COMECO CONTROL & MEASUREMENT

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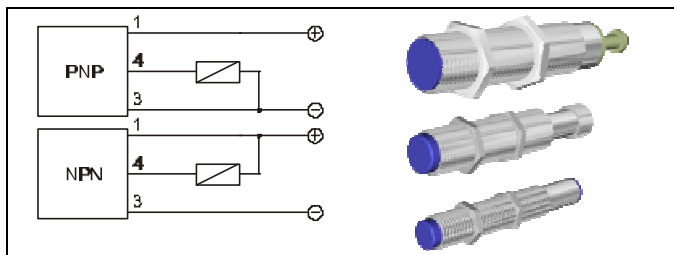B S EN ISO 9001
Reg. No FM 4013444

Inductive Sensors with Fixed Output SPIF

- ♦ **Low price and High reliability**
- ♦ **Up to 15 mm sense**
- ♦ **Diameters from 4 to 30 mm**

The COMECO inductive sensor series **SPIF**, manufactured by INFRA, cover a wide range of most popular and well-known sensors with fixed output. This series includes inductive sensors from 4 to 30 mm diameters. Using the shown wiring diagrams, the operator can simulate NPN, PNP, NO or NC output logic.

Technical specifications

Power supply

Supply voltage	10 to 30 VDC (+10% -15%)
Absorption at 24 VDC	< 10 mA

Output

Output type	NO or NC, selectable
Switching possibilities	200 mA (100mA for ⌀4/5)
Voltage drop at 100mA	1V(4/5), 1.2V(6.5/8/12),1.8V(18/30)
Hysteresis	maximum 10%
Residual ripple	maximum 10%
Start-up delay	< 50 ms
Short circuit protection	Yes (self-reset)
Electric protection	Against polarity reverse

Indication and adjusting

Indication	Operation LED
Pre-set	factory set

Operating conditions

Operating temperature	-25 to 60 °C (70 °C for 6.5/8)
Storage temperature	-40 to 80 °C

Design and materials

Casing material	Up to ⌀8 - stainless steel ⌀12/18/30 - Nickel plated brass
Wiring	2m cable 3x0.14 or 3x0.25 mm²
Output connector (option)	4-pin connector M8 or M12
Protection class	IP-67

SP

Diameter	Æ4	Æ5	Æ6.5		Æ8	
Parameter						
Shield	Yes	Yes	Yes	No	Yes	No
Switching distance	0.8 mm	0.8 mm	1.5 or 2 mm [(1)]	2 mm	1.5 or 2 mm [(1)]	2 mm
Switching frequency	0.8 kHz	0.8 kHz	1 or 0.5 kHz [(1)]	1 kHz	1 or 0.5 kHz [(1)]	1 kHz
Repeatability	≤ 1%	≤ 1%	≤ 1%	≤ 1%	≤ 1%	≤ 1%
Weight with cable or	50 g	50 g	80 g		80 g	
with connector M8/M12	-	40/ g	40/ g		40/55 g	

Diameter	Æ12		Æ18		Æ30	
Parameter						
Shield	Yes	No	Yes	No	Yes	No
Switching distance	2 or 4 mm [(1)]	4 mm	5 or 8 mm [(1)]	8 mm	10 or 15 mm [(1)]	15 mm
Switching frequency	1 or 0.5 kHz [(1)]	1 kHz	1 or 0.5 kHz [(1)]	1 kHz	0.3 or 0.2 kHz [(1)]	0.3 kHz
Repeatability	≤ 1%	≤ 1%	≤ 1%	≤ 2%	≤ 1%	≤ 2%
Weight with cable or	110 g		145 g		210 g	
with connector M8/M12	60/60 g		/95 g		/170 g	

[(1)] For increased sensing range only

Ordering code   ➡   **SPIF - G0.G1.G2.G3 - #1**

Code	Feature or option	Code values
G0	Housing type	**N** - normal, **S** - short type. Not available for ⌀4 and M5.
G1	Mounting thread	**4** - ⌀4, **5** - M5x0.5, **6** - ⌀6.5, **8** - M8x1, **12** - M12x1, **18** - M18x1, **30** - M30x1.5
G2	Input sensing range	**N** - normal, **I** - increased. All sensors with increased range have SHORT housings!
G3	Output type	**ON** - NO NPN, **CN** - NC NPN, **OP** - NO PNP, **CP** - NC PNP
#1	Output connector	**X** - none (cable output), **C1** - output connector M12, **C2** - output connector M8

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