AA51</b>	5 units	0.024
		white	B <b>3SB31 10-0AA61</b>	5 units	0.024
		clear <sup>2)</sup>	B <b>3SB31 10-0AA71</b>	5 units	0.024
 Illuminated pushbutton	<b>Pushbutton with raised front ring (height 13 mm)</b>	black	B <b>3SB31 10-0AA12</b>	1 unit	0.026
		red	B <b>3SB31 10-0AA22</b>	1 unit	0.033
		white	B <b>3SB31 10-0AA62</b>	1 unit	0.026
 Pushbutton	<b>Pushbutton with raised front ring castellated (height 13 mm)</b>	black	C <b>3SB31 10-0AA13</b>	1 unit	0.026
		yellow	C <b>3SB31 10-0AA33</b>	1 unit	0.027
		green	C <b>3SB31 10-0AA43</b>	1 unit	0.026
	 Illuminated pushbutton	<b>Illuminated pushbutton with flat button</b> incl. holder for 3 elements	red <sup>2)</sup>	B <b>3SB31 11-0AA21</b>	5 units
		yellow <sup>2)</sup>	B <b>3SB31 11-0AA31</b>	5 units	0.025
		green <sup>2)</sup>	B <b>3SB31 11-0AA41</b>	5 units	0.025
		blue <sup>2)</sup>	B <b>3SB31 11-0AA51</b>	5 units	0.025
		white	B <b>3SB31 11-0AA61</b>	5 units	0.025
		clear <sup>2)</sup>	B <b>3SB31 11-0AA71</b>	5 units	0.025
 Pushbutton	<b>Pushbutton, latching, with flat button</b> unlatching by pressing again	black	B <b>3SB31 10-0DA11</b>	1 unit	0.024
		red	B <b>3SB31 10-0DA21</b>	1 unit	0.024
		yellow	B <b>3SB31 10-0DA31</b>	1 unit	0.025
		green	B <b>3SB31 10-0DA41</b>	1 unit	0.024
		blue	C <b>3SB31 10-0DA51</b>	1 unit	0.024
		white	B <b>3SB31 10-0DA61</b>	1 unit	0.024
 Illuminated pushbutton	<b>Illuminated pushbutton, latching, with flat button</b> incl. holder for 3 elements, unlatching by pressing again	red <sup>2)</sup>	B <b>3SB31 11-0DA21</b>	1 unit	0.025
		yellow <sup>2)</sup>	B <b>3SB31 11-0DA31</b>	1 unit	0.025
		green <sup>2)</sup>	B <b>3SB31 11-0DA41</b>	1 unit	0.025
		blue <sup>2)</sup>	B <b>3SB31 11-0DA51</b>	1 unit	0.025
		white	B <b>3SB31 11-0DA61</b>	1 unit	0.025
		clear <sup>2)</sup>	B <b>3SB31 11-0DA71</b>	1 unit	0.025








1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Inscription is possible by inserting a label.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, square  
Actuating and signaling elements

Version	Version illumination	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg	
<b>Selector switches with holders<sup>1)</sup></b>							
 Selector switch	<b>Selector switch with 2 switch positions</b>						
	Switching sequence O-I, 50° operating angle, latching						
		<b>Non-illuminated</b>	black red green white	B B B B	<b>3SB31 10-2KA11</b> <b>3SB31 10-2KA21</b> <b>3SB31 10-2KA41</b> <b>3SB31 10-2KA61</b>	1 unit 1 unit 1 unit 1 unit	0.030 0.030 0.029 0.030
		<b>Illuminated</b> incl. holder for 3 elements	red yellow green blue clear	B B B B B	<b>3SB31 11-2KA21</b> <b>3SB31 11-2KA31</b> <b>3SB31 11-2KA41</b> <b>3SB31 11-2KA51</b> <b>3SB31 11-2KA71</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.031 0.031 0.031 0.031 0.031
	Switching sequence O-I 50° operating angle momentary contact type						
		<b>Non-illuminated</b>	black red green white	B C C C	<b>3SB31 10-2LA11</b> <b>3SB31 10-2LA21</b> <b>3SB31 10-2LA41</b> <b>3SB31 10-2LA61</b>	1 unit 1 unit 1 unit 1 unit	0.030 0.030 0.029 0.030
		<b>Illuminated</b> incl. holder for 3 elements	red yellow green blue clear	B C C C B	<b>3SB31 11-2LA21</b> <b>3SB31 11-2LA31</b> <b>3SB31 11-2LA41</b> <b>3SB31 11-2LA51</b> <b>3SB31 11-2LA71</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.031 0.031 0.032 0.031 0.031
	<b>Selector switch with 3 switch positions</b>						
	Switching sequence I-O-II 2 x 50° operating angle latching						
		<b>Non-illuminated</b>	black red green white	B B C C	<b>3SB31 10-2DA11</b> <b>3SB31 10-2DA21</b> <b>3SB31 10-2DA41</b> <b>3SB31 10-2DA61</b>	1 unit 1 unit 1 unit 1 unit	0.031 0.030 0.030 0.030
	<b>Illuminated</b> incl. holder for 3 elements	red yellow green blue clear	B B B C B	<b>3SB31 11-2DA21</b> <b>3SB31 11-2DA31</b> <b>3SB31 11-2DA41</b> <b>3SB31 11-2DA51</b> <b>3SB31 11-2DA71</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.030 0.030 0.031 0.035 0.031	
Switching sequence I-O-II 2 x 50° operating angle momentary contact type							
	<b>Non-illuminated</b>	black red green white	B B C C	<b>3SB31 10-2EA11</b> <b>3SB31 10-2EA21</b> <b>3SB31 10-2EA41</b> <b>3SB31 10-2EA61</b>	1 unit 1 unit 1 unit 1 unit	0.030 0.030 0.030 0.030	
	<b>Illuminated</b> incl. holder for 3 elements	red yellow green blue clear	C C B C B	<b>3SB31 11-2EA21</b> <b>3SB31 11-2EA31</b> <b>3SB31 11-2EA41</b> <b>3SB31 11-2EA51</b> <b>3SB31 11-2EA71</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.031 0.037 0.031 0.031 0.031	
Switching sequence I-O-II 2 x 50° operating angle momentary contact type to the left, latching to the right (return from left)							
	<b>Non-illuminated<sup>2)</sup></b>	black red green white	B B C B	<b>3SB31 10-2GA11</b> <b>3SB31 10-2GA21</b> <b>3SB31 10-2GA41</b> <b>3SB31 10-2GA61</b>	1 unit 1 unit 1 unit 1 unit	0.040 0.023 0.030 0.037	
Switching sequence I-O-II 2 x 50° operating angle latching to the left, momentary contact type to the right (return from right)							
	<b>Non-illuminated<sup>2)</sup></b>	black red green white	B C B B	<b>3SB31 10-2FA11</b> <b>3SB31 10-2FA21</b> <b>3SB31 10-2FA41</b> <b>3SB31 10-2FA61</b>	1 unit 1 unit 1 unit 1 unit	0.033 0.032 0.050 0.023	

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Also available as illuminated selector switch. When ordering, add "-Z" to the order number and indicate "illuminated selector switch" and the color in plain text.

# Pushbuttons and Indicator Lights SIGNUM 22 mm Nominal Diameter

Plastic version, square  
Actuating and signaling elements

Version	Type	Lock No./ Color	Key removal position	DT	Order No.	PS*	Weight per PU, approx. kg
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## Key-operated switches with holders<sup>1)</sup>

### Key-operated switch with 2 keys, 2 positions



RONIS key-operated switch

Switching sequence O-I,  
50° operating angle,  
latching



RONIS	SB 30	O+I	O	B	<b>3SB31 10-4AD11</b>	1 unit	0.061
				B	<b>3SB31 10-4AD01</b>	1 unit	0.061
				B	<b>3SB31 10-4AD21</b>	1 unit	0.061

CES	SSG 10	O+I	O	B	<b>3SB31 10-4LD11</b>	1 unit	0.141
				B	<b>3SB31 10-4LD01</b>	1 unit	0.144
				B	<b>3SB31 10-4LD21</b>	1 unit	0.145

LSG 1	O	C	<b>3SB31 10-4LF01</b>	1 unit	0.140
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IKON	360012 K1	O	B	<b>3SB31 10-5LD01</b>	1 unit	0.151
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BKS	S1	O+I	O	B	<b>3SB31 10-5AD11</b>	1 unit	0.140
				B	<b>3SB31 10-5AD01</b>	1 unit	0.143

	E1 for VW <sup>2)</sup>	O+I	O	C	<b>3SB31 10-5AE01</b>	1 unit	0.125
				B	<b>3SB31 10-5AE31</b>	1 unit	0.130

	E2 for VW <sup>2)</sup>	O	O	B	<b>3SB31 10-5AE31</b>	1 unit	0.126
				B	<b>3SB31 10-5AE41</b>	1 unit	0.133

	E7 for VW <sup>2)</sup>	O+I	O	B	<b>3SB31 10-5AE51</b>	1 unit	0.133
				B	<b>3SB31 10-5AE71</b>	1 unit	0.130

O.M.R. <sup>3)</sup>	73038	O+I	O	B	<b>3SB31 10-3AG11</b>	1 unit	0.128
				B	<b>3SB31 10-3AG01</b>	1 unit	0.129
				B	<b>3SB31 10-3AH11</b>	1 unit	0.135
				B	<b>3SB31 10-3AH01</b>	1 unit	0.127

	73034	O+I	O	B	<b>3SB31 10-3AJ11</b>	1 unit	0.127
				B	<b>3SB31 10-3AJ01</b>	1 unit	0.129

	73033	O+I	O	B	<b>3SB31 10-3AK11</b>	1 unit	0.126
				B	<b>3SB31 10-3AK01</b>	1 unit	0.129

RONIS	SB 30	O	B	<b>3SB31 10-4BD01</b>	1 unit	0.090
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CES	SSG 10	O	B	<b>3SB31 10-4MD01</b>	1 unit	0.145
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IKON	360012 K1	O	C	<b>3SB31 10-5MD01</b>	1 unit	0.151
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BKS	S1	O	C	<b>3SB31 10-5BD01</b>	1 unit	0.142
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O.M.R. <sup>3)</sup>	73034	O	B	<b>3SB31 10-3BJ01</b>	1 unit	0.127
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CES key-operated switch



O.M.R. key-operated switch

Switching sequence O-I,  
50° operating angle,  
momentary contact type  
(return from right)



For special designs, see page 9/39.

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Supplied without the key.

3) Designed to FIAT specification; also available for other customers.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Plastic version, square  
Actuating and signaling elements

Version	Type	Lock No./ Color	Key removal position	DT	Order No.	PS*	Weight per PU, approx. kg
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### Key-operated switches with holders<sup>1)</sup>

#### Key-operated switch with 2 keys and 3 switch positions



RONIS key-operated switch

Switching sequence I-O-II  
2 × 50° operating angle  
latching



RONIS	SB 30	I+O+II	B	<b>3SB31 10-4DD11</b>	1 unit	0.060
		O	B	<b>3SB31 10-4DD01</b>	1 unit	0.062
		I+II	B	<b>3SB31 10-4DD41</b>	1 unit	0.061
CES	SSG 10	I+O+II	B	<b>3SB31 10-4PD11</b>	1 unit	0.142
		O	B	<b>3SB31 10-4PD01</b>	1 unit	0.145
O.M.R <sup>2)</sup>	73037 red	O	C	<b>3SB31 10-3DH01</b>	1 unit	0.127
	73034 black	I+O+II	C	<b>3SB31 10-3DJ11</b>	1 unit	0.128
		O		<b>3SB31 10-3DJ01</b>		



CES key-operated switch

Switching sequence I-O-II,  
2 × 50° operating angle,  
latching (return from right and left)



RONIS flat	SB 30	O	B	<b>3SB31 10-4ED01</b>	1 unit	0.060
CES	SSG 10	O	B	<b>3SB31 10-4QD01</b>	1 unit	0.145
IKON	360012 K1	O		<b>3SB31 10-5QD01</b>		

Switching sequence I-O-II  
2 × 50° operating angle  
momentary contact type to the left,  
latching to the right  
(return from left)



CES	SSG 10	O	B	<b>3SB31 10-4SD01</b>	1 unit	0.145
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O.M.R. key-operated switch

Switching sequence I-O-II  
2 × 50° operating angle  
latching to the left,  
momentary contact type to the right  
(return from right)



RONIS	SB 30	O	C	<b>3SB31 10-4FD01</b>	1 unit	0.062
CES	SSG 10	O+I	C	<b>3SB31 10-4RD51</b>	1 unit	0.144
BKS	S1	I	C	<b>3SB31 10-5FD21</b>	1 unit	0.145

For special designs, see page 9/39.








1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) Designed to FIAT specification; also available for other customers.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter



Plastic version, square  
Actuating and signaling elements

Version	Color of actuator / position for key removal	DT	Order No.	PS*	Weight per PU, approx. kg
<b>EMERGENCY-STOP control devices according to EN 418 and IEC 60947-5-5 with holder<sup>1)2)</sup></b> Also for use with 3TK28 contactor safety combinations (see Section 11)					
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching,</b> rotate to unlatch the knob to the left	red		B	<b>3SB31 10-1HA20</b> 1 unit 0.056
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching, with RONIS key-operated switch</b> (with 2 keys), lock No. SB 30, unlatching is only possible with a key	red ON/OFF		B	<b>3SB31 10-1BA20</b> 1 unit 0.089
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching, with CES key-operated switch</b> (with 2 keys), lock No. SSG 10, unlatching is only possible with a key	red ON/OFF		B	<b>3SB31 10-1KA20</b> 1 unit 0.118
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching, with BKS key-operated switch</b> (with 2 keys), lock No. S1, unlocking only possible using key	red ON/OFF		B	<b>3SB31 10-1LA20</b> 1 unit 0.118
	<b>Mushroom pushbutton, Ø 40 mm, with positive latching function, with O.M.R. key-operated switch</b> (with 2 keys), lock No. 73037, unlatching is only possible with a key	red ON/OFF		B	<b>3SB31 10-1MA20</b> 1 unit 0.125

For special designs, see page 9/39.

1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

2) The yellow backing plate must be ordered separately, see Accessories.

Version	Color of lens	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Signaling elements with holder<sup>1)</sup></b>					
	<b>Indicator light</b>	red yellow green blue white clear		B	<b>3SB31 11-6AA20</b> 5 units 0.024
				B	<b>3SB31 11-6AA30</b> 5 units 0.024
				B	<b>3SB31 11-6AA40</b> 5 units 0.024
				B	<b>3SB31 11-6AA50</b> 5 units 0.024
				B	<b>3SB31 11-6AA60</b> 5 units 0.024
				B	<b>3SB31 11-6AA70</b> 5 units 0.024



1) Also available without holder. Supplement Order No. with "-Z" and quote order code "B01".

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Metal version, round  
Complete unit combinations

### Selection and ordering data

Version	Lamp voltage	Color of actuator	Contacts for front plate mounting version	DT	Order No.	PS*	Weight per PU, approx.			
	V						kg			
 <p>Pushbutton with flat button</p>		black	1 NO	▶	<b>3SB36 02-0AA11</b>	1 unit	0.092			
		black	1 NC	B	<b>3SB36 03-0AA11</b>	1 unit	0.092			
		red	1 NC	▶	<b>3SB36 03-0AA21</b>	1 unit	0.092			
		yellow	1 NO	B	<b>3SB36 02-0AA31</b>	1 unit	0.090			
		green	1 NO	▶	<b>3SB36 02-0AA41</b>	1 unit	0.090			
		blue	1 NO	B	<b>3SB36 02-0AA51</b>	1 unit	0.092			
		white	1 NO	▶	<b>3SB36 02-0AA61</b>	1 unit	0.092			
		black	1 NO + 1 NC	B	<b>3SB36 01-0AA11</b>	1 unit	0.099			
		red	1 NO + 1 NC	B	<b>3SB36 01-0AA21</b>	1 unit	0.097			
		yellow	1 NO + 1 NC	B	<b>3SB36 01-0AA31</b>	1 unit	0.097			
		green	1 NO + 1 NC	B	<b>3SB36 01-0AA41</b>	1 unit	0.097			
		blue	1 NO + 1 NC	B	<b>3SB36 01-0AA51</b>	1 unit	0.097			
		white	1 NO + 1 NC	B	<b>3SB36 01-0AA61</b>	1 unit	0.097			
		 <p>Illuminated pushbutton with flat button</p>	AC/DC 24	red <sup>1)</sup>	1 NC	▶	<b>3SB36 46-0AA21</b>	1 unit	0.100	
yellow <sup>1)</sup>	1 NO			B	<b>3SB36 45-0AA31</b>	1 unit	0.103			
green <sup>1)</sup>	1 NO			▶	<b>3SB36 45-0AA41</b>	1 unit	0.103			
blue <sup>1)</sup>	1 NO			B	<b>3SB36 45-0AA51</b>	1 unit	0.101			
white	1 NO			B	<b>3SB36 45-0AA61</b>	1 unit	0.103			
clear <sup>1)</sup>	1 NO			▶	<b>3SB36 45-0AA71</b>	1 unit	0.101			
red <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB36 47-0AA21</b>	1 unit	0.107			
yellow <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB36 47-0AA31</b>	1 unit	0.107			
green <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB36 47-0AA41</b>	1 unit	0.107			
blue <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB36 47-0AA51</b>	1 unit	0.107			
white	1 NO + 1 NC			B	<b>3SB36 47-0AA61</b>	1 unit	0.110			
clear <sup>1)</sup>	1 NO + 1 NC			B	<b>3SB36 47-0AA71</b>	1 unit	0.107			
with integrated LED	AC 110			red <sup>1)</sup>	1 NC	B	<b>3SB36 50-0AA21</b>	1 unit	0.103	
				yellow <sup>1)</sup>	1 NO	B	<b>3SB36 57-0AA31</b>	1 unit	0.095	
			green <sup>1)</sup>	1 NO	B	<b>3SB36 57-0AA41</b>	1 unit	0.103		
			blue <sup>1)</sup>	1 NO	B	<b>3SB36 57-0AA51</b>	1 unit	0.109		
			white	1 NO	B	<b>3SB36 57-0AA61</b>	1 unit	0.099		
			clear <sup>1)</sup>	1 NO	B	<b>3SB36 57-0AA71</b>	1 unit	0.095		
			red <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB36 51-0AA21</b>	1 unit	0.108		
			yellow <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB36 51-0AA31</b>	1 unit	0.103		
			green <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB36 51-0AA41</b>	1 unit	0.108		
			blue <sup>1)</sup>	1 NO + 1 NC	D	<b>3SB36 51-0AA51</b>	1 unit	0.103		
			white	1 NO + 1 NC	B	<b>3SB36 51-0AA61</b>	1 unit	0.102		
			clear <sup>1)</sup>	1 NO + 1 NC	D	<b>3SB36 51-0AA71</b>	1 unit	0.107		
			with integrated LED	AC 230	red <sup>1)</sup>	1 NC	▶	<b>3SB36 54-0AA21</b>	1 unit	0.101
					yellow <sup>1)</sup>	1 NO	B	<b>3SB36 53-0AA31</b>	1 unit	0.103
green <sup>1)</sup>	1 NO				▶	<b>3SB36 53-0AA41</b>	1 unit	0.104		
blue <sup>1)</sup>	1 NO				B	<b>3SB36 53-0AA51</b>	1 unit	0.103		
white	1 NO	B			<b>3SB36 53-0AA61</b>	1 unit	0.101			
clear <sup>1)</sup>	1 NO	▶			<b>3SB36 53-0AA71</b>	1 unit	0.101			
red <sup>1)</sup>	1 NO + 1 NC	B			<b>3SB36 55-0AA21</b>	1 unit	0.106			
yellow <sup>1)</sup>	1 NO + 1 NC	B			<b>3SB36 55-0AA31</b>	1 unit	0.106			
green <sup>1)</sup>	1 NO + 1 NC	B			<b>3SB36 55-0AA41</b>	1 unit	0.108			
blue <sup>1)</sup>	1 NO + 1 NC	D			<b>3SB36 55-0AA51</b>	1 unit	0.102			
white	1 NO + 1 NC	B			<b>3SB36 55-0AA61</b>	1 unit	0.108			
clear <sup>1)</sup>	1 NO + 1 NC	B			<b>3SB36 55-0AA71</b>	1 unit	0.102			
with lampholder BA 9s, (without lamp)		red <sup>1)</sup>			1 NC	B	<b>3SB36 07-0AA21</b>	1 unit	0.100	
		yellow <sup>1)</sup>			1 NO	B	<b>3SB36 06-0AA31</b>	1 unit	0.102	
		green <sup>1)</sup>	1 NO	B	<b>3SB36 06-0AA41</b>	1 unit	0.102			
		blue <sup>1)</sup>	1 NO	B	<b>3SB36 06-0AA51</b>	1 unit	0.100			
		white	1 NO	B	<b>3SB36 06-0AA61</b>	1 unit	0.102			
		clear <sup>1)</sup>	1 NO	B	<b>3SB36 06-0AA71</b>	1 unit	0.100			
		red <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB36 05-0AA21</b>	1 unit	0.107			
		yellow <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB36 05-0AA31</b>	1 unit	0.105			
		green <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB36 05-0AA41</b>	1 unit	0.107			
		blue <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB36 05-0AA51</b>	1 unit	0.107			
		white	1 NO + 1 NC	B	<b>3SB36 05-0AA61</b>	1 unit	0.106			
		clear <sup>1)</sup>	1 NO + 1 NC	B	<b>3SB36 05-0AA71</b>	1 unit	0.106			

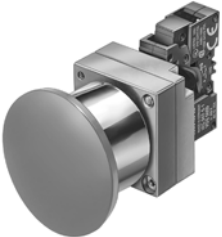
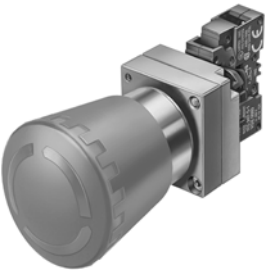
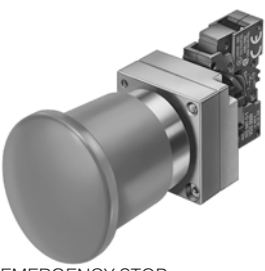
1) Inscription is possible by inserting a label.



# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

**Metal version, round**  
**Complete unit combinations**

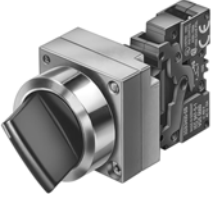


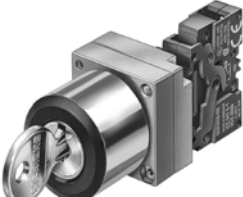


Version	Color of actuator	Contacts for front plate mounting	DT	Order No.	PS*	Weight per PU, approx. kg
 Mushroom push-pull button	red	1 NC	B	<b>3SB36 03-1CA21</b>	1 unit	0.100
		1 NO + 1 NC	B	<b>3SB36 01-1CA21</b>	1 unit	0.107
<b>EMERGENCY-STOP control devices according to EN 418 with yellow name plate, Ø 80 mm, labeled.</b> <b>Can also be used with 3TK28 contactor safety combinations (see Section 11)</b>						
 EMERGENCY-STOP mushroom pushbutton with rotary unlocking	red	1 NC	→ <sup>1)</sup> ▶	<b>3SB36 03-1HA20</b>	1 unit	0.131
		1 NO + 1 NC	→ <sup>1)</sup> B	<b>3SB36 01-1HA20</b>	1 unit	0.137
 EMERGENCY-STOP mushroom pushbutton with pull-to-unlatch mechanism	red	1 NC	→ <sup>1)</sup> B	<b>3SB36 03-1TA20</b>	1 unit	0.131
		1 NO + 1 NC	→ <sup>1)</sup> B	<b>3SB36 01-1TA20</b>	1 unit	0.137


1) Positive opening according to IEC 60947-5-1, Appendix K.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

**Metal version, round**  
**Complete unit combinations**

Version	Color of handle/ lock No.	Contacts for front plate mounting version	DT	Order No.	PS*	Weight per PU, approx. kg	
 <p>Non-illuminated selector switch</p>	<b>Selector switch, 2 switch positions</b> switching sequence O-I 50° operating angle latching 		black, <b>standard version</b>	1 NO 1 NO + 1 NC	▶ B B	▶ <b>3SB36 02-2KA11</b> <b>3SB36 01-2KA11</b>	1 unit 0.095 1 unit 0.102
			black, <b>heavy duty version</b>	1 NO 1 NO + 1 NC	C C	▶ <b>3SB36 02-2PA11</b> <b>3SB36 01-2PA11</b>	1 unit 0.111 1 unit 0.119
	<b>Selector switch, 3 switch positions</b> switching sequence I-O-II 2 × 50° operating angle latching 		black, <b>standard version</b>	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	▶ B ▶ B	▶ <b>3SB36 10-2DA11</b> <b>3SB36 08-2DA11</b>	1 unit 0.105 1 unit 0.117
			black, <b>heavy duty version</b>	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	C C	▶ <b>3SB36 10-2SA11</b> <b>3SB36 08-2SA11</b>	1 unit 0.121 1 unit 0.134
 <p>RONIS key-operated switch</p>	momentary-contact type 		black, <b>standard version</b>	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	▶ B ▶ B	▶ <b>3SB36 10-2EA11</b> <b>3SB36 08-2EA11</b>	1 unit 0.103 1 unit 0.119
			black, <b>heavy duty version</b>	1 NO, 1 NO 1 NO + 1 NC, 1 NO + 1 NC	C C	▶ <b>3SB36 10-2TA11</b> <b>3SB36 08-2TA11</b>	1 unit 0.122 1 unit 0.135
	<b>Key-operated switch RONIS, flat, 2 switch positions,</b> key can be removed in any position switching sequence O-I, 50° operating angle, latching 		SB 30	1 NO 1 NO + 1 NC	▶ B ▶ B	▶ <b>3SB36 02-4AD11</b> <b>3SB36 01-4AD11</b>	1 unit 0.119 1 unit 0.124








Version	Lamp voltage	Color of lens	DT	Order No.	PS*	Weight per PU, approx. kg
 <p>Indicator light</p>	V	AC/DC 24	red yellow green blue white clear	▶ B	▶ <b>3SB36 44-6BA20</b>	1 unit 0.080
				B	▶ <b>3SB36 44-6BA30</b>	1 unit 0.080
				▶ B	▶ <b>3SB36 44-6BA40</b>	1 unit 0.081
				B	▶ <b>3SB36 44-6BA50</b>	1 unit 0.080
				B	▶ <b>3SB36 44-6BA60</b>	1 unit 0.080
				▶ B	▶ <b>3SB36 44-6BA70</b>	1 unit 0.080
	with integrated LED	AC 110	red yellow green blue white clear	B	▶ <b>3SB36 48-6BA20</b>	1 unit 0.081
				B	▶ <b>3SB36 48-6BA30</b>	1 unit 0.081
				B	▶ <b>3SB36 48-6BA40</b>	1 unit 0.081
				B	▶ <b>3SB36 48-6BA50</b>	1 unit 0.077
				B	▶ <b>3SB36 48-6BA60</b>	1 unit 0.081
				B	▶ <b>3SB36 48-6BA70</b>	1 unit 0.075
	with integrated LED	AC 230	red yellow green blue white clear	▶ B	▶ <b>3SB36 52-6BA20</b>	1 unit 0.081
				B	▶ <b>3SB36 52-6BA30</b>	1 unit 0.081
				▶ B	▶ <b>3SB36 52-6BA40</b>	1 unit 0.081
				B	▶ <b>3SB36 52-6BA50</b>	1 unit 0.079
B				▶ <b>3SB36 52-6BA60</b>	1 unit 0.081	
▶ B				▶ <b>3SB36 52-6BA70</b>	1 unit 0.081	
with lampholder BA 9s, (without lamp)		red yellow green blue white clear	B	▶ <b>3SB36 04-6BA20</b>	1 unit 0.079	
			B	▶ <b>3SB36 04-6BA30</b>	1 unit 0.079	
			B	▶ <b>3SB36 04-6BA40</b>	1 unit 0.080	
			B	▶ <b>3SB36 04-6BA50</b>	1 unit 0.077	
			B	▶ <b>3SB36 04-6BA60</b>	1 unit 0.079	
			B	▶ <b>3SB36 04-6BA70</b>	1 unit 0.077	

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Metal version, round  
Actuating and signaling elements

### Selection and ordering data







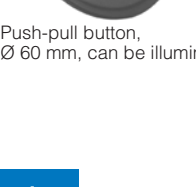

Version	Inscription	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg	
<b>Pushbuttons with holders</b>							
 Pushbutton with flat button	<b>Pushbutton with flat button</b>	black	▶	<b>3SB35 00-0AA11</b>	5 units	0.074	
		red	▶	<b>3SB35 00-0AA21</b>	5 units	0.074	
		yellow	B	<b>3SB35 00-0AA31</b>	5 units	0.074	
		green	▶	<b>3SB35 00-0AA41</b>	5 units	0.074	
		blue	B	<b>3SB35 00-0AA51</b>	5 units	0.074	
		white	▶	<b>3SB35 00-0AA61</b>	5 units	0.074	
		gray	▶	<b>3SB35 00-0AB51</b>	5 units	0.073	
		clear <sup>1)</sup>	B	<b>3SB35 00-0AA71</b>	5 units	0.074	
		I	green	B	<b>3SB35 00-0AA81</b>	5 units	0.074
		O	red	B	<b>3SB35 00-0AB01</b>	5 units	0.074
 Pushbutton with raised button	<b>Pushbutton with raised button</b>	black	B	<b>3SB35 00-0BA11</b>	1 unit	0.075	
		red	B	<b>3SB35 00-0BA21</b>	1 unit	0.075	
		yellow	B	<b>3SB35 00-0BA31</b>	1 unit	0.075	
		green	B	<b>3SB35 00-0BA41</b>	1 unit	0.074	
		blue	B	<b>3SB35 00-0BA51</b>	1 unit	0.073	
 Pushbutton with raised front ring	<b>Pushbutton with raised front ring</b> (Height 15.5 mm)	black	B	<b>3SB35 00-0AA12</b>	1 unit	0.075	
		red	B	<b>3SB35 00-0AA22</b>	1 unit	0.079	
		yellow	B	<b>3SB35 00-0AA32</b>	1 unit	0.074	
		green	B	<b>3SB35 00-0AA42</b>	1 unit	0.075	
		blue	B	<b>3SB35 00-0AA52</b>	1 unit	0.074	
 Illuminated pushbutton with flat button	<b>Illuminated pushbutton with flat button</b> incl. holder for 3 elements	red <sup>1)</sup>	▶	<b>3SB35 01-0AA21</b>	5 units	0.075	
		yellow <sup>1)</sup>	B	<b>3SB35 01-0AA31</b>	5 units	0.075	
		green <sup>1)</sup>	▶	<b>3SB35 01-0AA41</b>	5 units	0.075	
		blue <sup>1)</sup>	B	<b>3SB35 01-0AA51</b>	5 units	0.075	
		white	B	<b>3SB35 01-0AA61</b>	5 units	0.075	
 Illuminated pushbutton with raised button	<b>Illuminated pushbutton with raised button</b> incl. holder for 3 elements	red	B	<b>3SB35 01-0BA21</b>	1 unit	0.074	
		yellow	B	<b>3SB35 01-0BA31</b>	1 unit	0.075	
		green	B	<b>3SB35 01-0BA41</b>	1 unit	0.076	
		blue	B	<b>3SB35 01-0BA51</b>	1 unit	0.076	
		clear	B	<b>3SB35 01-0BA71</b>	1 unit	0.075	
 Pushbutton with flat button, latching, unlatching by pressing again	<b>Pushbutton with flat button, latching,</b> unlatching by pressing again	black	B	<b>3SB35 00-0DA11</b>	1 unit	0.077	
		red	B	<b>3SB35 00-0DA21</b>	1 unit	0.076	
		yellow	B	<b>3SB35 00-0DA31</b>	1 unit	0.076	
		green	B	<b>3SB35 00-0DA41</b>	1 unit	0.077	
		blue	B	<b>3SB35 00-0DA51</b>	1 unit	0.078	
		white	B	<b>3SB35 00-0DA61</b>	1 unit	0.075	
		gray	B	<b>3SB35 00-0DB51</b>	1 unit	0.077	
 Illuminated pushbutton with flat button, latching, unlatching by pressing again	<b>Illuminated pushbutton with flat button, latching,</b> unlatching by pressing again	red <sup>1)</sup>	B	<b>3SB35 01-0DA21</b>	1 unit	0.078	
		yellow <sup>1)</sup>	B	<b>3SB35 01-0DA31</b>	1 unit	0.078	
		green <sup>1)</sup>	B	<b>3SB35 01-0DA41</b>	1 unit	0.078	
		blue <sup>1)</sup>	B	<b>3SB35 01-0DA51</b>	1 unit	0.075	
		white	B	<b>3SB35 01-0DA61</b>	1 unit	0.078	
		clear <sup>1)</sup>	B	<b>3SB35 01-0DA71</b>	1 unit	0.078	

1) Inscription is possible by inserting a label.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

**Metal version, round**  
**Actuating and signaling elements**






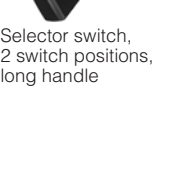




Version	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Mushroom pushbuttons with holders</b>					
	black red yellow green	B	<b>3SB35 00-1DA11</b>	1 unit	0.080
			<b>3SB35 00-1DA21</b>	1 unit	0.081
			<b>3SB35 00-1DA31</b>	1 unit	0.081
			<b>3SB35 00-1DA41</b>	1 unit	0.080
	black red yellow green	B	<b>3SB35 00-1GA11</b>	1 unit	0.084
			<b>3SB35 00-1GA21</b>	1 unit	0.084
			<b>3SB35 00-1GA31</b>	1 unit	0.084
			<b>3SB35 00-1GA41</b>	1 unit	0.084
	black red yellow green	B	<b>3SB35 00-1QA11</b>	1 unit	0.090
			<b>3SB35 00-1QA21</b>	1 unit	0.090
			<b>3SB35 00-1QA31</b>	1 unit	0.090
			<b>3SB35 00-1QA41</b>	1 unit	0.090
	yellow green white	B	<b>3SB35 01-1DA31</b>	1 unit	0.080
			<b>3SB35 01-1DA41</b>	1 unit	0.079
			<b>3SB35 01-1DA61</b>	1 unit	0.081
	yellow green white	B	<b>3SB35 01-1GA31</b>	1 unit	0.084
			<b>3SB35 01-1GA41</b>	1 unit	0.085
			<b>3SB35 01-1GA61</b>	1 unit	0.085
	yellow green white	B	<b>3SB35 01-1QA31</b>	1 unit	0.091
			<b>3SB35 01-1QA41</b>	1 unit	0.091
			<b>3SB35 01-1QA61</b>	1 unit	0.090
	black red	B	<b>3SB35 00-1EA11</b>	1 unit	0.081
			<b>3SB35 00-1EA21</b>	1 unit	0.080
	black red	B	<b>3SB35 00-1CA11</b>	1 unit	0.084
			<b>3SB35 00-1CA21</b>	1 unit	0.084
	black red	B	<b>3SB35 00-1RA11</b>	1 unit	0.090
			<b>3SB35 00-1RA21</b>	1 unit	0.091
	red yellow green blue clear	B	<b>3SB35 01-1EA21</b>	1 unit	0.082
			<b>3SB35 01-1EA31</b>	1 unit	0.080
			<b>3SB35 01-1EA41</b>	1 unit	0.080
			<b>3SB35 01-1EA51</b>	1 unit	0.082
			<b>3SB35 01-1EA71</b>	1 unit	0.080
	red yellow green blue clear	B	<b>3SB35 01-1CA21</b>	1 unit	0.084
			<b>3SB35 01-1CA31</b>	1 unit	0.085
			<b>3SB35 01-1CA41</b>	1 unit	0.086
			<b>3SB35 01-1CA51</b>	1 unit	0.084
			<b>3SB35 01-1CA71</b>	1 unit	0.084
	red yellow green blue clear	B	<b>3SB35 01-1RA21</b>	1 unit	0.092
			<b>3SB35 01-1RA31</b>	1 unit	0.089
			<b>3SB35 01-1RA41</b>	1 unit	0.090
			<b>3SB35 01-1RA51</b>	1 unit	0.120
			<b>3SB35 01-1RA71</b>	1 unit	0.090

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# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

**Metal version, round**  
**Actuating and signaling elements**





Version	Version Illumination	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Selector switches with holders</b>						
 <p>Selector switch, 2 switch positions, standard version</p>	<b>Selector switch with 2 switch positions</b> Switching sequence O-I, 90° operating angle, latching 	<b>Non-illuminated, standard version</b> black red green white	▶ A D B	<b>3SB35 00-2HA11</b>	1 unit	0.077
				<b>3SB35 00-2HA21</b>	1 unit	0.077
				<b>3SB35 00-2HA41</b>	1 unit	0.077
				<b>3SB35 00-2HA61</b>	1 unit	0.077
 <p>Selector switch, 2 switch positions, standard version</p>	Switching sequence O-I, 50° operating angle, latching 	<b>Non-illuminated, standard version</b> black red green white	▶ B B B B	<b>3SB35 00-2KA11</b>	1 unit	0.078
				<b>3SB35 00-2KA21</b>	1 unit	0.078
				<b>3SB35 00-2KA41</b>	1 unit	0.078
				<b>3SB35 00-2KA61</b>	1 unit	0.078
 <p>Selector switch, 2 switch positions, heavy-duty version</p>	<b>illuminated, standard version, incl. holder for 3 elements</b> red yellow green blue clear	B B B B B	B B B B B	<b>3SB35 01-2KA21</b>	1 unit	0.078
				<b>3SB35 01-2KA31</b>	1 unit	0.078
				<b>3SB35 01-2KA41</b>	1 unit	0.079
				<b>3SB35 01-2KA51</b>	1 unit	0.079
 <p>Selector switch, 2 switch positions, long handle</p>	<b>Non-illuminated, heavy-duty version</b> black red green white	C C C C	C C C C	<b>3SB35 00-2PA11</b>	1 unit	0.102
				<b>3SB35 00-2PA21</b>	1 unit	0.103
				<b>3SB35 00-2PA41</b>	1 unit	0.101
				<b>3SB35 00-2PA61</b>	1 unit	0.101
 <p>Selector switch, 2 switch positions, long handle</p>	<b>illuminated, heavy-duty version, incl. holder for 3 elements</b> red yellow green blue clear	C C C C C	C C C C C	<b>3SB35 01-2PA21</b>	1 unit	0.103
				<b>3SB35 01-2PA31</b>	1 unit	0.102
				<b>3SB35 01-2PA41</b>	1 unit	0.103
				<b>3SB35 01-2PA51</b>	1 unit	0.103
 <p>Selector switch, 2 switch positions, long handle</p>	<b>Non-illuminated, long handle</b> black red green white	C C C C	C C C C	<b>3SB35 00-3PA11</b>	1 unit	0.101
				<b>3SB35 00-3PA21</b>	1 unit	0.101
				<b>3SB35 00-3PA41</b>	1 unit	0.102
				<b>3SB35 00-3PA61</b>	1 unit	0.104
 <p>Selector switch, 2 switch positions, long handle</p>	<b>illuminated, long handle, incl. holder for 3 elements</b> red yellow green blue clear	C C C C C	C C C C C	<b>3SB35 01-3PA21</b>	1 unit	0.103
				<b>3SB35 01-3PA31</b>	1 unit	0.103
				<b>3SB35 01-3PA41</b>	1 unit	0.103
				<b>3SB35 01-3PA51</b>	1 unit	0.103
 <p>Selector switch, 2 switch positions, long handle</p>	<b>Non-illuminated, standard version</b> black red green white	▶ B B B	▶ B B B	<b>3SB35 00-2LA11</b>	1 unit	0.078
				<b>3SB35 00-2LA21</b>	1 unit	0.075
				<b>3SB35 00-2LA41</b>	1 unit	0.076
				<b>3SB35 00-2LA61</b>	1 unit	0.078
<p>Selector switch, 2 switch positions, long handle</p>	<b>illuminated, standard version, incl. holder for 3 elements</b> red yellow green blue clear	B B B B B	B B B B B	<b>3SB35 01-2LA21</b>	1 unit	0.080
				<b>3SB35 01-2LA31</b>	1 unit	0.082
				<b>3SB35 01-2LA41</b>	1 unit	0.078
				<b>3SB35 01-2LA51</b>	1 unit	0.077
<p>Selector switch, 2 switch positions, long handle</p>	<b>Non-illuminated, heavy-duty version</b> black red green white	C C C C	C C C C	<b>3SB35 00-2QA11</b>	1 unit	0.103
				<b>3SB35 00-2QA21</b>	1 unit	0.098
				<b>3SB35 00-2QA41</b>	1 unit	0.101
				<b>3SB35 00-2QA61</b>	1 unit	0.101
<p>Selector switch, 2 switch positions, long handle</p>	<b>illuminated, heavy-duty version, incl. holder for 3 elements</b> red yellow green blue clear	C C C C C	C C C C C	<b>3SB35 01-2QA21</b>	1 unit	0.103
				<b>3SB35 01-2QA31</b>	1 unit	0.102
				<b>3SB35 01-2QA41</b>	1 unit	0.103
				<b>3SB35 01-2QA51</b>	1 unit	0.101
<p>Selector switch, 2 switch positions, long handle</p>	<b>Non-illuminated, long handle</b> black red green white	C C C C	C C C C	<b>3SB35 00-3QA11</b>	1 unit	0.102
				<b>3SB35 00-3QA21</b>	1 unit	0.100
				<b>3SB35 00-3QA41</b>	1 unit	0.100
				<b>3SB35 00-3QA61</b>	1 unit	0.102
<p>Selector switch, 2 switch positions, long handle</p>	<b>illuminated, long handle, incl. holder for 3 elements</b> red yellow green blue clear	C C C C C	C C C C C	<b>3SB35 01-3QA21</b>	1 unit	0.102
				<b>3SB35 01-3QA31</b>	1 unit	0.103
				<b>3SB35 01-3QA41</b>	1 unit	0.103
				<b>3SB35 01-3QA51</b>	1 unit	0.103
<p>Selector switch, 2 switch positions, long handle</p>	<b>Non-illuminated, long handle</b> black red green white	C C C C	C C C C	<b>3SB35 01-3QA61</b>	1 unit	0.103
				<b>3SB35 01-3QA71</b>	1 unit	0.103
				<b>3SB35 01-3QA41</b>	1 unit	0.103
				<b>3SB35 01-3QA51</b>	1 unit	0.103
<p>Selector switch, 2 switch positions, long handle</p>	<b>illuminated, long handle, incl. holder for 3 elements</b> red yellow green blue clear	C C C C C	C C C C C	<b>3SB35 01-3QA61</b>	1 unit	0.103
				<b>3SB35 01-3QA71</b>	1 unit	0.103
				<b>3SB35 01-3QA41</b>	1 unit	0.103
				<b>3SB35 01-3QA51</b>	1 unit	0.103

\* This quantity or a multiple thereof can be ordered

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

**Metal version, round**  
Actuating and signaling elements

Version	Version illumination	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg			
<b>Selector switches with holders</b>									
 <p>Selector switch, 3 switch positions, standard version</p>	<b>Non-illuminated selector switch with 3 switch positions</b> Switching sequence I-O-II 2 × 50° operating angle latching			<b>Non-illuminated, standard version</b>	black red green white	▶ <b>3SB35 00-2DA11</b> B <b>3SB35 00-2DA21</b> B <b>3SB35 00-2DA41</b> B <b>3SB35 00-2DA61</b>	1 unit 1 unit 1 unit 1 unit	0.078 0.078 0.079 0.075	
	<b>Illuminated, standard version</b> incl. holder for 3 elements	red yellow green blue clear		B <b>3SB35 01-2DA21</b> B <b>3SB35 01-2DA31</b> B <b>3SB35 01-2DA41</b> B <b>3SB35 01-2DA51</b> B <b>3SB35 01-2DA71</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.079 0.079 0.079 0.078 0.079			
	<b>Non-illuminated, heavy-duty version</b>	black red green white		C <b>3SB35 00-2SA11</b> C <b>3SB35 00-2SA21</b> C <b>3SB35 00-2SA41</b> C <b>3SB35 00-2SA61</b>	1 unit 1 unit 1 unit 1 unit	0.104 0.101 0.101 0.101			
	<b>Illuminated, heavy-duty version</b> incl. holder for 3 elements	red yellow green blue clear		C <b>3SB35 01-2SA21</b> C <b>3SB35 01-2SA31</b> C <b>3SB35 01-2SA41</b> C <b>3SB35 01-2SA51</b> C <b>3SB35 01-2SA71</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.104 0.101 0.104 0.102 0.103			
	 <p>Selector switch, 3 switch positions, heavy-duty version</p>	<b>Non-illuminated, long handle</b>	black red green white	C <b>3SB35 00-3SA11</b> C <b>3SB35 00-3SA21</b> C <b>3SB35 00-3SA41</b> C <b>3SB35 00-3SA61</b>	1 unit 1 unit 1 unit 1 unit	0.104 0.102 0.102 0.103			
				<b>Illuminated, long handle, incl. holder for 3 elements</b>	red yellow green blue clear	C <b>3SB35 01-3SA21</b> C <b>3SB35 01-3SA31</b> C <b>3SB35 01-3SA41</b> C <b>3SB35 01-3SA51</b> C <b>3SB35 01-3SA71</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.103 0.103 0.102 0.103 0.101	
				 <p>Selector switch, 3 switch positions, long handle</p>	<b>Non-illuminated, standard version</b>	black red green white	▶ <b>3SB35 00-2EA11</b> B <b>3SB35 00-2EA21</b> B <b>3SB35 00-2EA41</b> B <b>3SB35 00-2EA61</b>	1 unit 1 unit 1 unit 1 unit	0.077 0.076 0.077 0.075
							<b>Illuminated, standard version</b> incl. holder for 3 elements	red yellow green blue clear	B <b>3SB35 01-2EA21</b> B <b>3SB35 01-2EA31</b> B <b>3SB35 01-2EA41</b> B <b>3SB35 01-2EA51</b> B <b>3SB35 01-2EA71</b>
		<b>Non-illuminated, heavy-duty version</b>	black red green white				C <b>3SB35 00-2TA11</b> C <b>3SB35 00-2TA21</b> C <b>3SB35 00-2TA41</b> C <b>3SB35 00-2TA61</b>	1 unit 1 unit 1 unit 1 unit	0.104 0.100 0.101 0.100
		<b>Illuminated, heavy-duty version</b> incl. holder for 3 elements	red yellow green blue clear				C <b>3SB35 01-2TA21</b> C <b>3SB35 01-2TA31</b> C <b>3SB35 01-2TA41</b> C <b>3SB35 01-2TA51</b> C <b>3SB35 01-2TA71</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.102 0.103 0.101 0.101 0.104
		<b>Non-illuminated, long handle</b>	black red green white		C <b>3SB35 00-3TA11</b> C <b>3SB35 00-3TA21</b> C <b>3SB35 00-3TA41</b> C <b>3SB35 00-3TA61</b>	1 unit 1 unit 1 unit 1 unit	0.104 0.101 0.102 0.102		
					<b>Illuminated, long handle, incl. holder for 3 elements</b>	red yellow green blue clear	C <b>3SB35 01-3TA21</b> C <b>3SB35 01-3TA31</b> C <b>3SB35 01-3TA41</b> C <b>3SB35 01-3TA51</b> C <b>3SB35 01-3TA71</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.102 0.102 0.103 0.102 0.103

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

**Metal version, round**  
**Actuating and signaling elements**

Version	Color of actuator	DT	Order No.	PS*	Weight per PU, approx. kg
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### Selector switches with holders



Selector switch, 3 switch positions, standard version

#### Non-illuminated selector switch with 3 switch positions

Switching sequence I-O-II  
2 × 50° operating angle  
momentary contact type to the left,  
latching to the right  
(return from left)



**Non-illuminated,<sup>1)</sup> standard version**

black  
red  
green  
white

B  
B  
B  
B

**3SB35 00-2GA11**  
**3SB35 00-2GA21**  
**3SB35 00-2GA41**  
**3SB35 00-2GA61**

1 unit 0.078  
1 unit 0.076  
1 unit 0.075  
1 unit 0.076

**Non-illuminated, heavy-duty version**

black  
red  
green  
white

C  
C  
C  
C

**3SB35 00-2VA11**  
**3SB35 00-2VA21**  
**3SB35 00-2VA41**  
**3SB35 00-2VA61**

1 unit 0.102  
1 unit 0.102  
1 unit 0.100  
1 unit 0.100

**Non-illuminated, long handle**

black  
red  
green  
white

C  
C  
C  
C

**3SB35 00-3VA11**  
**3SB35 00-3VA21**  
**3SB35 00-3VA41**  
**3SB35 00-3VA61**

1 unit 0.101  
1 unit 0.102  
1 unit 0.100  
1 unit 0.100



Selector switch, 3 switch positions, heavy-duty version

Switching sequence I-O-II  
2 × 50° operating angle  
latching to the left,  
momentary contact type to the right  
(return from right)



**Non-illuminated,<sup>1)</sup> standard version**

black  
red  
green  
white

B  
B  
B  
B

**3SB35 00-2FA11**  
**3SB35 00-2FA21**  
**3SB35 00-2FA41**  
**3SB35 00-2FA61**

1 unit 0.077  
1 unit 0.076  
1 unit 0.075  
1 unit 0.076

**Non-illuminated, heavy-duty version**

black  
red  
green  
white

C  
C  
C  
C

**3SB35 00-2UA11**  
**3SB35 00-2UA21**  
**3SB35 00-2UA41**  
**3SB35 00-2UA61**

1 unit 0.101  
1 unit 0.101  
1 unit 0.102  
1 unit 0.101

**Non-illuminated, long handle**

black  
red  
green  
white

C  
C  
C  
C

**3SB35 00-3UA11**  
**3SB35 00-3UA21**  
**3SB35 00-3UA41**  
**3SB35 00-3UA61**

1 unit 0.102  
1 unit 0.100  
1 unit 0.100  
1 unit 0.102



Selector switch, 3 switch positions, long handle

1) Also available as illuminated selector switch. When ordering, add "-Z" to the order number and indicate "illuminated selector switch" and the color in plain text.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

**Metal version, round**  
Actuating and signaling elements

Version	Type	Lock No./ Color	Key removal position	DT	Order No.	PS*	Weight per PU, approx. kg
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### Key-operated switches with holders

#### Key-operated switch with 2 keys, 2 switch positions

Switching sequence O-I,  
50° operating angle,  
latching



RONIS key-operated switch



CES key-operated switch



IKON key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

Switching sequence O-I,  
50° operating angle,  
momentary contact type  
(return from right)



RONIS	SB 30	O+I	▶	<b>3SB35 00-4AD11</b>	1 unit	0.108
		O	▶	<b>3SB35 00-4AD01</b>	1 unit	0.108
		I	B	<b>3SB35 00-4AD21</b>	1 unit	0.107
CES	SSG 10	O+I	▶	<b>3SB35 00-4LD11</b>	1 unit	0.186
		O	▶	<b>3SB35 00-4LD01</b>	1 unit	0.190
		I	B	<b>3SB35 00-4LD21</b>	1 unit	0.190
	LSG 1	O+I	B	<b>3SB35 00-4LF01</b>	1 unit	0.187
		O	B	<b>3SB35 00-4LF11</b>	1 unit	0.190
IKON	360012 K1	O+I	B	<b>3SB35 00-5LD11</b>	1 unit	0.196
		O	B	<b>3SB35 00-5LD01</b>	1 unit	0.196
BKS	S1	O+I	B	<b>3SB35 00-5AD11</b>	1 unit	0.184
		O	B	<b>3SB35 00-5AD01</b>	1 unit	0.188
		I	B	<b>3SB35 00-5AD21</b>	1 unit	0.186
	E1 for VW <sup>1)</sup>	O+I	B	<b>3SB35 00-5AE01</b>	1 unit	0.169
		O	B	<b>3SB35 00-5AE11</b>	1 unit	0.176
	E2 for VW <sup>1)</sup>	O+I	B	<b>3SB35 00-5AE21</b>	1 unit	0.170
		O	B	<b>3SB35 00-5AE31</b>	1 unit	0.174
	E7 for VW <sup>1)</sup>	O+I	B	<b>3SB35 00-5AE41</b>	1 unit	0.170
		O	B	<b>3SB35 00-5AE51</b>	1 unit	0.176
	E9 for VW <sup>1)</sup>	O+I	B	<b>3SB35 00-5AE61</b>	1 unit	0.169
		O	B	<b>3SB35 00-5AE71</b>	1 unit	0.174
O.M.R. <sup>2)</sup>	73038 light blue	O+I	B	<b>3SB35 00-3AG11</b>	1 unit	0.173
		O	B	<b>3SB35 00-3AG01</b>	1 unit	0.175
		I	B	<b>3SB35 00-3AG21</b>	1 unit	0.173
	73037 red	O+I	B	<b>3SB35 00-3AH11</b>	1 unit	0.172
		O	B	<b>3SB35 00-3AH01</b>	1 unit	0.172
		I	B	<b>3SB35 00-3AH21</b>	1 unit	0.174
	73034 black	O+I	B	<b>3SB35 00-3AJ11</b>	1 unit	0.172
		O	B	<b>3SB35 00-3AJ01</b>	1 unit	0.178
		I	B	<b>3SB35 00-3AJ21</b>	1 unit	0.173
	73033 yellow	O+I	B	<b>3SB35 00-3AK11</b>	1 unit	0.174
		O	B	<b>3SB35 00-3AK01</b>	1 unit	0.172
		I	B	<b>3SB35 00-3AK21</b>	1 unit	0.178
RONIS	SB 30	O	▶	<b>3SB35 00-4BD01</b>	1 unit	0.108
CES	SSG 10	O	▶	<b>3SB35 00-4MD01</b>	1 unit	0.191
	LSG 1	O	B	<b>3SB35 00-4MF11</b>	1 unit	0.190
IKON	360012 K1	O	B	<b>3SB35 00-5MD01</b>	1 unit	0.195
BKS	S1	O	B	<b>3SB35 00-5BD01</b>	1 unit	0.187
O.M.R. <sup>2)</sup>	73038 light blue	O	B	<b>3SB35 00-3BG01</b>	1 unit	0.174
	73037 red	O	B	<b>3SB35 00-3BH01</b>	1 unit	0.173
	73034 black	O	B	<b>3SB35 00-3BJ01</b>	1 unit	0.173
	73033 yellow	O	B	<b>3SB35 00-3BK01</b>	1 unit	0.174

For special designs, see page 9/39.

1) Supplied without the key.

2) Designed to FIAT specification; also available for other customers.



# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

**Metal version, round**  
**Actuating and signaling elements**

Version	Type	Lock No./ Color	Key removal position	DT	Order No.	PS*	Weight per PU, approx. kg
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### Key-operated switches with holders

#### Key-operated switch with 2 keys, 3 switch positions

Switching sequence I-O-II  
2 × 50° operating angle  
latching



RONIS key-operated switch



CES key-operated switch



IKON key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

Switching sequence I-O-II,  
2 × 50° operating angle,  
latching (return from right and left)



RONIS	SB 30	O+I+II	B	<b>3SB35 00-4DD11</b>	1 unit	0.108
		O	B	<b>3SB35 00-4DD01</b>	1 unit	0.108
		I+II	B	<b>3SB35 00-4DD41</b>	1 unit	0.112
		I	B	<b>3SB35 00-4DD21</b>	1 unit	0.108
		II	B	<b>3SB35 00-4DD31</b>	1 unit	0.107
		O+I	B	<b>3SB35 00-4DD51</b>	1 unit	0.110
CES	SSG 10	O+I+II	B	<b>3SB35 00-4PD11</b>	1 unit	0.187
		O	B	<b>3SB35 00-4PD01</b>	1 unit	0.191
		I+II	B	<b>3SB35 00-4PD41</b>	1 unit	0.189
		I	B	<b>3SB35 00-4PD21</b>	1 unit	0.190
		II	B	<b>3SB35 00-4PD31</b>	1 unit	0.191
IKON	360012 K1	O+I+II	B	<b>3SB35 00-5PD11</b>	1 unit	0.193
		O	B	<b>3SB35 00-5PD01</b>	1 unit	0.196
		I+II	C	<b>3SB35 00-5PD41</b>	1 unit	0.180
BKS	S1	O+I+II	B	<b>3SB35 00-5DD11</b>	1 unit	0.183
		O	C	<b>3SB35 00-5DD01</b>	1 unit	0.187
		I+II	C	<b>3SB35 00-5DD41</b>	1 unit	0.184
		I	B	<b>3SB35 00-5DD21</b>	1 unit	0.187
		II	C	<b>3SB35 00-5DD31</b>	1 unit	0.187
O.M.R. <sup>1)</sup>	73038 light blue	I+O+II	B	<b>3SB35 00-3DG11</b>	1 unit	0.171
		O	B	<b>3SB35 00-3DG01</b>	1 unit	0.171
		I+II	C	<b>3SB35 00-3DG41</b>	1 unit	0.174
	73037 red	I+O+II	B	<b>3SB35 00-3DH11</b>	1 unit	0.173
		O	B	<b>3SB35 00-3DH01</b>	1 unit	0.173
		I+II	C	<b>3SB35 00-3DH41</b>	1 unit	0.170
	73034 black	I+O+II	B	<b>3SB35 00-3DJ11</b>	1 unit	0.172
		O	B	<b>3SB35 00-3DJ01</b>	1 unit	0.173
		I+II	C	<b>3SB35 00-3DJ41</b>	1 unit	0.171
	73033 yellow	I+O+II	C	<b>3SB35 00-3DK11</b>	1 unit	0.172
		O	B	<b>3SB35 00-3DK01</b>	1 unit	0.173
		I+II	C	<b>3SB35 00-3DK41</b>	1 unit	0.173
RONIS	SB 30	O	B	<b>3SB35 00-4ED01</b>	1 unit	0.109
CES	SSG 10	O	B	<b>3SB35 00-4QD01</b>	1 unit	0.191
IKON	360012 K1	O	B	<b>3SB35 00-5QD01</b>	1 unit	0.196
BKS	S1	O	B	<b>3SB35 00-5ED01</b>	1 unit	0.189
O.M.R.	73038 light blue	O	C	<b>3SB35 00-3EG01</b>	1 unit	0.172
	73037 red	O	B	<b>3SB35 00-3EH01</b>	1 unit	0.175
73034 black	O	B	<b>3SB35 00-3EJ01</b>	1 unit	0.173	
73033 yellow	O	B	<b>3SB35 00-3EK01</b>	1 unit	0.175	

For special designs, see page 9/39.

1) Designed to FIAT specification; also available for other customers.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

**Metal version, round**  
**Actuating and signaling elements**

Version	Type	Lock No./ Color	Key removal position	DT	Order No.	PS*	Weight per PU, approx. kg
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### Key-operated switches with holder

#### Key-operated switch with 2 keys, 3 switch positions

Switching sequence I-O-II  
 2 × 50° operating angle  
 momentary contact type to the left,  
 latching to the right  
 (return from left)



RONIS key-operated switch



CES key-operated switch



IKON key-operated switch



BKS key-operated switch



O.M.R. key-operated switch

For special designs, see page 9/39.

Switching sequence I-O-II  
 2 × 50° operating angle  
 latching to the left,  
 momentary contact type to the right  
 (return from right)












RONIS	SB 30	O + II	B	<b>3SB35 00-4GD61</b>	1 unit	0.107
		O	B	<b>3SB35 00-4GD01</b>	1 unit	0.108
		II	B	<b>3SB35 00-4GD31</b>	1 unit	0.106
CES	SSG 10	O + II	B	<b>3SB35 00-4SD61</b>	1 unit	0.190
		O	B	<b>3SB35 00-4SD01</b>	1 unit	0.191
		II	B	<b>3SB35 00-4SD31</b>	1 unit	0.191
IKON	360012 K1	O	C	<b>3SB35 00-5SD01</b>	1 unit	0.196
		II	C	<b>3SB35 00-5SD31</b>	1 unit	0.180
BKS	S1	O + II	C	<b>3SB35 00-5GD61</b>	1 unit	0.175
		O	C	<b>3SB35 00-5GD01</b>	1 unit	0.175
		II	B	<b>3SB35 00-5GD31</b>	1 unit	0.188
O.M.R.	73038	O	C	<b>3SB35 00-3GG01</b>	1 unit	0.165
	light blue	II	C	<b>3SB35 00-3GG31</b>	1 unit	0.174
	73037	O	C	<b>3SB35 00-3GH01</b>	1 unit	0.173
	red	II	C	<b>3SB35 00-3GH31</b>	1 unit	0.165
	73034	O	C	<b>3SB35 00-3GJ01</b>	1 unit	0.170
	black	II	C	<b>3SB35 00-3GJ31</b>	1 unit	0.165
	73033	O	C	<b>3SB35 00-3GK01</b>	1 unit	0.165
	yellow	II	C	<b>3SB35 00-3GK31</b>	1 unit	0.165
RONIS	SB 30	O+I	B	<b>3SB35 00-4FD51</b>	1 unit	0.107
		O	B	<b>3SB35 00-4FD01</b>	1 unit	0.108
		I	B	<b>3SB35 00-4FD21</b>	1 unit	0.109
CES	SSG 10	O+I	B	<b>3SB35 00-4RD51</b>	1 unit	0.191
		O	B	<b>3SB35 00-4RD01</b>	1 unit	0.191
		I	B	<b>3SB35 00-4RD21</b>	1 unit	0.191
IKON	360012 K1	O+I	C	<b>3SB35 00-5RD51</b>	1 unit	0.180
		O	C	<b>3SB35 00-5RD01</b>	1 unit	0.180
		I	B	<b>3SB35 00-5RD21</b>	1 unit	0.200
BKS	S1	O+I	C	<b>3SB35 00-5FD51</b>	1 unit	0.175
		O	B	<b>3SB35 00-5FD01</b>	1 unit	0.190
		I	B	<b>3SB35 00-5FD21</b>	1 unit	0.190
O.M.R.	73038	O	B	<b>3SB35 00-3FG01</b>	1 unit	0.173
	light blue	I	B	<b>3SB35 00-3FG21</b>	1 unit	0.172
	73037	O	C	<b>3SB35 00-3FH01</b>	1 unit	0.175
	red	I	C	<b>3SB35 00-3FH21</b>	1 unit	0.165
	73034	O	B	<b>3SB35 00-3FJ01</b>	1 unit	0.175
	black	I	C	<b>3SB35 00-3FJ21</b>	1 unit	0.175
	73033	O	B	<b>3SB35 00-3FK01</b>	1 unit	0.171
	yellow	I	B	<b>3SB35 00-3FK21</b>	1 unit	0.130

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

**Metal version, round**  
**Actuating and signaling elements**

Version	Color of actuator / position for key removal	DT	Order No.	PS*	Weight per PU, approx. kg
<b>EMERGENCY-STOP control devices according to EN 418 and IEC 60947-5-5 with holder<sup>1)</sup></b> <b>Also for use with 3TK28 contactor safety combinations (see Section 11)</b>					
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 32 mm,</b> with positive latching function acc. to EN 418, rotate to unlatch	red	B	<b>3SB35 00-1FA20</b>	1 unit 0.080
Mushroom diameter 32 mm					
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 40 mm,</b> with positive latching function acc. to EN 418, rotate to unlatch	red	▶	<b>3SB35 00-1HA20</b>	1 unit 0.114
Mushroom diameter 40 mm, rotate to unlatch					
	with unlocking device		B	<b>3SB35 00-1TA20</b>	1 unit 0.113
Mushroom diameter 40 mm, rotate to unlatch					
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 60 mm,</b> with positive latching function acc. to EN 418, rotate to unlatch	red	B	<b>3SB35 00-1AA20</b>	1 unit 0.145
Mushroom diameter 40 mm, pull to unlatch					
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 40 mm,</b> <b>with RONIS key-operated switch</b> (with 2 keys), lock No. SB 30, with positive latching to EN 418, unlocking using key	red ON/OFF	B	<b>3SB35 00-1BA20</b>	1 unit 0.145
Mushroom diameter 40 mm, pull to unlatch					
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 40 mm,</b> <b>with CES key-operated switch</b> (with 2 keys), lock No. SSG 10, with positive latching to EN 418, unlocking using key	red ON/OFF	B	<b>3SB35 00-1KA20</b>	1 unit 0.173
Mushroom diameter 60 mm					
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 40 mm,</b> <b>with IKON key-operated switch</b> (with 2 keys), lock No. 360012 K1 with positive latching to EN 418, unlocking using key	red ON/OFF	B	<b>3SB35 00-1UA20</b>	1 unit 0.173
Mushroom diameter 60 mm					
	<b>EMERGENCY-STOP mushroom pushbutton, Ø 40 mm,</b> <b>with BKS key-operated switch</b> (with 2 keys), lock No. S1, with positive latching to EN 418, unlocking using key	red ON/OFF	B	<b>3SB35 00-1LA20</b>	1 unit 0.171
Mushroom diameter 40 mm, with key-operated switch					
	<b>Mushroom pushbutton, Ø 40 mm,</b> <b>with O.M.R. key-operated switch</b> (with 2 keys), lock No. 73037 with positive latching to EN 418, unlocking using key	red ON/OFF	B	<b>3SB35 00-1MA20</b>	1 unit 0.179
Mushroom diameter 40 mm, with key-operated switch					


For special designs, see page 9/39.

1) The yellow backing plates must be ordered separately, see Accessories.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

**Metal version, round**  
**Actuating and signaling elements**



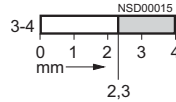

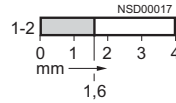


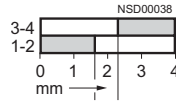

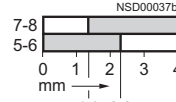

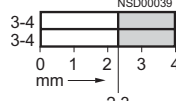

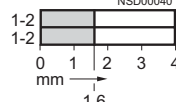
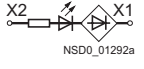
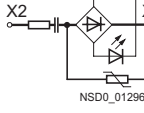
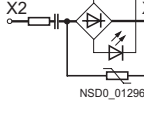
Version	Color of lens	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Signaling elements with holders</b>					
 <p>Indicator light with smooth lens</p>	<b>Indicator light with lens with concentric rings</b>		▶ <b>3SB35 01-6BA20</b>	5 units	0.062
			B <b>3SB35 01-6BA30</b>	5 units	0.062
			▶ <b>3SB35 01-6BA40</b>	5 units	0.062
			B <b>3SB35 01-6BA50</b>	5 units	0.062
			B <b>3SB35 01-6BA60</b>	5 units	0.062
			▶ <b>3SB35 01-6BA70</b>	5 units	0.062
	<b>Indicator light with smooth lens</b>		B <b>3SB35 01-6AA20</b>	5 units	0.062
			B <b>3SB35 01-6AA30</b>	5 units	0.062
			B <b>3SB35 01-6AA40</b>	5 units	0.062
			B <b>3SB35 01-6AA50</b>	5 units	0.062
			▶ <b>3SB35 01-6AA60</b>	5 units	0.062
			B <b>3SB35 01-6AA70</b>	5 units	0.062

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Switch blocks and lampholders

#### Selection and ordering data

Version	Symbols	Color / contact travel	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Switch blocks with screw terminals, for front plate mounting</b>						
	<b>Switch block with one contact</b> 50 mm mounting depth 1 NO			▶	<b>3SB34 00-0B</b>	1 unit 0.011
	1 NC <span style="color: blue;">→</span> <sup>1)</sup>			▶	<b>3SB34 00-0C</b>	1 unit 0.011
	<b>Switch blocks with 2 contacts</b> 65 mm mounting depth (incl. device identification label) 1 NO + 1 NC <span style="color: blue;">→</span> <sup>1)</sup>			▶	<b>3SB34 00-0A</b>	1 unit 0.018
	1 NO leading + 1 NC delayed			B	<b>3SB34 00-0H</b>	1 unit 0.018
	2 NO			B	<b>3SB34 00-0D</b>	1 unit 0.018
	2 NC <span style="color: blue;">→</span> <sup>1)</sup>			B	<b>3SB34 00-0E</b>	1 unit 0.018
	<b>Lampholders with integrated LED</b> AC/DC 24 V		yellow red green blue white	B	<b>3SB34 00-1PA</b> <b>3SB34 00-1PB</b> <b>3SB34 00-1PC</b> <b>3SB34 00-1PD</b> <b>3SB34 00-1PE</b>	1 unit 0.011 1 unit 0.011 1 unit 0.011 1 unit 0.011 1 unit 0.011
AC 110 V		yellow red green blue white	B	<b>3SB34 00-1QA</b> <b>3SB34 00-1QB</b> <b>3SB34 00-1QC</b> <b>3SB34 00-1QD</b> <b>3SB34 00-1QE</b>	1 unit 0.011 1 unit 0.012 1 unit 0.012 1 unit 0.011 1 unit 0.012	
AC 230 V		yellow red green blue white	B	<b>3SB34 00-1RA</b> <b>3SB34 00-1RB</b> <b>3SB34 00-1RC</b> <b>3SB34 00-1RD</b> <b>3SB34 00-1RE</b>	1 unit 0.012 1 unit 0.012 1 unit 0.012 1 unit 0.012 1 unit 0.012	

1) Positive opening according to IEC 60947-5-1, Appendix K.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Switch blocks and lampholders



Version	Rated voltage lamp	Symbols	DT	Order No.	PS*	Weight per PU, approx.
	V					kg
<b>Switch blocks with screw connection, for front plate mounting</b>						
<b>BA 9s lampholder, 50 mm mounting depth</b>						
without lamp	according to lamp		▶	<b>3SB34 00-1A</b>	1 unit	0.010
with 24 V incandescent lamp (3SX1 344)	AC/DC 24 V		B	<b>3SB34 00-1D</b>	1 unit	0.012
<b>BA 9s lampholder, 50 mm mounting depth</b>						
with built-in resistor for longer endurance and with 130 V lamp (3SX1 731) <sup>1)</sup>	AC 110/130 V		B	<b>3SB34 00-1B</b>	1 unit	0.013
with integrated voltage reducer and with 130 V lamp (3SX1 731) <sup>1)</sup>	AC 230/240 V		B	<b>3SB34 00-1C</b>	1 unit	0.013
<b>BA 9s lampholder, with separate lamp test function<sup>2) 3)</sup></b>						
with integrated voltage reducer and with 130 V lamp (3SX1 731) <sup>1)</sup>	AC 230/240 V		B	<b>3SB34 00-1F</b>	1 unit	0.019
without lamp for incandescent lamp, max. 2.6 W for LED lamp, AC/DC Not suitable for LED, AC or DC	according to lamp		B	<b>3SB34 00-1G</b>	1 unit	0.016
without lamp for incandescent lamp, max. 2.6 W for LED lamp, AC or DC Also suitable for 230 V LED. For connecting to DC, X5 must be connected to L-.	according to lamp		B	<b>3SB34 00-1L</b>	1 unit	0.017
without lamp for incandescent lamp, max. 2.6 W for glow lamp, AC	according to lamp		B	<b>3SB34 00-1H</b>	1 unit	0.016
<b>Transformer</b>						
for snapping onto 3SB34 00-1A	127 V / 24 V		B	<b>3SB34 00-3A</b>	1 unit	0.109
lampholder for incandescent lamp, 2 W	240 V / 24 V		B	<b>3SB34 00-3C</b>	1 unit	0.108
	400 V / 24 V		B	<b>3SB34 00-3F</b>	1 unit	0.108
	127 V / 6 V		B	<b>3SB34 00-3M</b>	1 unit	0.108
	240 V / 6 V		B	<b>3SB34 00-3P</b>	1 unit	0.107
	400 V / 6 V	B	<b>3SB34 00-3S</b>	1 unit	0.107	
<b>Switch block with 2 diodes</b>						
Type 1N 4007	$U_{RMS} = \text{max. } 250 \text{ V}$ $I_{FAV} = 0.8 \text{ A}$ at $T_u = 60 \text{ }^\circ\text{C}$		B	<b>3SB34 00-1N</b>	1 unit	0.015

1) Use these lamps only.



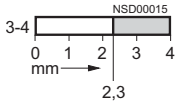

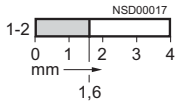


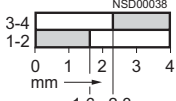

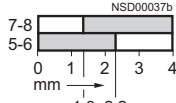

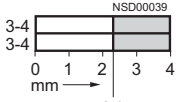

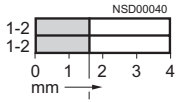


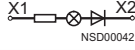


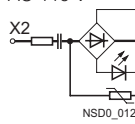
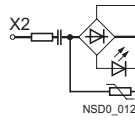
2) The lampholder with separate lamp test function can not be installed in an enclosure.

3) For example of circuits, see page 9/65.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Switch blocks and lampholders

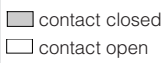




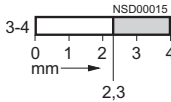


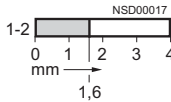



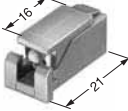
Version	Rated voltage lamp/ graphic symbol	Color/ contact travel	DT	Order No.	PS*	Weight per PU, approx.	
		<input type="checkbox"/> contact closed <input type="checkbox"/> contact open				kg	
<b>Switch blocks with spring-loaded terminals, for front panel mounting</b>							
	<b>Switch block with 1 contact,</b> 50 mm mounting depth, grid 30 mm x 30 mm						
	1 NO			B	<b>3SB34 03-0B</b>	1 unit	0.008
	1 NC <span style="color: blue;">→</span> <sup>1)</sup>			B	<b>3SB34 03-0C</b>	1 unit	0.008
	<b>Switch block with 2 contacts,</b> 65 mm mounting depth						
	1 NO + 1 NC <span style="color: blue;">→</span> <sup>1)</sup>			B	<b>3SB34 03-0A</b>	1 unit	0.008
	1 NO leading + 1 NC delayed			B	<b>3SB34 03-0H</b>	1 unit	0.008
	2 NO			B	<b>3SB34 03-0D</b>	1 unit	0.008
	2 NC <span style="color: blue;">→</span> <sup>1)</sup>			B	<b>3SB34 03-0E</b>	1 unit	0.008
	<b>BA 9s lampholder,</b> 50 mm mounting depth, 30 mm x 30 mm grid according to lamp without lamp			B	<b>3SB34 03-1A</b>	1 unit	0.008
	with integrated voltage reducer and with 130 V lamp (3SX1 731) <sup>2)</sup>	AC 230/240 V 		B	<b>3SB34 03-1C</b>	1 unit	0.010
	<b>Lampholder with integrated LED,</b> 50 mm mounting depth, 30 mm x 30 mm grid	AC/DC 24 V 	yellow red green blue white	B	<b>3SB34 03-1PA</b>	1 unit	0.010
				B	<b>3SB34 03-1PB</b>	1 unit	0.010
				B	<b>3SB34 03-1PC</b>	1 unit	0.010
				B	<b>3SB34 03-1PD</b>	1 unit	0.010
				B	<b>3SB34 03-1PE</b>	1 unit	0.010
		AC 110 V 	yellow red green blue white	B	<b>3SB34 03-1QA</b>	1 unit	0.010
				B	<b>3SB34 03-1QB</b>	1 unit	0.010
				B	<b>3SB34 03-1QC</b>	1 unit	0.010
				B	<b>3SB34 03-1QD</b>	1 unit	0.010
				B	<b>3SB34 03-1QE</b>	1 unit	0.010
	AC 230 V 	yellow red green blue white	B	<b>3SB34 03-1RA</b>	1 unit	0.010	
			B	<b>3SB34 03-1RB</b>	1 unit	0.010	
			B	<b>3SB34 03-1RC</b>	1 unit	0.010	
			B	<b>3SB34 03-1RD</b>	1 unit	0.010	
			B	<b>3SB34 03-1RE</b>	1 unit	0.010	

1) Positive opening according to IEC 60947-5-1, Appendix K.  
2) Use these lamps only.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Switch blocks and lampholders

Version	Symbols	Contact travel 	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Holders for 3 switch blocks, for front panel mounting</b>						
	<b>Holder for pushbuttons and switches<sup>1)</sup></b> for snapping on 3 switch blocks			<b>3SB39 01-0AB</b>	20 units	0.100
	<b>Holder for selector switches, key-operated switches and On-Off pushbuttons</b> with pressure plate for actuating the central contact block			<b>3SB39 01-0AC</b>	10 units	0.200
<b>Switch blocks with soldering pins for use on printed circuit boards</b>						
	<b>Switch block with one contact</b> 44 mm mounting depth 1 NO				B <b>3SB34 11-0B</b>	1 unit 0.003
	1 NC  <sup>2)</sup>				B <b>3SB34 11-0C</b>	1 unit 0.003
	<b>Lampholder</b> wedge base W2 x 4.6 d, without lamp, 44 mm mounting depth				B <b>3SB34 11-1A</b>	1 unit 0.002
<b>Pressure plates for use on PCBs</b>						
	<b>Pressure plates for selector switches and key-operated switches</b> for actuating the central switch block			B <b>3SB39 01-0AW</b>	10 units	0.100
<b>Accessories for PCBs</b>						
	<b>PCB holder</b> for mounting the control devices on the PCB (screw supplied)			B <b>3SB39 01-0AA</b>	10 units	0.100

1) Holder also for mushroom pushbutton and push-pull button.

2) Positive opening according to IEC 60947-5-1, Appendix K.

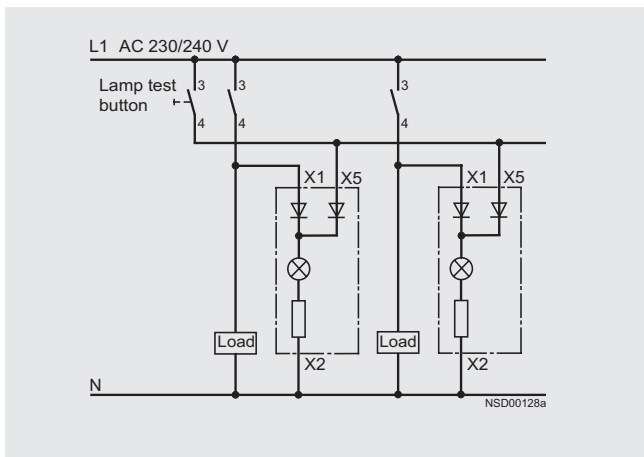


# Pushbuttons and Indicator Lights

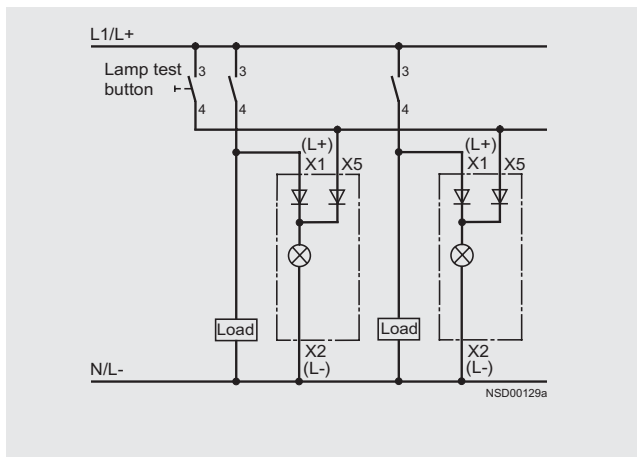
## SIGNUM 22 mm Nominal Diameter

Switch blocks and lampholders

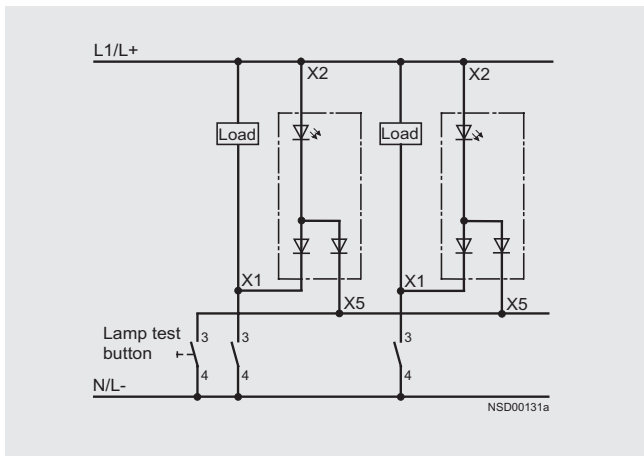
### Circuit diagrams



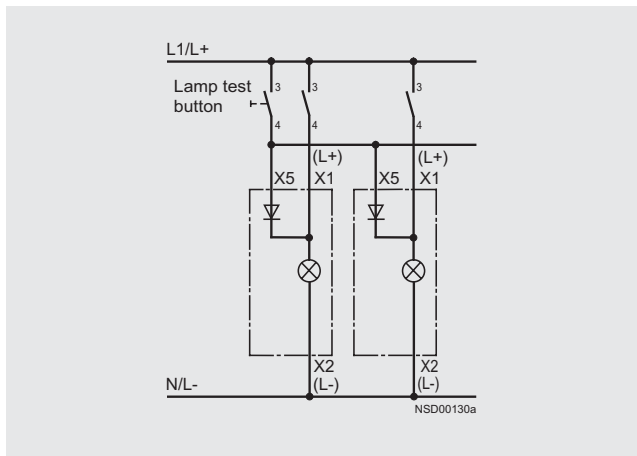
3SB34 00-1F lampholder  
incl. 130 V incandescent lamp



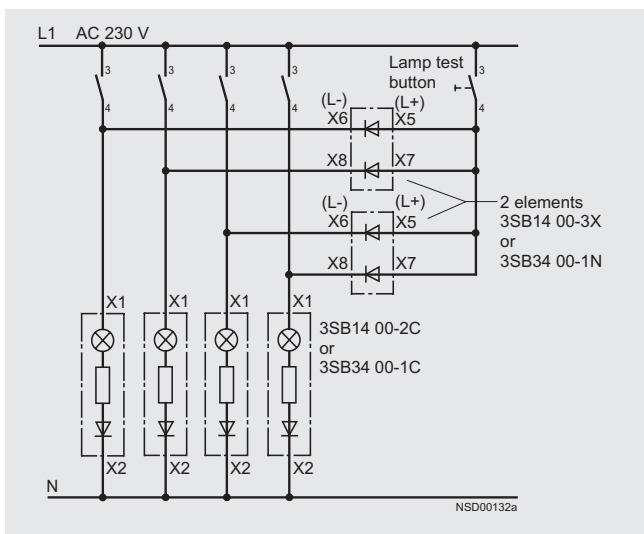
3SB34 00-1G lampholder  
for incandescent lamps, max. 2.6 W or LED lamps, AC/DC



3SB34 00-1L lampholder  
for incandescent lamps, max. 2.6 W or LED lamps, AC or DC



3SB34 00-1H lampholder  
for incandescent lamps, max. 2.6 W or glow lamps, AC



Example for lamp test circuit with 3SB34 00-1N element

### Application examples for 3SB34 00-1N diode elements

- Lamp test circuit,
- Interference suppression,
- Limiting voltage peaks,
- Limiting DC coils,
- Diode gates,
- Rectifier circuits.

The diode element contains 2 diodes 1N 4007. The element can be snapped onto the holder as required.

### Notes on using the lampholders with separate lamp test function

For connecting inductive loads in parallel (e.g. contactors), overvoltage damping is necessary.

The 3SB34 00-1H element is not suitable for operation with a parallel load.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Accessories and spare parts

#### Insert labels

#### Overview

Pushbuttons (clear) and illuminated pushbuttons with a flat button can be fitted with insert labels for identification purposes.



These insert labels are made of clear, transparent molded-plastic with black inscription; they can be fitted in any 90° angle.

#### Inscription

The lettering has uppercase initial letters. The symbols, including those not listed in the catalog, are in accordance with DIN Report 4.

The insert labels without lettering are suitable for user marking with permanent pen.










#### Selection and ordering data

Inscription	DT	Insert label for pushbutton (clear) and illuminated pushbutton (flat) <b>round design</b>	PS*	Weight per PU, approx.	DT	Insert label for pushbutton (clear) and illuminated pushbutton (flat) <b>square design</b>	PS*	Weight per PU, approx.
								
		Order No.		kg		Order No.		kg
Without inscription	B	<b>3SB19 01-4AS</b>	10 units	0.100	B	<b>3SB39 40-4AA</b>	10 units	0.100
Ein	B	<b>3SB19 01-4AB</b>	10 units	0.100	B	<b>3SB39 40-4AB</b>	10 units	0.100
On	B	<b>3SB19 01-4EB</b>	10 units	0.100	C	<b>3SB39 40-4EB</b>	10 units	0.100
Off	B	<b>3SB19 01-4AC</b>	10 units	0.100	C	<b>3SB39 40-4AC</b>	10 units	0.100
Off	B	<b>3SB19 01-4EC</b>	10 units	0.100	C	<b>3SB39 40-4EC</b>	10 units	0.100
Auf	B	<b>3SB19 01-4AD</b>	10 units	0.100	B	<b>3SB39 40-4AD</b>	10 units	0.100
Up	B	<b>3SB19 01-4ED</b>	10 units	0.100	C	<b>3SB39 40-4ED</b>	10 units	0.100
Ab	B	<b>3SB19 01-4AE</b>	10 units	0.100	B	<b>3SB39 40-4AE</b>	10 units	0.100
Down	B	<b>3SB19 01-4EE</b>	10 units	0.100	C	<b>3SB39 40-4EE</b>	10 units	0.100
Vor	B	<b>3SB19 01-4AF</b>	10 units	0.100	-	-	-	-
Forward	B	<b>3SB19 01-4EF</b>	10 units	0.100	C	<b>3SB39 40-4EF</b>	10 units	0.100
Zurück	B	<b>3SB19 01-4AG</b>	10 units	0.100	-	-	-	-
Reverse	B	<b>3SB19 01-4EG</b>	10 units	0.100	C	<b>3SB39 40-4EG</b>	10 units	0.100
Rechts	B	<b>3SB19 01-4AH</b>	10 units	0.100	C	<b>3SB39 40-4AH</b>	10 units	0.100
Right	C	<b>3SB19 01-4EH</b>	10 units	0.100	-	-	-	-
Links	B	<b>3SB19 01-4AJ</b>	10 units	0.100	C	<b>3SB39 40-4AJ</b>	10 units	0.100
Left	C	<b>3SB19 01-4EJ</b>	10 units	0.100	-	-	-	-
Auf	B	<b>3SB19 01-4AD</b>	10 units	0.100	B	<b>3SB39 40-4AD</b>	10 units	0.100
Open	B	<b>3SB19 01-4EP</b>	10 units	0.100	-	-	-	-
Zu	B	<b>3SB19 01-4AL</b>	10 units	0.100	B	<b>3SB39 40-4AL</b>	10 units	0.100
Close	B	<b>3SB19 01-4EQ</b>	10 units	0.100	-	-	-	-
Schnell	B	<b>3SB19 01-4AM</b>	10 units	0.100	B	<b>3SB39 40-4AM</b>	10 units	0.100
Fast	B	<b>3SB19 01-4ER</b>	10 units	0.100	-	-	-	-
Langsam	B	<b>3SB19 01-4AN</b>	10 units	0.100	B	<b>3SB39 40-4AN</b>	10 units	0.100
Slow	B	<b>3SB19 01-4ES</b>	10 units	0.100	-	-	-	-
Operation	B	<b>3SB19 01-4AP</b>	10 units	0.100	-	-	-	-
Running	B	<b>3SB19 01-4EV</b>	10 units	0.100	C	<b>3SB39 40-4EV</b>	10 units	0.100
Störung	B	<b>3SB19 01-4AQ</b>	10 units	0.100	C	<b>3SB39 40-4AQ</b>	10 units	0.100
Fault	B	<b>3SB19 01-4EW</b>	10 units	0.100	C	<b>3SB39 40-4EW</b>	10 units	0.100
Einrichten	B	<b>3SB19 01-4AR</b>	10 units	0.100	-	-	-	-
Reset	B	<b>3SB19 01-4EM</b>	10 units	0.100	C	<b>3SB39 40-4EM</b>	10 units	0.100
Test	B	<b>3SB19 01-4EN</b>	10 units	0.100	-	-	-	-
Start	B	<b>3SB19 01-4EK</b>	10 units	0.100	B	<b>3SB39 40-4EK</b>	10 units	0.100
Halt	B	<b>3SB19 01-4AK</b>	10 units	0.100	B	<b>3SB39 40-4AK</b>	10 units	0.100
Stop	B	<b>3SB19 01-4EL</b>	10 units	0.100	B	<b>3SB39 40-4EL</b>	10 units	0.100

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Accessories and spare parts Insert labels

Inscription symbols	Serial No. acc. to DIN Report 4	DT	Insert label for pushbutton (clear) and illuminated pushbutton (flat) <b>round design</b>	PS*	Weight per PU, approx.	DT	Insert label for pushbutton (clear) and illuminated pushbutton (flat) <b>square design</b>	PS*	Weight per PU, approx.
									
			Order No.		kg		Order No.		kg
<b>Symbol for ON/OFF</b>									
O (Off)		15	B	<b>3SB19 01-4MB</b>	10 units	0.100	B	<b>3SB39 40-4MB</b>	10 units 0.100
I (On)		16	B	<b>3SB19 01-4MC</b>	10 units	0.100	B	<b>3SB39 40-4MC</b>	10 units 0.100
II (On)		-	B	<b>3SB19 01-4MD</b>	10 units	0.100	B	<b>3SB39 40-4MD</b>	10 units 0.100
<b>Equipment symbols</b>									
Electric motor		42	B	<b>3SB19 01-4PA</b>	10 units	0.100	C	<b>3SB39 40-4PA</b>	10 units 0.100
<b>Motion symbols</b>									
Motion in direction of arrow		28	B	<b>3SB19 01-4NA</b>	10 units	0.100	B	<b>3SB39 40-4NA</b>	10 units 0.100
Increase, plus		40	B	<b>3SB19 01-4NG</b>	10 units	0.100	B	<b>3SB39 40-4NG</b>	10 units 0.100
Decrease, minus		41	B	<b>3SB19 01-4MC</b>	10 units	0.100	B	<b>3SB39 40-4MC</b>	10 units 0.100
<b>Customized inscription</b>									
Any inscription or symbol can be selected	-	-	B	<b>3SB19 01-4AZ K0Y, K2Y, K3Y or K9Y</b>	10 units		B	<b>3SB39 40-4AZ K0Y, K2Y, K3Y or K9Y</b>	10 units

### Options

#### Customized inscription

The labels can be inscribed with text and symbols not listed in the ordering data.

Append the following codes to the order number:

- Text in upper/lowercase: **K0Y**
- Text in uppercase: **K1Y**
- Text in lowercase: **K2Y**
- Symbols with number to DIN Report 4: **K3Y**
- Text or symbols according to order form supplement: **K9Y**

DIN Report 4 can be obtained from Beuth Verlag GmbH, D-10772 Berlin

#### Ordering example

You want a label with image No. 1800 to DIN Report 4:

**3SB19 01-4AZ**  
**K3Y**  
**Z = 1800**

#### Notes on ordering

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

By default, a letter height of 4 mm (for a single line of text) or 3 mm (for 2 or 3 lines of text) is used for text inscriptions.

The typeface used is Univers. Other letter heights and typefaces are possible, but must be specified when ordering.

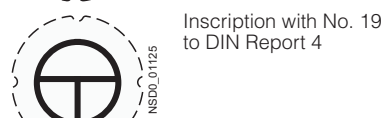
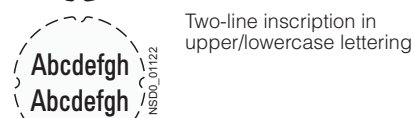
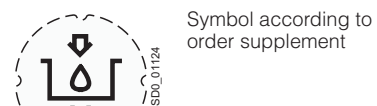
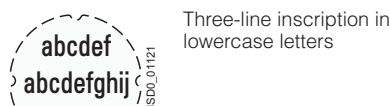
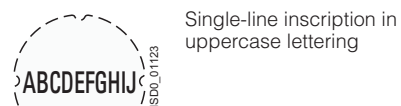
For round inscription labels, the maximum possible number of characters per line is:

- 10 characters for one line of text,
- 8 characters for 2 lines of text,
- 6 characters for 3 lines of text, but 10 characters in the middle line.

On square labels, 10 characters are possible per line.

For special symbols (short code K9Y), a CAD drawing in DXF format should be submitted.

#### Examples for customized inscription



# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Accessories and spare parts

#### Name plates

#### Overview

The name plates consist of a black molded-plastic label holder and a labeling plate (black with white print). Adhesive or snap-on mounting. They are not suitable for EMERGENCY-STOP pushbuttons.

Note insert dimensions!

#### Inscription

The lettering has uppercase initial letters.

#### Self-adhesive labels

The labeling plates are self-adhesive.

There are 2 sizes available for the round and square designs:

- 30 mm × 45 mm label holders with 12.5 mm × 27 mm labeling plate.
- 30 mm × 60 mm label holders with 27 mm × 27 mm labeling plate.

#### Snap-on labels

The following variants are available for the round program:

- 29.8 mm × 51 mm label holders with 17.5 mm × 28 mm labeling plates (inscription area: 17.5 mm × 27 mm).

#### Selection and ordering data

Inscription	DT	Labeling plate self-adhesive 12.5 mm × 27 mm	PS*	Weight per PU, approx.	DT	Labeling plate self-adhesive 27 mm × 27 mm	PS*	Weight per PU, approx.
		Order No.		kg		Order No.		kg
blank	▶	<b>3SB39 02-1AA</b>	10 units	0.100	B	<b>3SB39 03-1AA</b>	10 units	0.100
Ein	B	<b>3SB39 02-1AB</b>	10 units	0.100	B	<b>3SB39 03-1AB</b>	10 units	0.100
On	B	<b>3SB39 02-1EB</b>	10 units	0.100	B	<b>3SB39 03-1EB</b>	10 units	0.100
Off	B	<b>3SB39 02-1AC</b>	10 units	0.100	B	<b>3SB39 03-1AC</b>	10 units	0.100
Off	B	<b>3SB39 02-1EC</b>	10 units	0.100	B	<b>3SB39 03-1EC</b>	10 units	0.100
Auf	B	<b>3SB39 02-1AD</b>	10 units	0.100	B	<b>3SB39 03-1AD</b>	10 units	0.100
Up	B	<b>3SB39 02-1ED</b>	10 units	0.100	-	-	-	-
Ab	B	<b>3SB39 02-1AE</b>	10 units	0.100	B	<b>3SB39 03-1AE</b>	10 units	0.100
Down	B	<b>3SB39 02-1EE</b>	10 units	0.100	-	-	-	-
Vor	B	<b>3SB39 02-1AF</b>	10 units	0.100	B	<b>3SB39 03-1AF</b>	10 units	0.100
Forward	B	<b>3SB39 02-1EF</b>	10 units	0.100	-	-	-	-
Zurück	B	<b>3SB39 02-1AG</b>	10 units	0.100	B	<b>3SB39 03-1AG</b>	10 units	0.100
Reverse	B	<b>3SB39 02-1EG</b>	10 units	0.100	-	-	-	-
Rechts	B	<b>3SB39 02-1AH</b>	10 units	0.100	B	<b>3SB39 03-1AH</b>	10 units	0.100
Right	B	<b>3SB39 02-1EH</b>	10 units	0.100	-	-	-	-
Links	B	<b>3SB39 02-1AJ</b>	10 units	0.100	B	<b>3SB39 03-1AJ</b>	10 units	0.100
Left	B	<b>3SB39 02-1EJ</b>	10 units	0.100	-	-	-	-
Auf	B	<b>3SB39 02-1AD</b>	10 units	0.100	B	<b>3SB39 03-1AD</b>	10 units	0.100
Open	B	<b>3SB39 02-1EP</b>	10 units	0.100	-	-	-	-
Zu	B	<b>3SB39 02-1AL</b>	10 units	0.100	B	<b>3SB39 03-1AL</b>	10 units	0.100
Close	B	<b>3SB39 02-1EQ</b>	10 units	0.100	-	-	-	-
Operation	B	<b>3SB39 02-1AP</b>	10 units	0.100	B	<b>3SB39 03-1AP</b>	10 units	0.100
Störung	B	<b>3SB39 02-1AQ</b>	10 units	0.100	B	<b>3SB39 03-1AQ</b>	10 units	0.100
Fault	B	<b>3SB39 02-1EW</b>	10 units	0.100	-	-	-	-
Test	B	<b>3SB39 02-1EN</b>	10 units	0.100	-	-	-	-
Start	B	<b>3SB39 02-1EL</b>	10 units	0.100	B	<b>3SB39 03-1EL</b>	10 units	0.100
Halt	B	<b>3SB39 02-1AK</b>	10 units	0.100	B	<b>3SB39 03-1AK</b>	10 units	0.100
Stop	B	<b>3SB39 02-1EK</b>	10 units	0.100	-	-	-	-
Stop Start	B	<b>3SB39 02-1BC</b>	10 units	0.100	B	<b>3SB39 03-1BC</b>	10 units	0.100
Hand Auto	C	<b>3SB39 02-1BA</b>	10 units	0.100	B	<b>3SB39 03-1BA</b>	10 units	0.100
Man Auto	B	<b>3SB39 02-1EU</b>	10 units	0.100	-	-	-	-
<b>Symbols</b>								
O	B	<b>3SB39 02-1MB</b>	10 units	0.100	-	-	-	-
I	B	<b>3SB39 02-1MC</b>	10 units	0.100	-	-	-	-
O I	B	<b>3SB39 02-1MF</b>	10 units	0.100	B	<b>3SB39 03-1MF</b>	10 units	0.100
1 2	B	<b>3SB39 02-1ML</b>	10 units	0.100	-	-	-	-
→	B	<b>3SB39 02-1NA</b>	10 units	0.100	B	<b>3SB39 03-1NA</b>	10 units	0.100
↑	B	<b>3SB39 02-1NJ</b>	10 units	0.100	-	-	-	-
<b>Customized inscription</b>								
Any inscription or symbol can be selected	B	<b>3SB39 02-1XZ</b> K0Y, K1Y, K2Y, K3Y or K9Y	10 units		B	<b>3SB39 03-1XZ</b> K0Y, K1Y, K2Y, K3Y or K9Y	10 units	
<b>Label holder</b>								
<b>For round design</b>	B	<b>3SB39 22-0AV</b>	10 units	0.200	B	<b>3SB39 23-0AV</b>	10 units	0.200
<b>For square design</b>	B	<b>3SB39 42-0AX</b>	5 units	0.200	B	<b>3SB39 43-0AX</b>	5 units	0.200
<b>For potentiometer operating mechanism</b> 3SB10 00-7CH07	B	<b>3SB39 22-0AW</b>	1 unit	0.004	-	-	-	-

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Accessories and spare parts Name plates

Inscription	DT	Labeling plate snap-on 17.5 mm × 28 mm Order No.	PS*	Weight per PU, approx. kg
blank	B	<b>3SB39 05-1AA</b>	10 units	0.100
Ein	B	<b>3SB39 05-1AB</b>	10 units	0.100
Off	B	<b>3SB39 05-1AC</b>	10 units	0.100
Auf	B	<b>3SB39 05-1AD</b>	10 units	0.100
Ab	B	<b>3SB39 05-1AE</b>	10 units	0.100
Zurück	B	<b>3SB39 05-1AG</b>	10 units	0.100
Auf	B	<b>3SB39 05-1AD</b>	10 units	0.100
Zu	B	<b>3SB39 05-1AL</b>	10 units	0.100
Operation	B	<b>3SB39 05-1AP</b>	10 units	0.100
Störung	B	<b>3SB39 05-1AQ</b>	10 units	0.100
Start	B	<b>3SB39 05-1EL</b>	10 units	0.100
Halt	B	<b>3SB39 05-1AK</b>	10 units	0.100
Stop	B	<b>3SB39 05-1EK</b>	10 units	0.100
Stop Start	B	<b>3SB39 05-1BC</b>	10 units	0.100
Hand Auto	B	<b>3SB39 05-1BA</b>	10 units	0.100
<b>Symbols</b>				
O I	B	<b>3SB39 05-1MF</b>	10 units	0.100
→	B	<b>3SB39 05-1NA</b>	10 units	0.100
↑	B	<b>3SB39 05-1NJ</b>	10 units	0.100
<b>Customized inscription</b>				
Any inscription or symbol can be selected	B	<b>3SB39 05-1XZ K0Y, K1Y, K2Y, K3Y or K9Y</b>	10 units	
<b>Label holders</b>				
For round design		<b>3SB39 25-0AV</b>	10 units	0.200

## Options

### Customized inscription

The labels can be inscribed with text and symbols not listed in the ordering data.

Append the following codes to the order number:

- Text in upper/lowercase: **K0Y**
- Text in uppercase: **K1Y**
- Text in lowercase: **K2Y**
- Symbols with number to DIN Report 4: **K3Y**
- Text or symbols according to order form supplement: **K9Y**

DIN Report 4 can be obtained from  
Beuth Verlag GmbH, D-10772 Berlin

### Ordering example

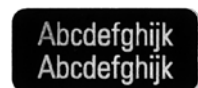
You want a label with image No. 1800 to DIN Report 4:

**3SB39 02-1XZ**  
**K3Y**  
**Z = 1800**

### Examples for customized inscription



Single-line inscription in  
uppercase lettering



Two-line inscription in  
upper/lowercase lettering



Three-line inscription in  
lowercase letters

### Notes on ordering

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

The following letter heights are used as standard for text inscriptions:

- Label size 12.5 mm × 27 mm: 3 lines with font size of 4 mm (single-line), 3.5 mm (2 lines) or 2.5 mm (3 lines),
- Label size 27 mm × 27 mm: 5 lines with font size 4 mm (1 to 5 lines),
- Label size 17.5 mm × 28 mm: 3 lines with font size of 4 mm (1 to 2 lines) or 3 mm (3 lines).

Up to 10 characters per line are possible. The typeface used is Univers. Other letter heights and typefaces are possible, but must be specified when ordering.

For special symbols (short code K9Y), a CAD drawing in DXF format should be submitted.



Inscription with No. 35  
to DIN Report 4



Symbol according to order supplement








# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Accessories and part parts

#### Buttons, lenses and keys

#### Selection and ordering data

Version	Color	DT	Order No.	PS*	Weight per PU, approx. kg
	<b>Button, flat</b> for round illuminated pushbuttons, plastic design	red	B <b>3SB39 30-0CA2</b>	10 units	0.200
		yellow	B <b>3SB39 30-0CA3</b>	10 units	0.200
		green	B <b>3SB39 30-0CA4</b>	10 units	0.200
		blue	B <b>3SB39 30-0CA5</b>	10 units	0.200
		white	B <b>3SB39 30-0CA6</b>	10 units	0.200
		clear	B <b>3SB39 30-0CA7</b>	10 units	0.200
		<b>Button, flat</b> for square illuminated pushbuttons and switches, plastic design	red	B <b>3SB39 50-0CA2</b>	10 units
		yellow	B <b>3SB39 50-0CA3</b>	10 units	0.100
		green	B <b>3SB39 50-0CA4</b>	10 units	0.100
		blue	B <b>3SB39 50-0CA5</b>	10 units	0.100
		white	B <b>3SB39 50-0CA6</b>	10 units	0.100
		clear	B <b>3SB39 50-0CA7</b>	10 units	0.100
		<b>Button, flat</b> for round illuminated pushbuttons and switches, metal design	black	B <b>3SB39 30-0EA1</b>	10 units
		red	B <b>3SB39 30-0EA2</b>	10 units	0.200
		yellow	B <b>3SB39 30-0EA3</b>	10 units	0.200
		green	B <b>3SB39 30-0EA4</b>	10 units	0.200
		blue	B <b>3SB39 30-0EA5</b>	10 units	0.200
		white	B <b>3SB39 30-0EA6</b>	10 units	0.200
		clear	B <b>3SB39 30-0EA7</b>	10 units	0.200
	<b>Button, flat</b> for round illuminated pushbuttons and switches, metal design	red	B <b>3SB39 30-0GA2</b>	10 units	0.200
		yellow	B <b>3SB39 30-0GA3</b>	10 units	0.200
		green	B <b>3SB39 30-0GA4</b>	10 units	0.200
		blue	B <b>3SB39 30-0GA5</b>	10 units	0.200
		white	B <b>3SB39 30-0GA6</b>	10 units	0.200
		clear	B <b>3SB39 30-0GA7</b>	10 units	0.200
		<b>Lens, smooth</b> for round indicator lights, plastic and metal designs	red	B <b>3SB39 30-6BA2</b>	10 units
		yellow	B <b>3SB39 30-6BA3</b>	10 units	0.020
		green	B <b>3SB39 30-6BA4</b>	10 units	0.020
		blue	B <b>3SB39 30-6BA5</b>	10 units	0.020
		white	B <b>3SB39 30-6BA6</b>	10 units	0.020
		clear	B <b>3SB39 30-6BA7</b>	10 units	0.020
		<b>Lens, with concentric rings</b> for round indicator lights, plastic and metal version	red	B <b>3SB39 30-6CA2</b>	10 units
		yellow	B <b>3SB39 30-6CA3</b>	10 units	0.020
		green	B <b>3SB39 30-6CA4</b>	10 units	0.020
		blue	B <b>3SB39 30-6CA5</b>	10 units	0.020
		white	B <b>3SB39 30-6CA6</b>	10 units	0.020
		clear	B <b>3SB39 30-6CA7</b>	10 units	0.020
		<b>Lens, smooth</b> for square indicator lights, plastic design	red	B <b>3SB39 50-6AA2</b>	10 units
		yellow	B <b>3SB39 50-6AA3</b>	10 units	0.002
		green	B <b>3SB39 50-6AA4</b>	10 units	0.002
		blue	B <b>3SB39 50-6AA5</b>	10 units	0.015
		white	B <b>3SB39 50-6AA6</b>	10 units	0.002
		clear	B <b>3SB39 50-6AA7</b>	10 units	0.002
<b>Mounting tool</b> for buttons and lenses, metal design			B	<b>3SB39 21-0BC</b>	1 unit

Version, key-operated switch	Color	DT	Order No.	PS*	Weight per PU, approx. kg
Manufacturer	Lock No.				

#### Key for actuating elements



RONIS	SB 30	B	<b>3SB39 10-4A</b>	1 unit	0.012
BKS	S1	A	<b>3SY1 066</b>	1 unit	0.007
CES	LSG 1	B	<b>3SB19 10-2F</b>	1 unit	0.007
	SSG 10	▶	<b>3SY1 054</b>	1 unit	0.007
	SSP 9	A	<b>3SY1 052</b>	1 unit	0.008
IKON	360012 K1	A	<b>3SY1 053</b>	1 unit	0.007
O.M.R.	73038	B	<b>3SB19 10-2L</b>	1 unit	0.011
	73037	B	<b>3SB19 10-2M</b>	1 unit	0.009
	73034	B	<b>3SB19 10-2N</b>	1 unit	0.011
	73033	B	<b>3SB19 10-2P</b>	1 unit	0.011

#### Footnotes for page 9/71






- Also for 230 V when used with a 3SB34 00-1C voltage reducer.
- Due to the inherent orange color of glow lamps and their lower luminance level compared to incandescent lamps, it is recommended that they should only be used with clear or red screw lenses and in areas where ambient light levels are not very high.
- For increased protection, the IP65 acoustic signaling device (complete device combinations) can be used.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Accessories and spare parts  
Lamps and acoustic signal transformers

### Selection and ordering data

Version	Lamp voltage	Color	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Lamps, BA 9s bases</b>						
	<b>Incandescent lamps 1.2 W</b> , length up to 28 mm, max. bulb diameter 10 mm	AC/DC 24	clear	B	<b>3SB19 02-0AY</b>	10 units 0.003
	<b>Incandescent lamp 2 W</b> , length up to 28 mm, max. bulb diameter 10 mm	AC/DC 6 AC/DC 12 AC/DC 24 AC/DC 30 AC/DC 48 AC/DC 60	clear	A A A B B A	<b>3SX1 342</b> <b>3SX1 343</b> <b>3SX1 344</b> <b>3SB19 02-2AF</b> <b>3SB19 02-1AP</b> <b>3SR9 424</b>	10 units 0.003 10 units 0.003 10 units 0.003 1 unit 0.003 10 units 0.003 10 units 0.003
	<b>Incandescent lamp 2.6 W</b> , length up to 28 mm, max. bulb diameter 10 mm	AC/DC 110 ... 130 <sup>1)</sup>	clear	▶	<b>3SX1 731</b>	10 units 0.003
	<b>Multi-incandescent lamp</b> endurance 25 000 h, high resistance to vibration, 1.2 W, max. operating current 50 mA	AC/DC 24	clear	B	<b>3SB19 02-2BU</b>	10 units 0.002
	<b>LED lamp, super-bright</b> max. length 28 mm, 10 mm bulb diameter, max. operating current 15 mA	AC/DC 24	red yellow green blue white	▶ B ▶ B ▶	<b>3SB39 01-1CA</b> <b>3SB39 01-1BA</b> <b>3SB39 01-1DA</b> <b>3SB39 01-1PA</b> <b>3SB39 01-1QA</b>	10 units 0.002 10 units 0.002 10 units 0.002 10 units 0.002 10 units 0.002
		AC 130	red yellow green blue white	B B B B B	<b>3SB39 01-1CD</b> <b>3SB39 01-1BD</b> <b>3SB39 01-1DD</b> <b>3SB39 01-1PD</b> <b>3SB39 01-1QD</b>	10 units 0.002 10 units 0.002 10 units 0.002 10 units 0.002 10 units 0.002
		AC 230	red yellow green blue white	B B B B B	<b>3SB39 01-1CF</b> <b>3SB39 01-1BF</b> <b>3SB39 01-1DF</b> <b>3SB39 01-1PF</b> <b>3SB39 01-1QF</b>	10 units 0.003 10 units 0.003 10 units 0.003 10 units 0.003 10 units 0.003
	<b>LED lamp</b> max. length 28 mm, 10 mm bulb diameter, max. operating current 15 mA	DC 22 ... 32	red yellow green	D D B	<b>3SB19 02-4AJ</b> <b>3SB19 02-4BJ</b> <b>3SB19 02-4CJ</b>	10 units 0.002 10 units 0.002 10 units 0.002
	<b>LED lamp, flashing (1.4 Hz)</b> , max. length 28 mm, bulb diameter 10 mm, operating current 24 ... 29 mA	DC 24	red yellow green	B B B	<b>3SB19 02-4LC</b> <b>3SB19 02-4MC</b> <b>3SB19 02-4NC</b>	10 units 0.002 10 units 0.002 10 units 0.002
	<b>Glow lamp</b> <sup>2)</sup> length 28 mm, bulb diameter 10 mm, operating current approx. 1.8 mA	AC 110 AC 220 AC 220	clear clear green	A A A	<b>3SX1 703</b> <b>3SX1 701</b> <b>3SX1 702</b>	10 units 0.003 10 units 0.003 10 units 0.003
	<b>Lamp extractor</b> for lamps with BA 9s bases			▶	<b>3SB19 02-2AD</b>	1 unit 0.006
	<b>Lamp adapter</b> for fitting a lamp with a wedge base socket into a BA 9s lampholder			B	<b>3SB19 02-1AU</b>	1 unit 0.002
<b>Lamps, wedge base</b>						
	<b>Incandescent lamp</b> wedge base W2 × 4.6 d, 1.0 W	AC/DC 6 AC/DC 12 AC/DC 24 AC/DC 30 AC/DC 48 AC/DC 60	clear	B B ▶ B B B	<b>3SB29 08-1AA</b> <b>3SB29 08-1AB</b> <b>3SB29 08-1AC</b> <b>3SB29 08-1AD</b> <b>3SB29 08-1AE</b> <b>3SB29 08-1AF</b>	10 units 0.100 10 units 0.100 10 units 0.100 10 units 0.100 10 units 0.001 10 units 0.001
	<b>LED lamp, super-bright</b> wedge base W2 × 4.6 d, operating current 10 mA	DC 24	red yellow green white blue	B B B B B	<b>3SB39 01-1SB</b> <b>3SB39 01-1RB</b> <b>3SB39 01-1TB</b> <b>3SB39 01-1UB</b> <b>3SB29 08-1BD</b>	10 units 0.001 10 units 0.001 10 units 0.001 10 units 0.001 10 units 0.001
	<b>Lamp extractor</b> for lamps with sockets W2 × 4.6 d			▶	<b>3SB29 08-2AB</b>	1 unit 0.003
<b>Acoustic signal transformers, BA 9s base</b>						
	<b>Acoustic signal transformer</b> , operating voltage DC 24 – 28 V, operating current 25 mA, 0.6 W, min. sound pressure 80 dB/10 cm	Acoustic signal- ing device <sup>3)</sup>		B	<b>3SB19 02-2BN</b>	1 unit 0.004

For footnotes, see opposite page.

\* This quantity or a multiple thereof can be ordered


# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Accessories and spare parts

#### Protective covers

#### Selection and ordering data

Version	Application	Color	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Protective caps, Elastolan, IP67 degree of protection</b>						
	<b>Protective cap, clear,</b> for round design <sup>1)</sup>	Flat button (plastic)	transparent	B	<b>3SB39 21-0AJ</b>	1 unit 0.001
		Raised button (plastic), flat button (metal)	transparent	B	<b>3SB39 21-0AM</b>	1 unit 0.002
	Material PVC	Raised button (metal)	transparent	B	<b>3SB19 02-2AN</b>	1 unit 0.003
	<b>Protective cap, clear,</b> for square design <sup>1)</sup>	Flat button (plastic)	transparent	B	<b>3SB39 41-0AJ</b>	1 unit 0.002
<b>Protective caps, Silicone, IP67 degree of protection</b>						
	<b>Protective cap, clear,</b> for round design <sup>1)</sup>	Flat button (plastic)	transparent	B	<b>3SB39 21-0AH</b>	1 unit 0.002
		Raised button (plastic), flat button (metal)	transparent	B	<b>3SB19 02-0AK</b>	1 unit 0.002
		Raised button (metal)	transparent	B	<b>3SB19 02-0AN</b>	1 unit 0.003
	<b>Protective cap, clear,</b> for round design <sup>1)</sup>	Mushroom push-pull button, Ø 40 mm	transparent	B	<b>3SB19 02-2BH</b>	1 unit 0.006
	<b>Protective cap, clear,</b> for square design <sup>1)</sup>	Flat button (plastic)	transparent	B	<b>3SB39 41-0AH</b>	1 unit 0.002
<b>Further protective caps</b>						
	<b>Sealable cap</b> for round design	Flat button (plastic)	black	B	<b>3SB19 02-0AL</b>	1 unit 0.003
			transparent	B	<b>3SB19 02-2AR</b>	1 unit 0.011
	<b>Dust cover</b> for use in dusty environments	Key-operated pushbuttons BKS, CES, IKON, O.M.R.	transparent	B	<b>3SB39 21-0BT</b>	1 unit 0.003

1) Not to be used with label holder.





# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Accessories and spare parts

#### Protective covers

Version	Application	Color	DT	Order No.	PS*	Weight per PU, approx. kg	
<b>Protective collars</b>							
	<b>Protective collar for EMERGENCY-STOP<sup>1)</sup></b> for round design, for front panel fixing	EMERGENCY-STOP mushroom pushbutton without key-operated switch	yellow	▶	<b>3SB39 21-0AK</b>	1 unit 0.044	
		EMERGENCY-STOP mushroom pushbutton with key-operated switch	yellow	B	<b>3SB39 21-0AX</b>	1 unit 0.051	
	<b>Sun collar</b> for round design, for front panel fixing	Illuminated pushbuttons	black	B	<b>3SB39 21-0AS</b>	1 unit 0.003	
<b>Blanking plugs for spare command positions</b>							
  	<b>Blanking plug</b> for plastic version, round		black	▶	<b>3SB39 21-0AA</b>	10 units 0.012	
		<b>Blanking plug</b> for plastic version, square		black	B	<b>3SB39 41-0AA</b>	1 unit 0.013
		<b>Blanking plug</b> for metal version, round		aluminized	B	<b>3SB19 02-0AQ</b>	10 units 0.080

1) The protective collar can only be used to protect against inadvertent actuating and must be fitted to allow unimpeded access to the EMERGENCY-STOP mushroom pushbutton.




# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Accessories and spare parts

#### Miscellaneous accessories

#### Selection and ordering data



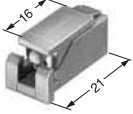


Version	Application	Color/ inscription	DT	Order No.	PS*	Weight per PU, approx. kg	
<b>Yellow name plates, as backing plate for EMERGENCY-STOP</b>							
	<b>Name plate, round,</b> self-adhesive, external diameter 80 mm, 23 mm drilled hole (round design)	EMERGENCY-STOP mushroom pushbuttons	blank	B	<b>3SB39 21-0AB</b>	1 unit 0.002	
			4-languages, G, En, It, Sp	X	<b>3SB39 21-0BW</b>	1 unit 0.001	
			NOT-AUS	B	<b>3SB39 21-0AC</b>	1 unit 0.001	
			EMERGENCY-STOP	B	<b>3SB39 21-0AD</b>	1 unit 0.002	
			ARRET D'URGENCE	B	<b>3SB39 21-0AG</b>	1 unit 0.002	
	EMERGENZA	B	<b>3SB39 21-0AN</b>	1 unit 0.002			
	<b>Name plate, round,</b> self-adhesive, outer diameter 80 mm, cut-out 26 mm × 26 mm (square design)	EMERGENCY-STOP mushroom pushbuttons	blank	B	<b>3SB39 41-0AB</b>	1 unit 0.001	
			NOT-AUS	B	<b>3SB39 41-0AC</b>	1 unit 0.001	
			EMERGENCY-STOP	B	<b>3SB39 41-0AD</b>	1 unit 0.002	
	<b>Name plate, round,</b> 1 mm thick, external diameter 75 mm, hole 22.5 mm (round design)	EMERGENCY-STOP mushroom pushbuttons	blank	B	<b>3SB19 02-2BA</b>	1 unit 0.006	
			NOT-AUS	B	<b>3SB19 02-2BB</b>	1 unit 0.007	
<b>Holders and pressure plates</b>							
	<b>Holder for pushbuttons and switches</b> for snapping on 3 switch blocks	Pushbuttons, push-pull buttons, mushroom pushbuttons with front panel fixing		▶	<b>3SB39 01-0AB</b>	20 units 0.100	
		<b>Holder for selector switch, key-operated switch and On-Off push-button</b> with pressure plate for actuating the central switch block	Selector switch, key-operated switches and On-Off pushbuttons with front plate mounting		▶	<b>3SB39 01-0AC</b>	10 units 0.200
			<b>Pressure plate for selector switches and key-operated switches</b> for actuating the central switch block	Selector switches and key-operated switches for use on PCB or with base mounting	B		<b>3SB39 01-0AW</b>
<b>Holders</b>							
	Holder for plastic version, round			▶	<b>3SB39 31-0AA</b>	10 units 0.014	
	Holder for plastic version, square		B		<b>3SB39 51-0AA</b>	1 unit 0.013	
	Holder for metal version, round			▶	<b>3SB39 31-0AC</b>	10 units 0.044	
	<b>Grounding screw</b> for grounding metal actuators for fitting in front plates made of non-conducting materials		B		<b>3SB39 21-0BD</b>	50 units 0.100	

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Accessories and spare parts

#### Miscellaneous accessories

Version	Application	Color	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Tools</b>						
	<b>Blanking tool</b> 26 mm × 26 mm, for square designs		B	<b>3SB39 41-0AF</b>	1 unit	0.817
	<b>Hole drilling template</b> for 30 mm × 30 mm grid, horizontal, for round and square designs		B	<b>3SB19 02-2BG</b>	1 unit	0.015
	<b>Mounting tool</b> for potentiometer operating mechanism and for pushbutton with extended stroke		A	<b>3SX1 707</b>	1 unit	0.018
<b>Diverse accessories</b>						
   	<b>Single frame</b> for square design of the round version	black	B	<b>3SB39 21-0AU</b>	5 units	0.002
	<b>Adapter</b> Adapter for 30.5 mm mounting holes, comprising a metal disk with an adhesive layer on one side	As thrust ring for a thin plastic front plate	B	<b>3SB39 21-0AE</b>	1 unit	0.008
	<b>PCB holder</b> for mounting the control devices on the PCB (screw supplied)	Switch blocks and lampholders for solder connection	B	<b>3SB39 01-0AA</b>	10 units	0.100
	<b>Extension plunger</b> for compensation of the distance between a pushbutton and the unlatching button of a thermal overload relay	Pushbuttons with extended stroke	A	<b>3SX1 335</b>	1 unit	0.004
	<b>Equipment labels</b> (Order No. and price per packing)		B	<b>3TX4 210-0H</b>	100 units	0.029

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Enclosures

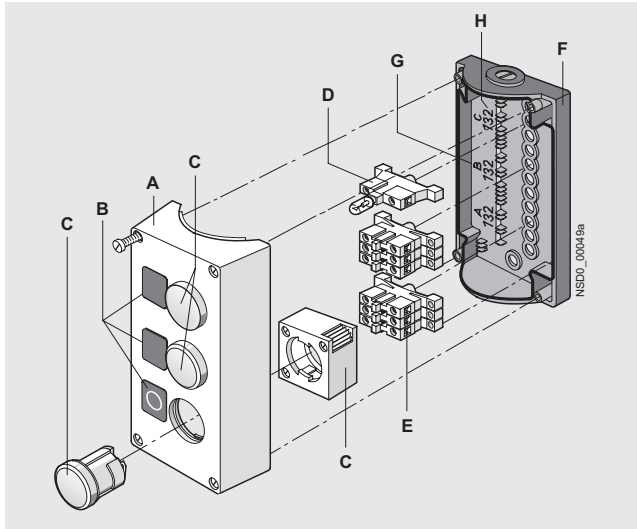
#### Area of application

Enclosed pushbuttons and indicator lights are used for hand operated control devices with separately allocated control. The devices are climate-proof.

#### Standards

IEC 60947-5-1 (VDE 0660 Part 200).

#### Design



- A Top part of enclosure
- B Labeling plates
- C Actuating element with holder
- D Function digit
- E Switch blocks, lampholders for base mounting
- F Bottom part of enclosure
- G Identification letters for the command points
- H Identification number

#### Enclosure

Molded-plastic and metal enclosures with 1, 2, 3, 4 or 6 command points are available. The mounting holes are located external to the terminal compartment.

Cable routing: on the top and bottom narrow ends of the enclosure for an M20/M25 metric cable gland.

Enclosure color:

- Cover RAL 7035 (light gray)
- For EMERGENCY-STOP RAL 1004 (yellow)
- Base RAL 9005 (black)

The molded-plastic enclosures comply with the "total insulation" specification.

#### Customer-specific enclosures

Enclosures with more than 6 command points can also be supplied with AS-Interface connection.

#### Actuators

Round actuators and lens assemblies for a mounting diameter of 22 mm can be used.

The actuators are fitted through the hole in the cover of the enclosure and are connected to the holder supplied with the actuator and secured in position.

#### Switch blocks and lampholders

Switch blocks and lampholders are snapped into the enclosure. For each command point, the following components can be fitted:

- 3 switch blocks or
- 2 switch blocks + 1 lampholder or lampholder with integrated voltage reducer.

The switch blocks have moving double-break contacts and therefore a high contact stability, i.e. they are also suitable for use in solid-state controls. Function numbering is shown on the switch block.

Single-pole switch blocks and lampholders for front plate mounting can also be used.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Enclosures with standard fittings

#### Overview

With 1 to 3 command points, operating voltage up to 400 V, vertical mounting type.

The actuator/indicator is fixed with an enclosure nut. If required it can be disassembled with a 27 mm socket wrench or with a 3SX17 07 ring nut wrench.

With base fixing switch blocks (snapped into the base of the enclosure).

Molded-plastic enclosures are equipped with actuators and indicators made of plastic, metal enclosures are equipped with actuators and indicators made of metal.

Color of cover of enclosure:

- Grey, RAL 7035, or
- Yellow, RAL 1004

Color of the base of the enclosure:

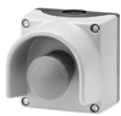
- Black, RAL 9005

#### Selection and ordering data

Equipment	Switch block function	Number of command points	DT	Molded-plastic enclosure	PS*	Weight per PU, approx.	DT	Metal enclosure	PS*	Weight per PU, approx.
				Order No.		kg		Order No.		kg

#### Enclosures with standard fittings

##### Cable entry top and bottom per 1 × M20



A = Pushbutton green, label "I"	1 NO	1	B	<b>3SB38 01-0DA3</b>	1 unit	0.209	B	<b>3SB38 01-2DA3</b>	1 unit	on req.
A = Pushbutton red, label "O"	1 NC	1	B	<b>3SB38 01-0DB3</b>	1 unit	0.209	B	<b>3SB38 01-2DB3</b>	1 unit	on req.
A = Pushbutton white label "I"	1 NO	1	B	<b>3SB38 01-0DD3</b>	1 unit	0.205	B	<b>3SB38 01-2DD3</b>	1 unit	on req.
A = Pushbutton black label "O"	1 NC	1	B	<b>3SB38 01-0DE3</b>	1 unit	0.205	B	<b>3SB38 01-2DE3</b>	1 unit	on req.
A = EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with positive latching function according to EN 418 with yellow top part, without protective collar	1 NC	1	B	<b>3SB38 01-0DG3</b>	1 unit	0.242	B	<b>3SB38 01-2DG3</b>	1 unit	on req.
A = EMERGENCY-STOP mushroom pushbutton, Ø 40 mm, with positive latching function according to EN 418 with yellow top part, with protective collar <sup>1)</sup>	1 NC	1	B	<b>3SB38 01-0DF3</b>	1 unit	0.270	B	<b>3SB38 01-2DF3</b>	1 unit	on req.
B = Green pushbutton, label "I", A = Red pushbutton, label "O"	1 NO, 1NC	2	B	<b>3SB38 02-0DA3</b>	1 unit	0.261	B	<b>3SB38 02-2DA3</b>	1 unit	on req.
B = White pushbutton, label "I", A = Black pushbutton, label "O"	1 NO, 1NC	2	B	<b>3SB38 02-0DB3</b>	1 unit	0.260	B	<b>3SB38 02-2DB3</b>	1 unit	on req.
C = Clear indicator light, label without inscription, B = Green pushbutton, label "I", A = White pushbutton, label "O"	BA 9s, 1 NO, 1NC	3	B	<b>3SB38 03-0DA3</b>	1 unit	0.329	B	<b>3SB38 03-2DA3</b>	1 unit	on req.
C = Black pushbutton, label "I", B = Black pushbutton, label "I", A = Red pushbutton, label "O"	1 NO, 1 NO, 1NC	3	C	<b>3SB38 03-0DB3</b>	1 unit	0.324	B	<b>3SB38 03-2DB3</b>	1 unit	on req.
C = Clear indicator light, label without inscription, B = White pushbutton, label "I", A = Black pushbutton, label "O"	BA 9s, 1 NO, 1NC	3	C	<b>3SB38 03-0DC3</b>	1 unit	0.350	B	<b>3SB38 03-2DC3</b>	1 unit	on req.



<sup>1)</sup> The protective collar can only be used to protect against inadvertent actuating and must be fitted to allow unimpeded access to the EMERGENCY-STOP mushroom pushbutton.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Empty enclosures and individual elements

#### Selection and ordering data

Version	Number of command points	DT	Molded-plastic enclosure	PS*	Weight per PU, approx.	DT	Metal enclosure	PS*	Weight per PU, approx.
			Order No.		kg		Order No.		kg

#### Empty enclosures

**Cable entry top and bottom**  
 each 1 × M20 for 1 to 3 command points,  
 each 1 × M25 for 4 and 6 command points



for switch blocks, lampholders and accessories with snap-on base mounting,	1	B	<b>3SB38 01-0AA3</b>	1 unit	0.185	B	<b>3SB38 01-2AA3</b>	1 unit	on req.
also 1-pole front plate elements can be used (switching state remains on opening)	2	B	<b>3SB38 02-0AA3</b>	1 unit	0.214	B	<b>3SB38 02-2AA3</b>	1 unit	on req.
With gray top section	3	B	<b>3SB38 03-0AA3</b>	1 unit	0.258	B	<b>3SB38 03-2AA3</b>	1 unit	on req.
	4	B	<b>3SB38 04-0AA3</b>	1 unit	0.301	B	<b>3SB38 04-2AA3</b>	1 unit	on req.
	6	B	<b>3SB38 06-0AA3</b>	1 unit	0.415	B	<b>3SB38 06-2AA3</b>	1 unit	on req.

for EMERGENCY-STOP, for switch blocks, lampholders and accessories with snap-on base mounting, also 1-pole front plate elements can be used (switching state remains on opening)

with yellow top part, without protective collar	1	B	<b>3SB38 01-0AB3</b>	1 unit	0.185	B	<b>3SB38 01-2AB3</b>	1 unit	on req.
with yellow top part, with protective collar <sup>1)</sup>	1	B	<b>3SB38 01-0AD3</b>	1 unit	0.213	B	<b>3SB38 01-2AD3</b>	1 unit	on req.

1) The protective collar can only be used to protect against inadvertent actuating and must be fitted to allow unimpeded access to the EMERGENCY-STOP mushroom pushbutton.

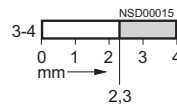
Version	Rated voltage/graphic symbol	Color/contact travel	DT	Order No.	PS*	Weight per PU, approx.
						kg

#### Switch blocks with screw connection, for base mounting



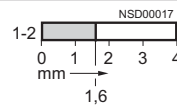
##### Switch block with one contact

1 NO



▶ **3SB34 20-0B** 1 unit 0.012

1 NC → <sup>1)</sup>

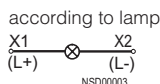


▶ **3SB34 20-0C** 1 unit 0.013



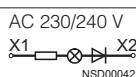
##### BA 9s lampholder

without lamp



▶ **3SB34 20-1A** 1 unit 0.012

with integrated voltage reducer and with 130 V lamp (3SX1 731)<sup>2)</sup>



clear B **3SB34 20-1C** 1 unit 0.016



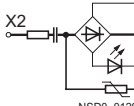
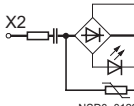



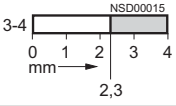


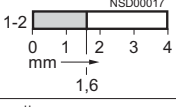


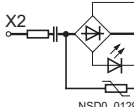
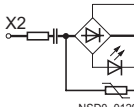


1) Positive opening according to IEC 60947-5-1, Appendix K.

2) Only use with this lamp.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Empty enclosures and individual elements

Version	Rated voltage/ graphical symbols	Color/ contact travel	DT	Order No.	PS*	Weight per PU, approx. kg		
<b>Switch blocks with screw connection, for base mounting</b>								
	AC/DC 24 V  NSDQ_01292a	yellow red green blue white	B	<b>3SB34 20-1PA</b> ▶ <b>3SB34 20-1PB</b> ▶ <b>3SB34 20-1PC</b> B <b>3SB34 20-1PD</b> ▶ <b>3SB34 20-1PE</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.011 0.011 0.011 0.011 0.011		
	AC 110 V  NSDQ_01296a	yellow red green blue white	B	<b>3SB34 20-1QA</b> B <b>3SB34 20-1QB</b> B <b>3SB34 20-1QC</b> B <b>3SB34 20-1QD</b> B <b>3SB34 20-1QE</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.012 0.012 0.012 0.012 0.012		
	AC 230 V  NSDQ_01296a	yellow red green blue white	B	<b>3SB34 20-1RA</b> B <b>3SB34 20-1RB</b> B <b>3SB34 20-1RC</b> B <b>3SB34 20-1RD</b> B <b>3SB34 20-1RE</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.012 0.012 0.012 0.012 0.012		
	<b>Support terminal</b>							
		black blue green/yellow	B	<b>3SB39 01-0AG</b> B <b>3SB39 01-0AH</b> B <b>3SB39 01-0AJ</b>	1 unit 1 unit 1 unit	0.012 0.012 0.012		
	<b>Switch blocks with spring-loaded terminals, for base mounting</b>							
	<b>Switch block with one contact</b>							
	1 NO  NSD00006			 NSD00015 3-4 0 1 2 3 4 mm 2,3	B	<b>3SB34 23-0B</b>	1 unit	0.012
1 NC  <sup>1)</sup>	 NSD00007			 NSD00017 1-2 0 1 2 3 4 mm 1,6	B	<b>3SB34 23-0C</b>	1 unit	0.012
	AC/DC 24 V  NSDQ_01292a	yellow red green blue white	B	<b>3SB34 23-1PA</b> B <b>3SB34 23-1PB</b> B <b>3SB34 23-1PC</b> B <b>3SB34 23-1PD</b> B <b>3SB34 23-1PE</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.012 0.012 0.012 0.012 0.012		
	AC 110 V  NSDQ_01296a	yellow green red blue white	B	<b>3SB34 23-1QA</b> B <b>3SB34 23-1QB</b> B <b>3SB34 23-1QC</b> B <b>3SB34 23-1QD</b> B <b>3SB34 23-1QE</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.012 0.012 0.012 0.012 0.012		
	AC 230 V  NSDQ_01296a	yellow blue green red white	B	<b>3SB34 23-1RA</b> B <b>3SB34 23-1RD</b> B <b>3SB34 23-1RC</b> B <b>3SB34 23-1RB</b> B <b>3SB34 23-1RE</b>	1 unit 1 unit 1 unit 1 unit 1 unit	0.012 0.012 0.012 0.012 0.012		
	<b>Support terminal</b>							
		black blue green/yellow	B	<b>3SB34 23-2F</b> B <b>3SB34 23-2G</b> B <b>3SB34 23-2H</b>	1 unit 1 unit 1 unit	0.012 0.012 0.012		
	<b>Accessories</b>							
	<b>Pressure plate for selector switches and key-operated switches</b> for actuating the central switch block			B	<b>3SB39 01-0AW</b>	10 units	0.100	

1) Positive opening according to IEC 60947-5-1, Appendix K.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Enclosures with choice of fittings

#### Overview

With 1 to 6 command points, operating voltage up to 400 V.

One command point comprises:

- 1 actuator or indicator
- Up to 3 switch blocks or lampholder,
- 1 labeling plate

The equipment for the command points must be selected from the tables. For ordering, the order supplement is required.

Molded-plastic enclosures are equipped with actuators and indicators made of plastic, metal enclosures are equipped with actuators and indicators made of metal.

For routing the cable through, one opening for M20 is provided at the top and bottom (for 1 or 4 command points) or for M25 (for 6 command points).

#### Pricing

The prices are made up of the enclosure prices and a price supplement based on the choice of command points.

#### Selection and ordering data

Version	Number of command points	DT	Molded-plastic enclosure	PS*	Weight per PU, approx.	DT	Metal enclosure	PS*	Weight per PU, approx.
			Order No.		kg		Order No.		kg
With switch blocks and lamp fixtures, for base mounting	1	C	<b>3SB38 01-0AZ</b>		1 unit	C	<b>3SB38 01-2AZ</b>		1 unit
	2	C	<b>3SB38 02-0AZ</b>		1 unit	C	<b>3SB38 02-2AZ</b>		1 unit
	3	C	<b>3SB38 03-0AZ</b>		1 unit	C	<b>3SB38 03-2AZ</b>		1 unit
	4	B	<b>3SB38 04-0AZ</b>		1 unit	C	<b>3SB38 04-2AZ</b>		1 unit
	6	B	<b>3SB38 06-0AZ</b>		1 unit	C	<b>3SB38 06-2AZ</b>		1 unit
With single-pole switch blocks and lampholders, for front plate mounting	1	C	<b>3SB38 01-1AZ</b>		1 unit	C	<b>3SB38 01-3AZ</b>		1 unit
	2	C	<b>3SB38 02-1AZ</b>		1 unit	C	<b>3SB38 02-3AZ</b>		1 unit
	3	C	<b>3SB38 03-1AZ</b>		1 unit	C	<b>3SB38 03-3AZ</b>		1 unit
	4	B	<b>3SB38 04-1AZ</b>		1 unit	C	<b>3SB38 04-3AZ</b>		1 unit
	6	B	<b>3SB38 06-1AZ</b>		1 unit	C	<b>3SB38 06-3AZ</b>		1 unit



3SB38 03- .AZ  
(the components are only an example)



# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Enclosures with choice of fittings

### Options

#### Guide for completing the order form supplement

##### 1. Enter the Item No.

##### 2. Enter the quantity required

##### 3. Enter the required Order No, e.g.:

- 3SB38 0.-0AZ for molded-plastic enclosure, base mounting switch blocks
- 3SB38 0.-1AZ for molded-plastic enclosure, switch blocks for front plate mounting
- 3SB38 0.-2AZ for metal enclosure, base mounting switch blocks
- 3SB38 0.-3AZ for metal enclosure, switch blocks for front plate mounting

Enter Order No. supplement for the 7th position (No. of command points).

##### 4. Enter data in the diagram

##### 4.1 Select actuating elements from the selection tables.

Enter the appropriate code. Mushroom pushbuttons of diameter 40 mm cannot be placed next to each other because of the close spacing.

The purpose of the identification letter (A to F) on the inside of the cover and base of the enclosure is to simplify ordering and complementing of enclosures.

Should a command point not be required, state the code for a blanking plug.

Please note IEC 60204-1 / EN 60204-1 (VDE 0113 Part 1):

- The OFF pushbutton should be black, the ON pushbutton white. Illuminated pushbuttons should not be used as OFF pushbuttons.
- A yellow name plate must be used in conjunction with a red EMERGENCY-STOP mushroom pushbutton. This is available at an additional charge (see 4.6).

##### 4.2 Specify switch blocks, lampholders and voltage reducers for each command point

Select the codes for the desired equipment in accordance with the relevant table and enter them in the appropriate column. For the following devices, the quantity and type of required switch blocks, lampholders etc. must be entered:

- Pushbuttons,
- Actuators with 2 positions,
- Illuminated pushbuttons,
- Indicator lights.

Illuminated pushbuttons and indicator lights with a voltage reducer are supplied with an incandescent lamp.

If a lampholder without voltage reducer is to be supplied with a lamp, state the lamp voltage and, for 110 V, the lamp type (incandescent, glow lamp or LED lamp) under 4.3.

The relevant selection table contains all the possible combinations for 3-position actuators acc. to EN 50013. Enter the appropriate code. If a different arrangement of switch blocks is desired for a command point, this command point must be ordered without switch blocks. The switch blocks must be ordered separately and fitted into the enclosure.

The command points in the enclosure can be fitted with a maximum of 3 switch blocks or 2 switch blocks and 1 lampholder.

##### 4.3 Notes on non-standard versions of equipment

Non-standard refers to equipment that differs from that listed in this catalog, e.g.

- Additional supply of lamps without voltage reducers: state lamp voltage and type of lamp (incandescent lamp, glow lamp or LED lamp).
- Insert labels for illuminated pushbuttons: Select and enter Order No.
- For lockable actuators: special locks (= different Lock No.).

When lampholders with LEDs are used, the required color of the LED can be specified here.

If the color is not specified, LEDs the same color as the actuating element will be used.

##### 4.4 Inscription of the labeling plates

Simply enter the text, select labeling plates in accordance with the ordering data. If a blank plate is required, state "blank". The labeling plates are delivered loose.

If no labeling plate is to be fitted, enter "without plate".

Labeling plates with a special text can be supplied at an additional charge. Simply enter the text, and the labeling plates will then be delivered with the plates stuck to the cover of the enclosure.

The lettering has uppercase initial letters.

##### 4.5 Tick the position of the labeling plate for horizontal or vertical mounting.

If no entry is made, the equipment will be supplied for vertical mounting.

	Vertical mounting		Horizontal mounting
ON		White or clear	
ON		White or green	
OFF		Black or red	

##### 4.6 Special features (only when required)

Special features are versions of enclosures that differ from those listed in this catalog, e.g. if required, tick the yellow backing plate according to EN 60204 (VDE 0113 Part 1). Enclosures with only one command point will then be supplied with a yellow cover. Should the enclosure have more than one command point, a yellow name plate will be factory fitted at point "A". If the yellow name plate should be fixed to another command point, please state which one this is to be.

##### 4.7 Type of actuating elements

Specify here whether an actuating element made of molded-plastic or metal should be fitted.

If this is not specified, molded-plastic actuators will be used with molded-plastic enclosures and metal actuators will be used with metal enclosures.

##### 4.8 Connection system

Specify here whether contact blocks and lampholders should be used with spring-loaded terminals or screw connection.

If this is not specified, elements with screw connection will be used.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Enclosures with choice of fittings

### Order form supplement

Recipient:

**Siemens AG, A&D CD GKA LZA**  
Amberg, Fax: (+49 96 21) 80-31 02

Date

Purchaser's order reference/Order ref 1

Supplier's order reference

1. Item No.

2. Quantity

3. Order No. (complete according to selection table)

**3SB38 . . - . . Z**

#### 4. Equipment

4.4

Inscription of the labeling plates  
(up to 11 characters  
1 to 3 lines)

4.1

Actuating elements  
(order codes)

4.2

Switch blocks,  
lampholders, voltage  
reducers  
(codes) \*

4.3

Notes on special ver-  
sions, e.g. LED, lamp  
voltage,  
insert labels,  
laser inscription,  
special lock

top or right

bottom or left

A to F are identification letters on the inside of the covers and bases

4.5 Position of labeling plates for

- vertical mounting
- horizontal mounting

4.6 Special features, e.g.

- Yellow backing plate at command point "A" or yellow cover for enclosed units with only one command point
- 

4.7 Actuators

- Molded-plastic version
- Metal version

4.8 Connection system

- Screw connection
- Spring-loaded terminal

\* If 3-position actuators are used, the numerical codes shown in this catalog for the switch block arrangement should be stated (e.g. 03 for 2 NO, 05 for 2 NC, etc.).

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

Enclosures with choice of fittings

Select according to order form supplement, Section 4.1

Version	Codes for colors													
	black	red	yellow	green	blue	white	clear							
<b>Actuating elements and signaling devices</b>														
22.5 mm blank plug <sup>1)</sup>	BV	BK	–	–	–	–	–	–	–	–	–	–	–	–
Pushbutton with flat button	D	BK	D	RD	D	YE	D	GN	D	BU	D	WH	D	CL
Illuminated pushbutton with flat button	–	–	DL	RD	DL	YE	DL	GN	DL	BU	DL	WH	DL	CL
Pushbutton with raised button	DH	BK	DH	RD	DH	YE	–	–	DH	BU	–	–	–	–
Illuminated pushbutton with raised button	–	–	DHL	RD	DHL	YE	DHL	GN	DHL	BU	–	–	DHL	CL
Pushbutton with raised front ring	DHF	BK	DHF	RD	DHF	YE	DHF	GN	DHF	BU	DHF	WH	–	–
Pushbutton with raised front ring, castellated <sup>1)</sup>	DFZ	BK	DFZ	RD	DFZ	YE	DFZ	GN	DFZ	BU	DFZ	WH	–	–
Pushbutton with flat button	DS	BK	DS	RD	DS	YE	DS	GN	DS	BU	DS	WH	–	–
Illuminated pushbutton with flat button	–	–	DLS	RD	DLS	YE	DLS	GN	DLS	BU	DLS	WH	DLS	CL
Mushroom pushbutton, Ø 30 mm	P30	BK	P30	RD	P30	YE	P30	GN	–	–	–	–	–	–
Illuminated mushroom pushbutton, Ø 30 mm	–	–	–	RD	PL30	YE	PL30	GN	–	–	PL30	WH	–	–
Mushroom pushbutton, Ø 40 mm	P	BK	P	RD	P	YE	P	GN	–	–	–	–	–	–
Illuminated mushroom pushbutton, Ø 40 mm	–	–	PL	RD	PL	YE	PL	GN	–	–	–	–	–	–
Pushbutton with raised button, latching by pressing and turning to the right, rotate to unlatch to the left <sup>1)</sup>	DHR	BK	DHR	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 32 mm, with positive latching rotate to unlatch to the left	–	–	PRÜ 32	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching rotate to unlatch to the left	–	–	PRÜ 40	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching pull to unlatch	–	–	PRZ 40	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with RONIS key-operated switch, lock No. SB30	–	–	PRS 30	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with CES key-operated switch, lock No. SSG10	–	–	PRS 10	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with BKS key-operated switch, lock No. S1	–	–	PRS S1	RD	–	–	–	–	–	–	–	–	–	–
EMERGENCY-STOP mushroom pushbutton acc. to EN 418, Ø 40 mm, with positive latching with O.M.R. key-operated switch, lock No. 73037	–	–	PRS 73	RD	–	–	–	–	–	–	–	–	–	–
Acoustic signaling device, IP40 <sup>1)</sup>	AMK	BK	–	–	–	–	–	–	–	–	–	–	–	–
Indicator lights	–	–	L	RD	L	YE	L	GN	L	BU	L	WH	L	CL
Push-pull-button with snap action, Ø 30 mm	DZ 30	BK	DZ30	RD	–	–	–	–	–	–	–	–	–	–
Push-pull-button, can be illuminated, with snap action, Ø 30 mm	–	–	DZB30	RD	DZB30	YE	DZB30	GN	DZB30	BU	–	–	DZB30	CL
Push-pull button with snap action, Ø 40 mm	DZ	BK	DZ	RD	–	–	–	–	–	–	–	–	–	–
Push-pull button, can be illuminated, with snap action, Ø 40 mm	–	–	DZB	RD	DZB	YE	DZB	GN	DZB	BU	–	–	DZB	CL

1) Only in molded-plastic version.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Enclosures with choice of fittings

Version	Codes for colors						
	black	red	yellow	green	blue	white	clear

#### Selector switch with 2 switch positions

##### Switching sequence O-I latching

non-illuminated	K1	BK	K1	RD	–	K1	GN	–	K1	WH	–		
illuminated	–		BK1	RD	BK1	YE	BK1	GN	BK1	BU	–	BK1	CL

##### Switching sequence O-I momentary contact to the right (with return from the right)

non-illuminated	K2	BK	K2	RD	–	K2	GN	–	K2	WH	–		
illuminated	–		BK2	RD	BK2	YE	BK2	GN	BK2	BU	–	BK2	CL

#### Selector switch with 3 switch positions

##### Switching sequence I-O-II latching

non-illuminated	K4	BK	K4	RD	–	K4	GN	–	K4	WH	–		
illuminated	–		BK4	RD	BK4	YE	BK4	GN	BK4	BU	–	BK4	CL

##### Switching sequence I-O-II momentary contact (with reset from the right and left)

non-illuminated	K5	BK	K5	RD	–	K5	GN	–	K5	WH	–		
illuminated	–		BK5	RD	BK5	YE	BK5	GN	BK5	BU	–	BK5	CL

##### Switching sequence I-O-II latching to the right, momentary contact to the left (with return from the left)

non-illuminated	K6	BK	K6	RD	–	K6	GN	–	K6	WH	–
-----------------	----	----	----	----	---	----	----	---	----	----	---

##### Switching sequence I-O-II latching to the left, momentary contact to the right (with return from the right)

non-illuminated	K7	BK	K7	RD	–	K7	GN	–	K7	WH	–
-----------------	----	----	----	----	---	----	----	---	----	----	---

Version	Code						
	Key removable in position						
	O	I	II	O and I	O and II	I and II	I, O and II

#### Key-operated switches with 2 switch positions

##### Switching sequence O-I latching

RONIS type, lock No. SB30	RSB	1A	RSB	1E	–	RSB	1AE	–	–	–
CES type, lock No. SSG 10 lock No. LSG 1	CES CESL	1A	CES	1E	–	CES CESL	1AE	–	–	–
IKON type, lock No. 360012 K1	Z-J	1A	–	–	–	Z-J	1AE	–	–	–
BKS type, lock No. S1 lock No. E1 (for VW) lock No. E2 (for VW) lock No. E7 (for VW) lock No. E9 for VW )	BKS BKS A BKS E BKS C BKS B	1A	BKS	1E	–	BKS BKS A BKS E BKS C BKS B	1AE	–	–	–
O.M.R. type, black, lock No. 73034	OMR BK	1A	OMR BK	1E	–	OMR BK	1AE	–	–	–

##### Switching sequence O-I momentary contact to the right (with return from the right)

RONIS type, lock No. SB30	RSB	2A	–	–	–	–	–	–	–	–
CES type, lock No. SSG 10 lock No. LSG 1	CES CESL	2A	–	–	–	–	–	–	–	–
IKON type, lock No. 360012 K1	Z-J	2A	–	–	–	–	–	–	–	–
BKS type, lock No. S1	BKS	2A	–	–	–	–	–	–	–	–
O.M.R. type, black, lock No. 73034	OMR BK	2A	–	–	–	–	–	–	–	–

9

# Pushbuttons and Indicator Lights SIGNUM 22 mm Nominal Diameter

Enclosures with choice of fittings

Version	Code							
	Key removable in position							
	O	I	II	O and I	O and II	I and II	I, O and II	

## Key-operated switches with 3 switch positions

### Switching sequence I-O-II latching

RONIS type, lock No. SB30	RSB	4A	RSB	4E	RSB	4D	-	-	RSB	4ED	RSB	4EAD
CES type, lock No. SSG 10	CES	4A	CES	4E	CES	4D	-	-	CES	4ED	CES	4EAD
IKON type, lock No. 360012 K1	Z-J	4A	Z-J	4E	Z-J	4D	-	-	Z-J	4ED	Z-J	4EAD
BKS type, lock No. S1	BKS	4A	BKS	4E	BKS	4D	-	-	BKS	4ED	BKS	4EAD
O.M.R. type, black, lock No. 73034	OMR BK	4A	-	-	-	-	-	-	OMR BK4ED	-	OMR BK	4EAD

### Switching sequence I-O-II momentary contact (with return from the right and left)

RONIS type, lock No. SB30	RSB5A	-	-	-	-	-	-	-	-	-	-	-
CES type, lock No. SSG 10	CES5A	-	-	-	-	-	-	-	-	-	-	-
IKON type, lock No. 360012 K1	Z-J5A	-	-	-	-	-	-	-	-	-	-	-
BKS type, lock No. S1	BKS5A	-	-	-	-	-	-	-	-	-	-	-
O.M.R. type, black, lock No. 73034	OMR BK5A	-	-	-	-	-	-	-	-	-	-	-

### Switching sequence I-O-II latching to the right, momentary contact to the left (with return from the left)

RONIS type, lock No. SB30	RSB	6A	-	RSB	6D	-	RSB	6AD	-	-	-	-
CES type, lock No. SSG 10	CES	6A	-	CES	6D	-	CES	6AD	-	-	-	-
IKON type, lock No. 360012 K1	Z-J	6A	-	Z-J	6D	-	Z-J	6AD	-	-	-	-
BKS type, lock No. S1	BKS	6A	-	BKS	6D	-	BKS	6AD	-	-	-	-
O.M.R. type, black, lock No. 73034	OMR BK	6A	-	OMR BK	6D	-	OMR BK	6AD	-	-	-	-

### Switching sequence I-O-II latching to the left, momentary contact to the right (with return from the right)

RONIS type, lock No. SB30	RSB	7A	RSB	7E	-	RSB	7AE	-	-	-	-	-
CES type, lock No. SSG 10	CES	7A	CES	7E	-	CES	7AE	-	-	-	-	-
IKON type, lock No. 360012 K1	Z-J	7A	Z-J	7E	-	Z-J	7AE	-	-	-	-	-
BKS type, lock No. S1	BKS	7A	BKS	7E	-	BKS	7AE	-	-	-	-	-
O.M.R. type, black, lock No. 73034	OMR BK	7A	OMR BK	7E	-	-	-	-	-	-	-	-

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Enclosures with choice of fittings

#### Select according to order form supplement, Section 4.2

	Version		Order code
<b>Switch blocks, lampholders and voltage reducers</b>			
Codes for lampholders and actuators with <u>2</u> switch positions	Switch block	NO	<b>NO</b>
		NC	<b>NC</b>
	BA 9s lampholder without lamp <sup>1)</sup>		<b>BA 9s</b>
	BA 9s lampholder with lamp, Enter Order No. under 4.3 (Notes) <sup>1) 2)</sup>		<b>BA 9s L</b>
	BA 9s lampholder + voltage reducer + 130 V lamp <sup>1)</sup>	AC 230 V	<b>BA 9s VL</b>
	BA 9s lampholder + acoustic signal transformer <sup>1)</sup>		<b>BA 9s S</b>
	Lampholder with integrated LED	AC/DC 24 V	<b>LED24</b>
		AC 110 V	<b>LED110</b>
		AC 230 V	<b>LED230</b>
	Holder for 3 snap-on switch blocks with front plate fixing		
Holder for selector switch and key-operated switches with pressure plates, for actuating the central switch block, with front plate mounting			
Pressure plate for selector switch and key-operated switch for operating the middle switch block, with base mounting			
Support terminals	black	<b>Sk BK</b>	
	blue	<b>Sk BU</b>	
	green/yellow	<b>Sk GNYE</b>	

	Number and type of switch blocks	in position I		in position II		Order code
		actuated	contact identification	actuated	contact identification	
Code for actuators with <u>3</u> switch positions	2 NO	1 NO	13/14	1 NO	23/24	<b>03</b>
	1 NO+1 NC	1 NO	13/14	1 NC	21/22	<b>04</b>
	2 NC	1 NC	11/12	1 NC	21/22	<b>05</b>
	3 NO	2 NO	13/14 and 33/34	1 NO	23/24	<b>07</b>
		1 NO	13/14	2 NO	23/24 and 33/34	<b>08</b>
		2 NO	13/14 and 33/34 <sup>3)</sup>	2 NO	23/24 and 33/34 <sup>3)</sup>	<b>06</b>
	2 NO+1 NC	2 NO	13/14 and 33/34	1 NC	21/22	<b>11</b>
		1 NO	13/14	1 NC+1 NO	21/22 and 33/34	<b>12</b>
		2 NO	13/14 and 33/34 <sup>3)</sup>	1 NC+1 NO	21/22 and 33/34 <sup>3)</sup>	<b>10</b>
		1NO+1NC	13/14 and 31/32	1 NC+1 NC	23/24 and 31/32	<b>19</b>
	1 NO+2 NC	1 NO+1 NC	13/14 and 31/32	1 NC	21/22	<b>14</b>
		1 NO	13/14	2 NC	21/22 and 31/32	<b>15</b>
		1 NO+1 NC	13/14 and 31/32 <sup>3)</sup>	2 NC	21/22 and 31/32 <sup>3)</sup>	<b>13</b>
	3 NC	2 NC	11/12 and 31/32	1 NC	21/22	<b>17</b>
		1 NC	11/12	2 NC	21/22 and 31/32	<b>18</b>
		2 NC	11/12 and 31/32 <sup>3)</sup>	2 NC	21/22 and 31/32 <sup>3)</sup>	<b>16</b>

#### Select according to order form supplement, Section 4.4

	Inscription	
Labeling plates	With inscription	Laser-printed inscription
	Without inscription	

#### Special designs

	Version	
Pushbutton in enclosure	Fitting a yellow backing plate	Without inscription
		With recess for labeling plate
	Enclosure with yellow cover <sup>4)</sup>	

- 1) Only for lampholders with screw connection.
- 2) For lamps, see page 9/71.
- 3) This switch block is actuated in positions I and II.
- 4) Only possible for enclosures with 1 command point.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Labeling plates for enclosures

#### Overview

The labeling plates (black with white inscription) for enclosures have an adhesive layer on the back. The size of the labels is 22 mm × 22 mm.



#### Inscription

The lettering has uppercase initial letters.

#### Selection and ordering data

Inscription	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Blank</b>				
Without inscription		▶ <b>3SB39 06-1AA</b>	10 units	0.100
<b>With inscription</b>				
Ein	B	<b>3SB39 06-1AB</b>	10 units	0.001
On	B	<b>3SB39 06-1EB</b>	10 units	0.001
Off	B	<b>3SB39 06-1AC</b>	10 units	0.001
Off	B	<b>3SB39 06-1EC</b>	10 units	0.001
Auf	B	<b>3SB39 06-1AD</b>	10 units	0.001
Up	B	<b>3SB39 06-1ED</b>	10 units	0.001
Ab	B	<b>3SB39 06-1AE</b>	10 units	0.001
Down	B	<b>3SB39 06-1EE</b>	10 units	0.001
Vor	B	<b>3SB39 06-1AF</b>	10 units	0.001
Forward	B	<b>3SB39 06-1EF</b>	10 units	0.001
Zurück	B	<b>3SB39 06-1AG</b>	10 units	0.001
Reverse	B	<b>3SB39 06-1EG</b>	10 units	0.001
Rechts	B	<b>3SB39 06-1AH</b>	10 units	0.001
Right	B	<b>3SB39 06-1EH</b>	10 units	0.001
Links	B	<b>3SB39 06-1AJ</b>	10 units	0.001
Left	B	<b>3SB39 06-1EJ</b>	10 units	0.001
Auf	B	<b>3BB3906-1AD</b>	10 units	0.001
Open	B	<b>3SB39 06-1EP</b>	10 units	0.001
Zu	B	<b>3SB39 06-1AL</b>	10 units	0.001
Close	B	<b>3SB39 06-1EQ</b>	10 units	0.001
Schnell	B	<b>3SB39 06 -1AM</b>	10 units	0.001
Fast	B	<b>3SB39 06 -1ER</b>	10 units	0.001
Langsam	B	<b>3SB39 06 -1AN</b>	10 units	0.001
Slow	B	<b>3SB39 06 -1ES</b>	10 units	0.001
Operation	B	<b>3SB39 06 -1AP</b>	10 units	0.001
Running	B	<b>3SB39 06 -1EV</b>	10 units	0.001
Störung	B	<b>3SB39 06 -1AQ</b>	10 units	0.001
Fault	B	<b>3SB39 06 -1EW</b>	10 units	0.001
Einrichten	B	<b>3SB39 06 -1AR</b>	10 units	0.001
Reset	B	<b>3SB39 06 -1EM</b>	10 units	0.001
Test	B	<b>3SB39 06 -1EN</b>	10 units	0.001
Start	B	<b>3SB39 06 -1EL</b>	10 units	0.001
Halt	B	<b>3SB39 06-1AK</b>	10 units	0.001
Stop	B	<b>3SB39 06-1EK</b>	10 units	0.001
NOT-AUS	B	<b>3SB39 06 -1AS</b>	10 units	0.001

Inscription	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Equipment</b>				
Fan	B	<b>3SB39 06 -1CA</b>	10 units	0.001
Pump	B	<b>3SB39 06 -1CB</b>	10 units	0.001
Cooling	B	<b>3SB39 06 -1CC</b>	10 units	0.001
Heating	B	<b>3SB39 06 -1CD</b>	10 units	0.001
Lighting	B	<b>3SB39 06 -1CE</b>	10 units	0.001
Filter	B	<b>3SB39 06 -1CF</b>	10 units	0.001
Motor	C	<b>3SB39 06 -1CG</b>	10 units	0.001
Compressor	C	<b>3SB39 06 -1CH</b>	10 units	0.001
<b>Symbol for ON/OFF</b>				
O	B	<b>3SB39 06-1MB</b>	10 units	0.001
I	B	<b>3SB39 06-1MC</b>	10 units	0.001
II	B	<b>3SB39 06-1MD</b>	10 units	0.001
III	B	<b>3SB39 06-1ME</b>	10 units	0.001
O I (horizontal)	B	<b>3SB39 06-1MF</b>	10 units	0.001
I O II (horizontal)	B	<b>3SB39 06-1MG</b>	10 units	0.001
I O (vertical)	B	<b>3SB39 06-1MH</b>	10 units	0.001
II O I (vertical)	B	<b>3SB39 06-1MW</b>	10 units	0.001
<b>Motion symbols</b>				
→	B	<b>3SB39 06-1NA</b>	10 units	0.001
<b>Customized inscription</b>				
Any inscription or symbol can be selected	B	<b>3SB39 06-0XZ K0Y, K1Y, K2Y K3Y or K9Y</b>	10 units	0.001

#### Options

##### Customized inscription

The labels can be inscribed with text and symbols not listed in the ordering data.

Append the following codes to the order number:

- Text in upper/lowercase: **K0Y**
- Text in uppercase: **K1Y**
- Text in lowercase: **K2Y**
- Symbols with number to DIN Report 4: **K3Y**
- Text or symbols according to order form supplement: **K9Y**

DIN Report 4 can be obtained from  
Beuth Verlag GmbH, D-10772 Berlin

##### Ordering example

You want a label with image No. 267 to DIN Report 4:

3SB39 06-0XZ  
K3Y  
Z = 267

##### Notes on ordering

When ordering, specify the required inscription in plain text in addition to the order number and order code. In the case of special inscriptions with words in languages other than German, give the exact spelling and specify the language.

3 lines with 11 letters each are possible, height of letters 4 mm (1 to 3 lines)








For special symbols (short code K9Y), a CAD drawing in DXF format should be submitted.

# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

### Accessories for enclosures

#### Selection and ordering data

Device type	Version	Color/ inscription	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Blanking plugs</b>						
	<b>Blanking plug</b> for round design, plastic	black	▶	<b>3SB39 21-0AA</b>	10 units	0.012
<b>Holders and pressure plates</b>						
	<b>Holder for pushbuttons and switches</b> for snapping on 3 switch blocks, for front plate mounting		▶	<b>3SB39 01-0AB</b>	20 units	0.100
	<b>Holder for selector switch and key-operated switch</b> with pressure plate for actuating the central switch block, for front plate mounting		▶	<b>3SB39 01-0AC</b>	10 units	0.200
	<b>Pressure plate for selector switch and key-operated switch</b> for actuating the central switch block, for base mounting		B	<b>3SB39 01-0AW</b>	10 units	0.100
<b>Accessories for enclosure</b>						
	<b>Yellow name plate</b> as backing plate for EMERGENCY-STOP, self-adhesive	Without inscription	B	<b>3SB19 02-1AQ</b>	1 unit	0.001
		with inscription "EMERGENCY-STOP"	B	<b>3SB19 02-2AQ</b>	1 unit	0.001
		with recess for labeling plate	B	<b>3SB39 21-0BV</b>	1 unit	0.001
	<b>M20 cable gland</b> <sup>1)</sup> <b>M25 cable gland</b> <sup>1)</sup>		B	<b>3SB39 01-0CK</b>	1 unit	0.011
			B	<b>3SB39 01-0CM</b>	1 unit	0.014
	<b>M20 hexagonal nut</b> for cable glands <sup>1)</sup> <b>M25 hexagonal nut</b> for cable glands <sup>1)</sup>		B	<b>3SB39 01-0CL</b>	10 units	0.100
			B	<b>3SB39 01-0CN</b>	10 units	0.100

1) For molded-plastic enclosures, a nut and cable gland are required, for metal enclosures only the cable gland is required.



# Pushbuttons and Indicator Lights

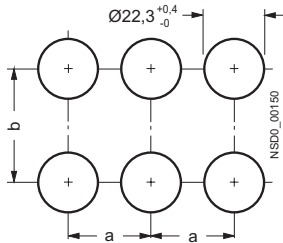
## SIGNUM 22 mm Nominal Diameter

Project planning aids

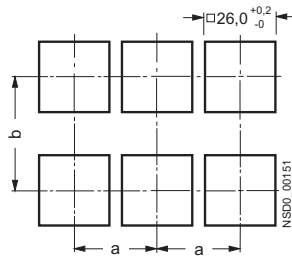
### Dimension drawings

#### Mounting dimensions

Round design



Square design



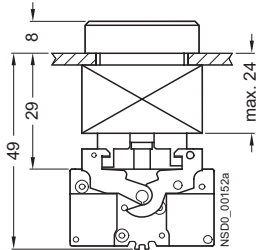
#### Minimum clearance

	a	b
Switch blocks (1 contact) and lampholder		
• for front plate mounting, with screw terminals	30 <sup>1)</sup>	45
• for front plate mounting, with spring-loaded terminals	30 <sup>1)</sup>	30 <sup>1)</sup>
• for use on PCB, with solder pins	30 <sup>1)</sup>	30 <sup>1)</sup>
Switch blocks with 2 contacts		
• for front plate mounting	30 <sup>1)</sup>	50
When using holders for labeling plates		
• 12.5 mm x 27 mm	30 <sup>1)</sup>	45 <sup>2)</sup>
• 27.0 mm x 27 mm	30 <sup>1)</sup>	60

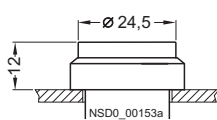
- 1) For mushroom pushbutton, EMERGENCY-STOP and push-pull button:  
Note mushroom diameter  $d = 40$  mm or  $60$  mm.
- 2)  $60$  mm with switch blocks having two contacts.

#### Molded-plastic version, round

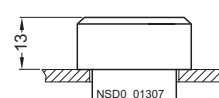
Pushbutton or illuminated pushbutton with flat pushbutton and single-pole switch block (and lampholder)



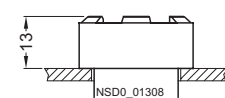
Pushbutton or illuminated pushbutton with raised button



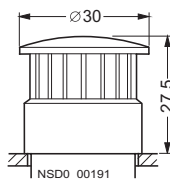
Pushbutton with raised front ring



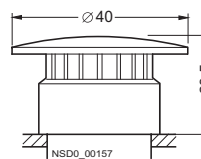
Pushbutton with raised front ring castellated



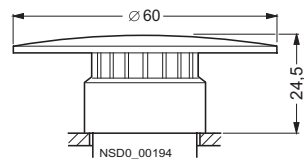
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button, Ø 30 mm



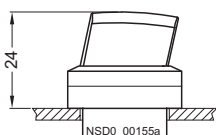
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button, Ø 40 mm



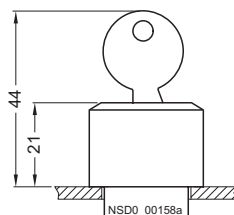
Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button, Ø 60 mm



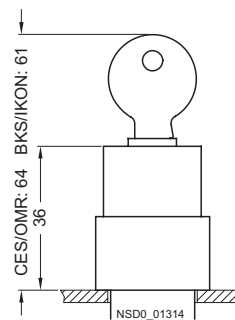
Selector switch or illuminated selector switch



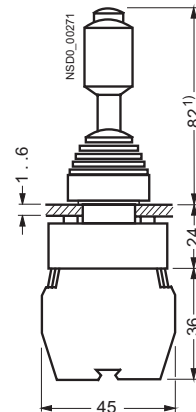
RONIS key-operated switch



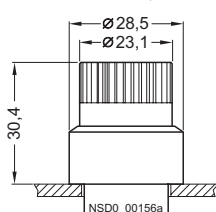
BKS, CES, IKON, O.M.R. key-operated switches



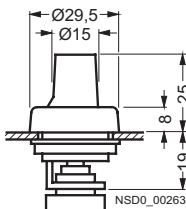
Joystick switch



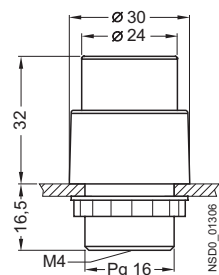
Pushbutton with raised button, latchable



Operating mechanism for potentiometer with shaft Ø 6 mm, 30 ... 32 mm long



Pushbutton with extended stroke



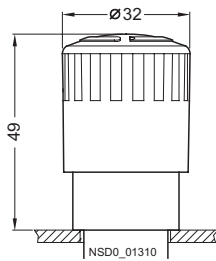
- 1) 82 with mechanical interlock, 77 without mechanical interlock

# Pushbuttons and Indicator Lights

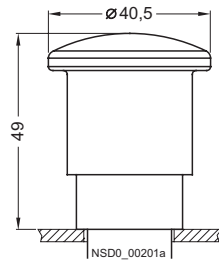
## SIGNUM 22 mm Nominal Diameter

### Project planning aids

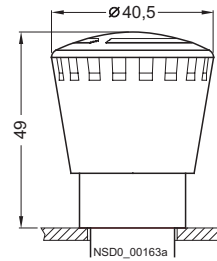
**EMERGENCY-STOP mushroom pushbutton,**  
Ø 32 mm, pull to unlatch



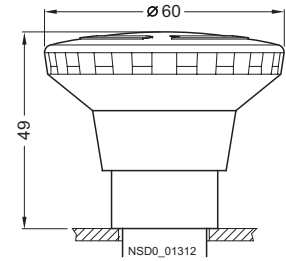
**EMERGENCY-STOP mushroom pushbutton,**  
Ø 40 mm, pull to unlatch



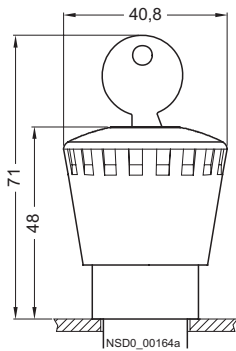
**EMERGENCY-STOP mushroom pushbutton,**  
Ø 40 mm, pull to unlatch



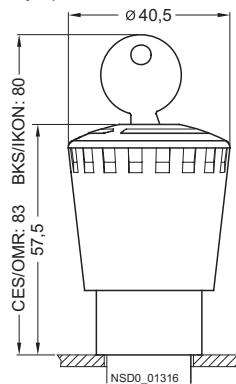
**EMERGENCY-STOP mushroom pushbutton,**  
Ø 60 mm, rotate to unlatch



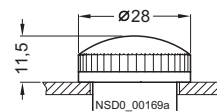
**EMERGENCY-STOP mushroom pushbutton**  
with RONIS key-operated switch



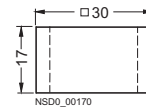
**EMERGENCY-STOP mushroom pushbutton**  
with BKS, CES, IKON, O.M.R.  
key-operated switch



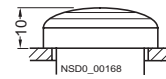
**Indicator light**



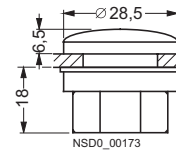
**Holder**



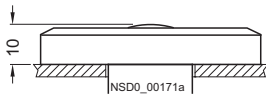
**Audible signal device**



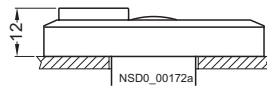
**Blanking plug**



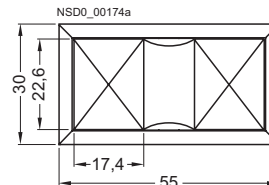
**On-Off pushbutton**  
with flat buttons



**On-Off pushbutton**  
with raised buttons

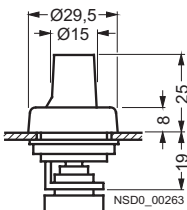


**On-Off pushbutton**  
with or without indicator light

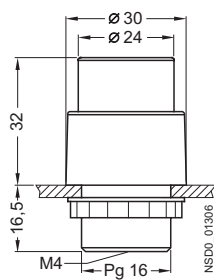


Top view

**Operating mechanism for potentiometer**  
with shaft Ø 6 mm,  
30 ... 32 mm long



**Pushbutton with extended stroke**



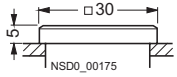
# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

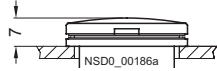
Project planning aids

### Plastic version, square

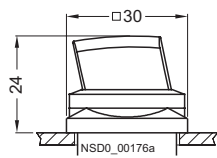
Pushbutton or illuminated pushbutton with flat pushbutton



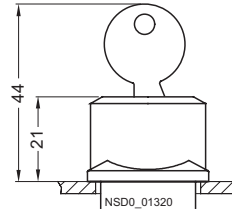
Indicator light



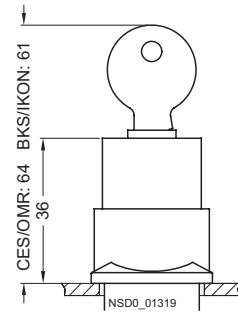
Selector switch or illuminated selector switch



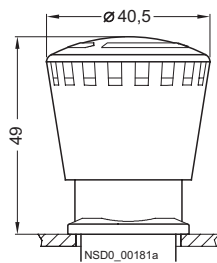
RONIS key-operated switch



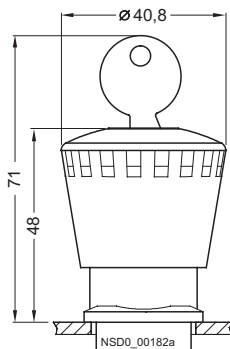
BKS, CES, IKON, O.M.R. key-operated switch



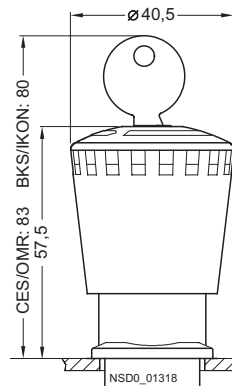
EMERGENCY-STOP mushroom pushbutton with safety lock



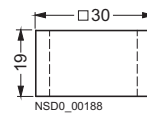
EMERGENCY-STOP mushroom pushbutton with RONIS key-operated switch



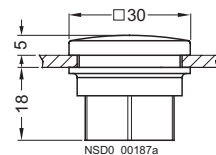
EMERGENCY-STOP mushroom pushbutton with BKS, CES, IKON, O.M.R. key-operated switch



Holder



Blanking plug



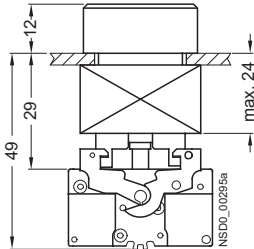
# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

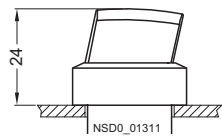
### Project planning aids

#### Metal version, round

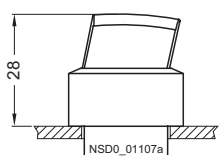
**Pushbutton or illuminated pushbutton**  
with flat button and single-pole switch block (and lampholder)



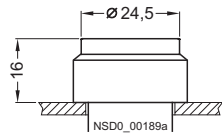
**Selector switch or illuminated selector switch,**  
standard



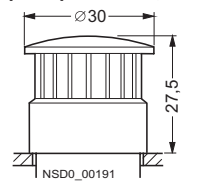
**Selector switch or illuminated selector switch,**  
heavy duty



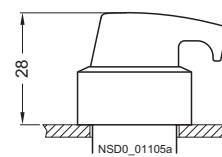
**Pushbutton or illuminated pushbutton**  
with raised button



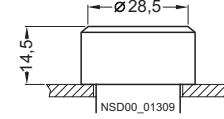
**Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button,**  
Ø 30 mm



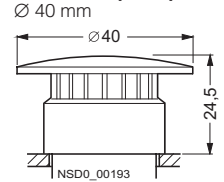
**Selector switch or illuminated selector switch**  
with long handle



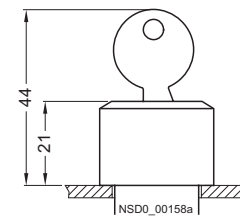
**Pushbutton or illuminated pushbutton, latching,**  
with flat button



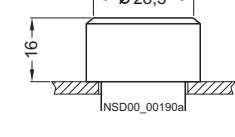
**Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button,**  
Ø 40 mm



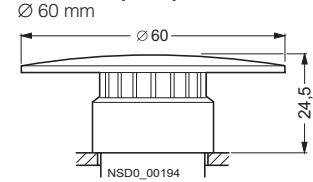
**RONIS key-operated switch**



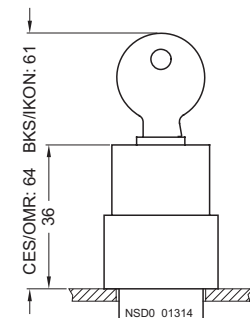
**Pushbutton**  
with raised front ring



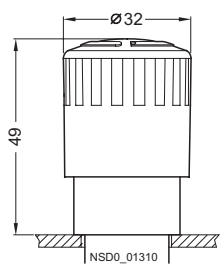
**Mushroom pushbutton, illuminated mushroom pushbutton, push-pull-button or illuminated push-pull-button,**  
Ø 60 mm



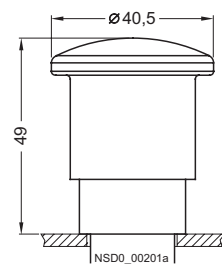
**BKS, CES, IKON, O.M.R. key-operated switches**



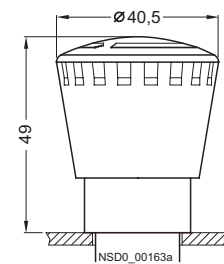
**EMERGENCY-STOP mushroom pushbutton,**  
Ø 32 mm, rotate to unlatch



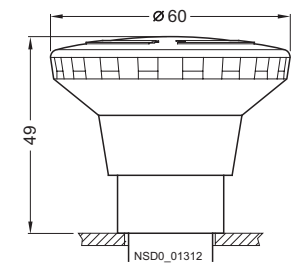
**EMERGENCY-STOP mushroom pushbutton,**  
Ø 40 mm, rotate to unlatch



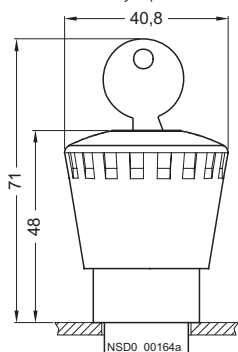
**EMERGENCY-STOP mushroom pushbutton,**  
Ø 40 mm, rotate to unlatch



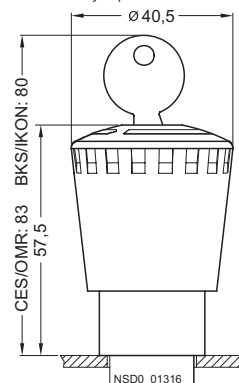
**EMERGENCY-STOP mushroom pushbutton,**  
Ø 60 mm, rotate to unlatch



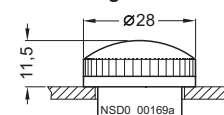
**EMERGENCY-STOP mushroom pushbutton**  
with RONIS key-operated switch



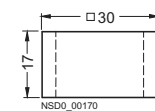
**EMERGENCY-STOP mushroom pushbutton**  
with BKS, CES, IKON, O.M.R. key-operated switch



**Indicator light**



**Holder**



# Pushbuttons and Indicator Lights

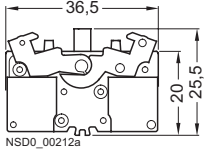
## SIGNUM 22 mm Nominal Diameter

Project planning aids

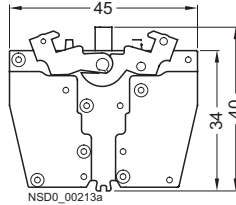
### Switch blocks and lampholders

Screw connection, for front plate mounting

**Switch block with 1 contact**

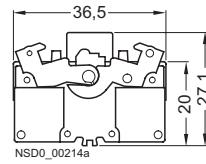


**Switch block with 2 contacts**



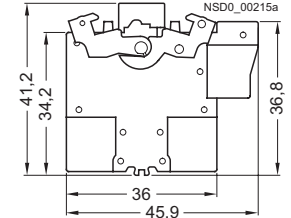
**BA 9s lampholder**

with or without integrated voltage reducer

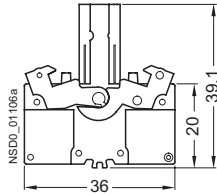


**BA 9s lampholder**

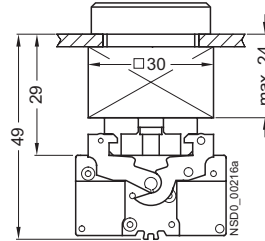
with separate lamp test function



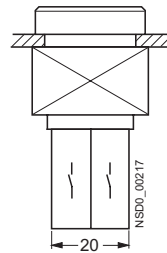
**Lampholder with integrated LED**



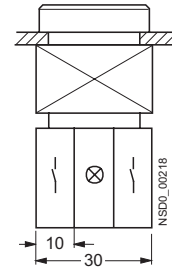
**Pushbutton or illuminated pushbutton with switch blocks with 1 contact**



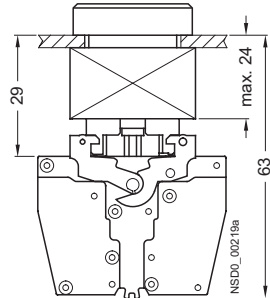
**Pushbutton with switch blocks with 1 contact**



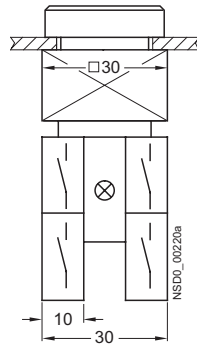
**Illuminated pushbutton with switch blocks with 1 contact and lampholder**



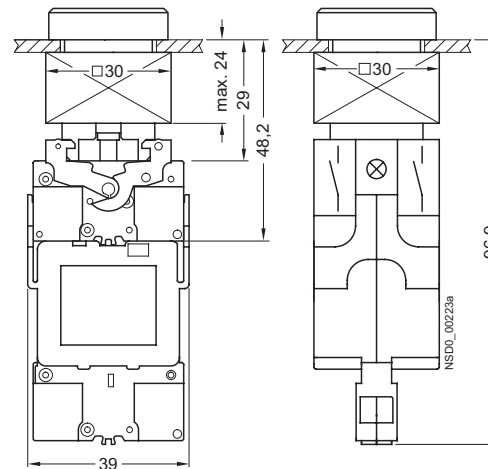
**Pushbutton or illuminated pushbutton with switch blocks with 2 contacts**



**Illuminated pushbutton with switch blocks with 2 contacts and lampholder**

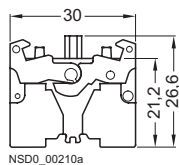


**Illuminated pushbutton with switch blocks with 1 contact and lampholder with snapped-on transformer**

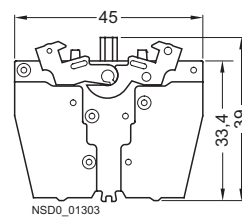


Spring-loaded terminals, for front plate mounting

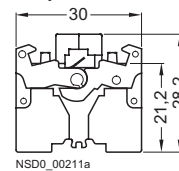
**Switch block with 1 contact**



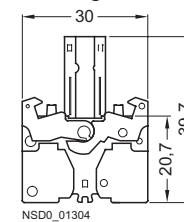
**Switch block with 2 contacts**



**Lampholder BA 9s**



**Lampholder with integrated LED**



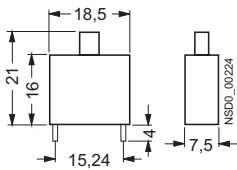
# Pushbuttons and Indicator Lights

## SIGNUM 22 mm Nominal Diameter

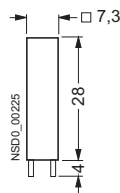
### Project planning aids

With solder pins, for use on PCB

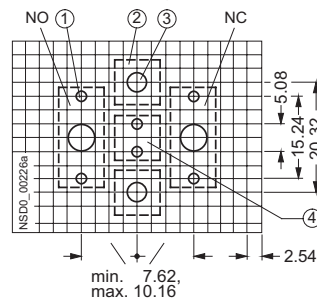
#### Switch block 1 NO and 1 NC



#### Lampholder

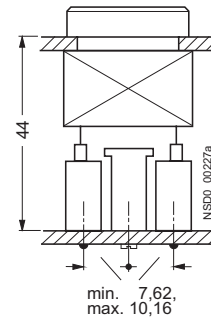


#### Solder pin spacing



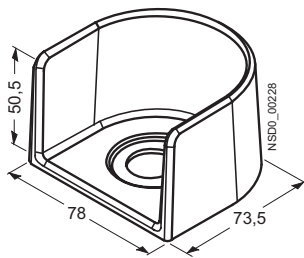
- ① Solder pin  $\varnothing 1.3^{+0.1}$
- ② PCB holder
- ③ Centering hole  $\varnothing 4.2^{+0.1}$
- ④ Lampholder

#### Pushbutton or illuminated pushbutton with switch blocks with 1 contact and PCB support

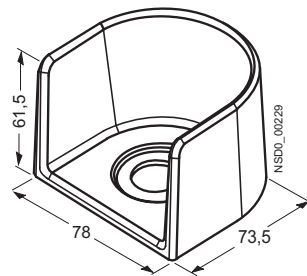


### Accessories

**3SB39 21-0AK protective collar** for front plate mounting <sup>1)</sup>, for EMERGENCY-STOP mushroom pushbutton without key-operated switch



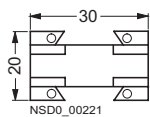
**3SB39 21-0AX protective collar** for front plate mounting <sup>1)</sup>, for EMERGENCY-STOP mushroom pushbutton with key-operated switch



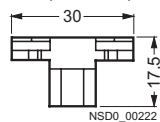
1) Can be used with a front plate thickness up to 4 mm.

### Holder for mounting 3 elements

#### Holder for pushbuttons



#### Holder for selector switch, key-operated switch and On-Off pushbutton, with pressure plate

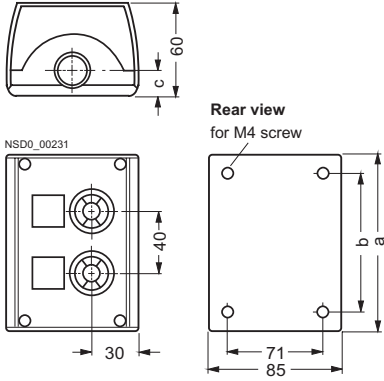


# Pushbuttons and Indicator Lights SIGNUM 22 mm Nominal Diameter

## Project planning aids

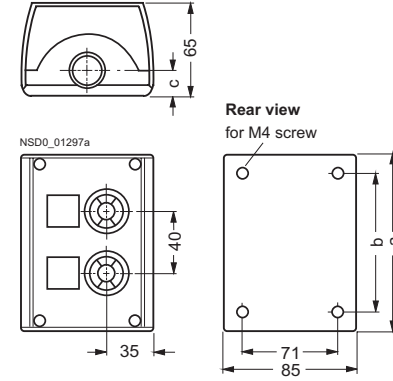
### Enclosures

Enclosure without protective collar, molded plastic



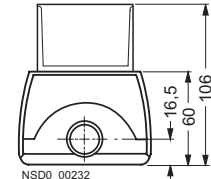
top and bottom with knockouts for one gland each

Enclosure without protective collar, metal



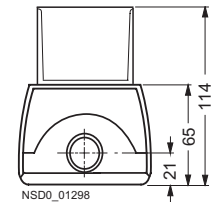
top and bottom with opening for one gland each

Enclosure with protective collar, molded plastic



top and bottom with knockouts for one gland each

Enclosure with protective collar, metal



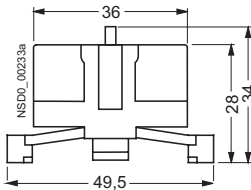
top and bottom with opening for one gland each

Number of command points	Length a	Spacing b	Spacing c
1	85	54	17,5
2	114	83	17,5
3	154	123	17,5
4	194	163	17,5
6	280	249	20,5

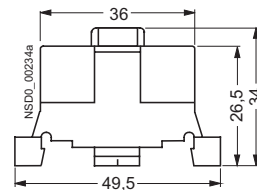
Number of command points	Length a	Spacing b	Spacing c
1	85	54	21
2	114	83	21
3	154	123	21
4	194	163	21
6	280	249	21

### Screw connection, for base mounting

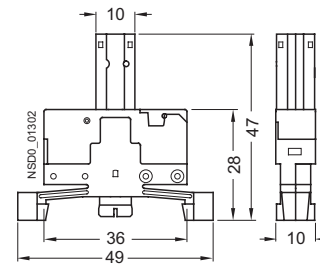
Switch block with 1 contact



BA9s lampholder with or without integrated voltage reducer

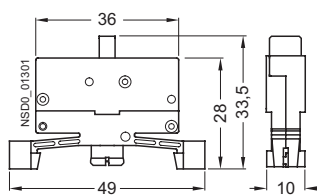


Lampholder with integrated LED

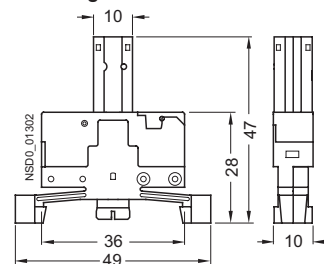


### Spring-loaded terminals, for base mounting

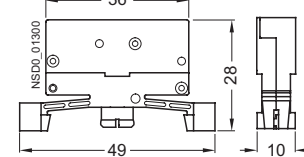
Switch block with 1 contact



Lampholder with integrated LED



Support terminal



# SIGNUM Complete Operating and Display Systems

## Control panels

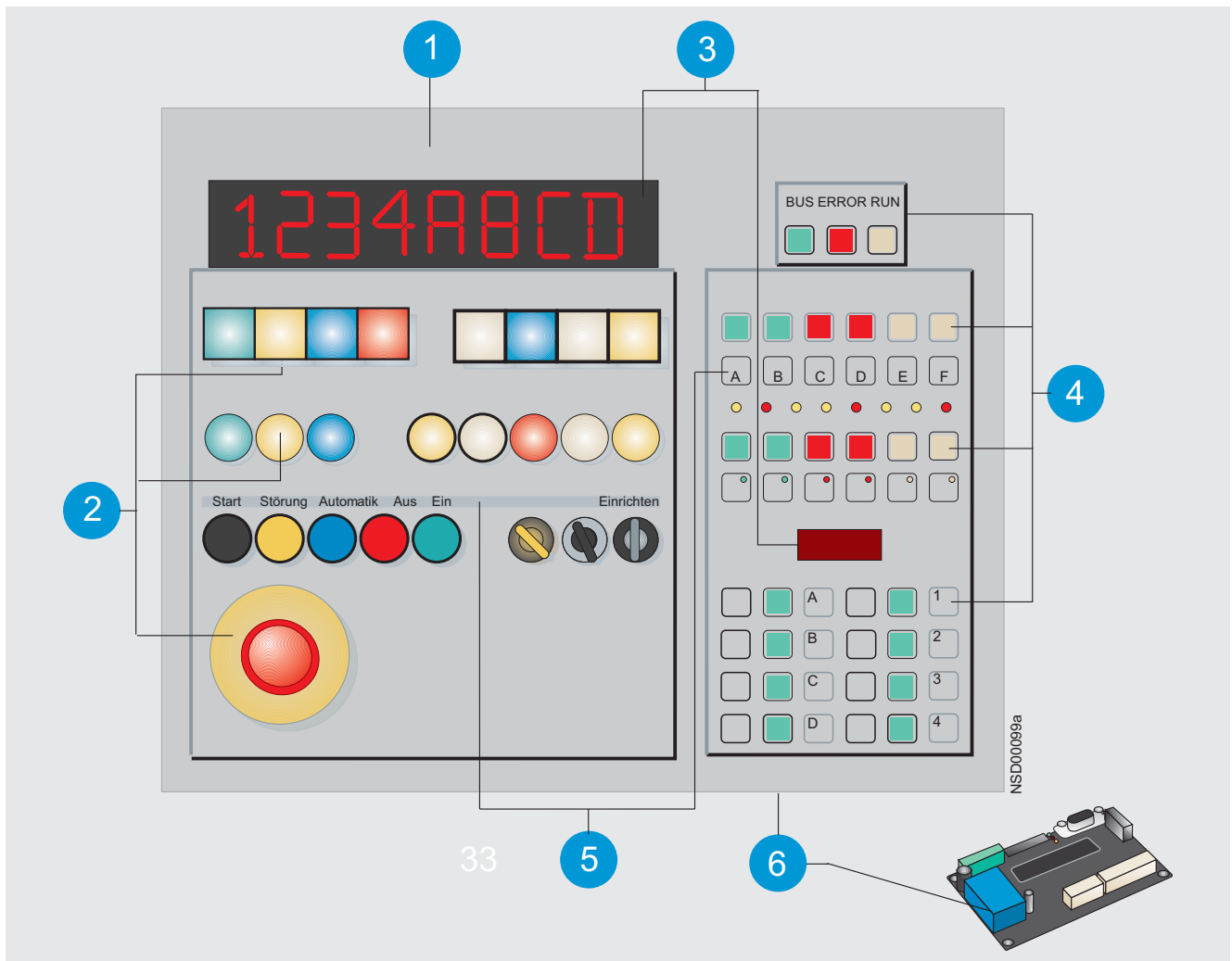
### Overview

SIGNUM 3SB4 complete operator communication systems are interfaces that permit human/machine dialog.

The systems include the operator panel and the associated connection options.

SIGNUM 3SB4 complete operator communication systems are designed and supplied to meet customer-specific requirements. The Order No. is built up from modules according to the design.

### Design



### Design options

#### 1 Front plates

- Any size and shape,
- Different materials, e.g. bare or anodized aluminum, sheet-steel, plastic; also film-coated
- Various colors

#### Equipment

- 2 Conventional 3SB1, 3SB2 and SIGNUM 3SB3 pushbuttons and indicator lights, round or square design
- 3 Indication and visualization components, e.g. multi-digit 7-segment displays and LED text displays
- 4 Membrane keyboards with and without embossing, with metal spring washers or short-stroke keys, with point illumination or fully-illuminated keypads
- Integration of other flush-mounted devices, e.g. measuring instruments, potentiometer operating mechanisms (not shown)

#### 5 Inscription

- Printed on the front plate, anodized
- Direct on the operating surface of the pushbuttons or using insert labels or name plates
- Using foils: printed, with push-in strips.

#### Connections

On request, all designs can be supplied ready to connect:

- 6 With interfaces for connection to an AS interface, PROFIBUS DP and other fieldbus systems
- Conventional with screw connections or with solder connections for assembly on printed circuit boards

#### Enclosure

On request, all versions are available in enclosures.



# SIGNUM Complete Operating and Display Systems

## Control panels

### Fieldbus systems

For the AS-Interface and PROFIBUS DP fieldbus systems and further bus systems, standardized solid-state units are available that can be used to link each individually designed control panel into the required bus environment without the need for costly programming work.

This function is available for both membrane keyboards, short-stroke keys and LEDs of the 3SB4 series, and for conventional SIGNUM 3SB3 control circuit devices.

### Technical specifications

#### Fieldbus systems

Field bus interfaces for complete SIGNUM	16E/16A AS-Interface	PROFIBUS DP/I
3SB4 operator systems		
Supply voltage	DC 24 V (from AS-Interface over the AS-i Bus)	DC 24 V
Static outputs	16	8
Static inputs	16	–
Multiplex LED	–	64
Multiplex keys	–	64
Serial interface	yes	yes
MFI interface	no	yes

### Options

#### Delivery options

The control panels can be obtained directly from our partner Dyna Systems GmbH.

For address, see Appendix, Section 15, External Partners.

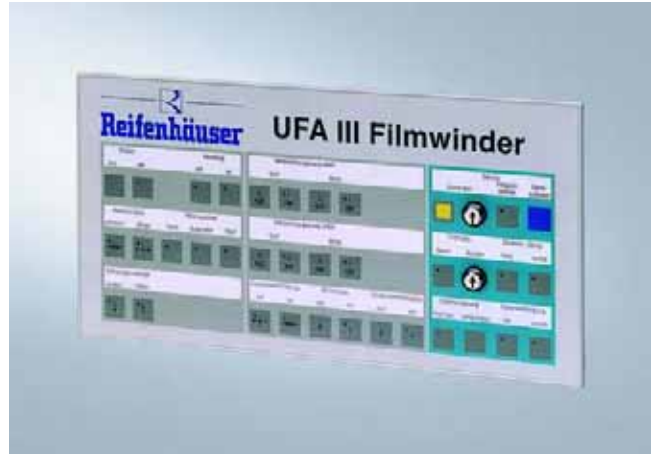
All the necessary equipment and services are available here from a single source.

- Advice during conception and design,
- Design suggestions,
- Development and supply of hardware by selection of suitable equipment,
- Development and supply of layouts for the printed circuit boards,
- Development and supply of the necessary software (function blocks, GSD files) for interfacing to the PLC,
- Preparation of necessary manufacturing and testing equipment,
- Manufacturing,
- Delivery with documentation (complete with necessary software),
- Customer service.

### Examples for implementation

The following are available:

- Control panels with membrane keyboard
- Control panels with SIGNUM 3SB3 command and signaling devices
- Control panels with membrane keyboard and SIGNUM 3SB3 command and signaling devices



Operator panel with membrane keypad



Control panels with SIGNUM 3SB3 command and signaling devices

# SIGNUM Complete Operating and Display Systems

## LEDs

### Technical specifications

LED display		Numeric	Alphanumeric
Type of display		7-segment LED	LED dot-matrix display
Color		Red or green	Red or green
Operating voltage range		DC 24 V (via AS-i bus for AS-Interface)	DC 24 V
Power consumption for digit height	10 mm 13 mm 17 mm 20 mm 30 mm	0.15 W per digit 0.15 W per digit – 0.2 W per digit 0.3 W per digit	– – 0.2 W per digit – 0.3 W per digit
Display	With AS-i bus With PROFIBUS DP With A/D converter	0 ... 9 and A, b, -, blank 0 to 9 and A, b, C, d, E, F, H, L, o, P, r, U 000 ... ±1999	– ASCII code –
• Input ranges	With A/D converter	DC 0 to ±2 V, DC 0 to ±10 V, 0 to ±20 mA, 4 to 20 mA	–
• Display value	With A/D converter		–
- DC at 0 ... ±2 V		600 ... 1999	
- DC at 0 ... ±10 V		625 ... 1999	
- DC at 1 ... 5 V		for 1 V: –75 ... 275; for 5 V: 1730 ... 1999	
- at 0 ... 20 mA		580 ... 1999	
- at 4 ... 20 mA		at 4 mA: –435 ... 75; at 20 mA: 580 ... 1999	
• Decimal point	With A/D converter	Permanently adjustable to specification	–
Addressed		1 address per display. With AS-Interface: After the 15th addressing procedure, the display retains the last address	
Baud rate	With PROFIBUS DP	12 MBaud	1.5 MBaud
Enclosure		Flush mounting enclosure acc. to DIN, metal	
• Mounting		Screw clamps acc. to DIN	
• Degree of protection	At the front With AS-Interface	IP54 IP65	
Ambient temperature	in operation during storage	0 ... +50 °C –25 ... +70 °C	0 ... +45 °C –10 ... +60 °C
EMC		Acc. to Guideline 89/336/EC (or EMVG)	
• Interference transmission		Basic specification IEC 61000-6-4, EN 61000-6-4 Product specification EN 55011, Group 1/2, Class A, March 1991 Edition Limit curve identical to EN 55022	
• Interference resistance		Basic specification IEC 61000-6-2, EN 61000-6-2	

### Selection and ordering data

Design Character height, digits	Color	DT	Order No.	PS*	Weight per PU, approx. kg
<b>Numeric LED display for flush mounting, with A/D converter <sup>1)</sup></b>					
10 mm, 3 ½ digits	red	C	<b>3SB41 01-1AD</b>	1 unit	0.300
13 mm, 3 ½ digits	red	C	<b>3SB41 01-1BD</b>	1 unit	0.300
20 mm, 3 ½ digits	red	C	<b>3SB41 01-1CD</b>	1 unit	0.300
<b>Numeric LED display for flush mounting, with AS-Interface <sup>2)</sup></b> with 4 additional, isolated, digital inputs					
13 mm, 4 digits	red	C	<b>3SF41 02-1B</b>	1 unit	0.300
	green	C	<b>3SF41 02-2B</b>	1 unit	0.300
30 mm, 4 digits	red	C	<b>3SF41 02-1D</b>	1 unit	0.300
	green	C	<b>3SF41 02-2D</b>	1 unit	0.300
<b>Numeric LED display for flush mounting, with PROFIBUS DP <sup>3)</sup></b>					
13 mm, 6 digits	red	C	<b>3SF41 03-1BG</b>	1 unit	0.300
<b>Alphanumeric LED display for flush mounting, with PROFIBUS DP <sup>3)</sup></b>					
17 mm, 8 digits	red	C	<b>3SF41 13-1EJ</b>	1 unit	0.300
30 mm, 8 digits	red	C	<b>3SF41 13-1HJ</b>	1 unit	0.300

Further technical specifications as well as programming examples for function blocks and GSD files are available on the Internet:

[www.siemens.de/bediensysteme](http://www.siemens.de/bediensysteme)

1) The input range and the measured variable must be stated in plain text in your order. Input ranges according to the table above without additional charge.

All other input ranges not listed here can be ordered by specifying the range in plain text. This is subject to an extra charge (see above).

An extra charge also applies for indicating the measured variable or units, e.g. m, °C, mbar, m<sup>3</sup>/h (see above).

2) For interfacing with the PLC (S5, S7-300, S7-400), function block sample programs are included with each delivery.

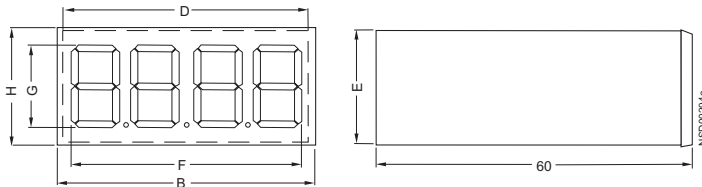
3) The GSD file is included with every delivery.

## Options

Special designs of numeric displays, e.g. special sizes, can be obtained directly from our partners microSYST Systemelectronic GmbH.

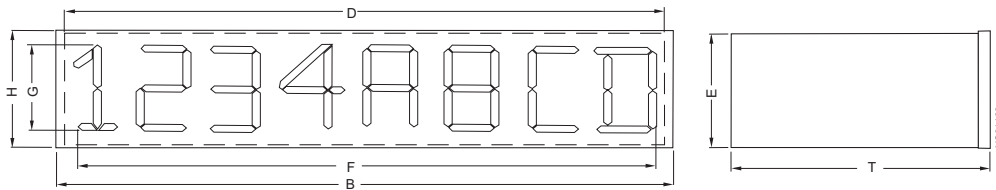
## Dimension drawings

### Numerical LED display for flush mounting



Character height G	B	H	D	E	Panel cutout
10	48	24	43.5	20	$45^{+0.6} \times 22.2^{+0.3}$
13	96	24	92	20	$92^{+0.8} \times 22.2^{+0.3}$
20	96	48	92	43	$92^{+0.8} \times 45^{+0.3}$
30	144	48	138	43	$138^{+0.6} \times 45^{+0.6}$

### Alphanumeric LED display for flush mounting



Character height G	F	B	H	D	E	T	Panel cutout
17	139	168	24	158	20	61	$165^{+1} \times 21^{+0.3}$
30	225	264	48	254	40	40	$255^{+1} \times 41^{+0.6}$

# Control and Signaling Devices

Notes

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