

Color Proximity Sensor SPLC

- ◆ The smallest sensor using white light
- ◆ 3 color-sense switching outputs (RGB)
- ◆ 12...32 mm scanning distance
- ◆ 50x50x17 housing size
- ◆ teach-in function
- ◆ 270° rotate connector



The SPLC proximity sensor, distributed by COMECO and manufactured by SENSOART, is a sensor for detection of colors. Unlike expensive color measurement devices, the SPLC sensor compares a color with a reference color taught-in beforehand. Up to 3 different colors can be assigned to three output channels. Color sensors are used in many fields of automation.

Some typical application fields can be packaging machinery, food industry, pharmaceutical and cosmetic industry, beverage industry and other automation systems.

The SPLC sensor is one of the first color sensors using the white light LED technology, which enables a small sized and light device with a favorable price.

SP

Normal operating mode	External teach-in	Color selectivity

Technical specifications

Sensing Input

Measuring Input signal	Color-sensing distance
Scanning range	12...32 mm
Scanning distance tolerance	± 6 mm
Color selectivity tolerance	adjustable in 5 steps
Used light	white, pulsed
Light spot	4 mm at 22 mm distance

Control Inputs & Outputs

Operating mode	normal	external
Color control outputs	3 (Q1, Q2, Q3)	1 teach-in (Q1)
Output type	PNP NO	PNP NO
Teach-in input (Q3)	No (internal)	Yes
Response time		2 ms
Acknowledgment signal (Q2)	No	50 ms (after Q3)
Blanking input	Yes (10 ms response time)	
Interlocking input	Yes (50 ms response time)	
Max. output current	100 mA	
Output voltage drop	maximum 2.4 V	
Stand-by delay	300 ms	
Switching frequency	500 Hz	
Short circuit protection	Yes	
Polarity reverse protection	Yes	

Indication and adjusting

Operation indication	Green LED
Output indication	3 x Yellow LED
Tolerance indication	3-point Red LED bar-graph
Adjusting	Teach-in by 2 keys or external

Power supply

Supply voltage	18...28 VDC
Consumption (no load)	< 40 mA at 24 VDC
Residual ripple	< 10%

Operating conditions

Operating temperature	-10 to 55 °C
Storage temperature	-20 to 80 °C

Design and materials

Casing material	ABS, shock-resistant
Wiring	8-pin connector M12
Maximum cable length	100 m
Protection class	IP-67
Weight	app. 40 g

Ordering code



SPLC★ - #1#2#3

Code	Feature or option	Code values
★	Operating mode	1 - normal (internal teach-in) , 2 - external teach-in
#123	Accessories *	C - cable with 8-pin connector, B - mounting bracket, F - reflex foil

* More than one option can be ordered

COMECO reserves the right of changing specifications without prior notice!