



Standard series

Features



- Can be installed flush or non-flush in metal
- PNP or NPN output
- Normally open/ normally closed function
- Short-circuit protection (pulsed)
- Robust brass housing, nickel-plated with fine thread M18 x 1 mm
- Cable or connector
- Enclosure rating IP 67
- LED status indicator
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Accessories

Round connectors

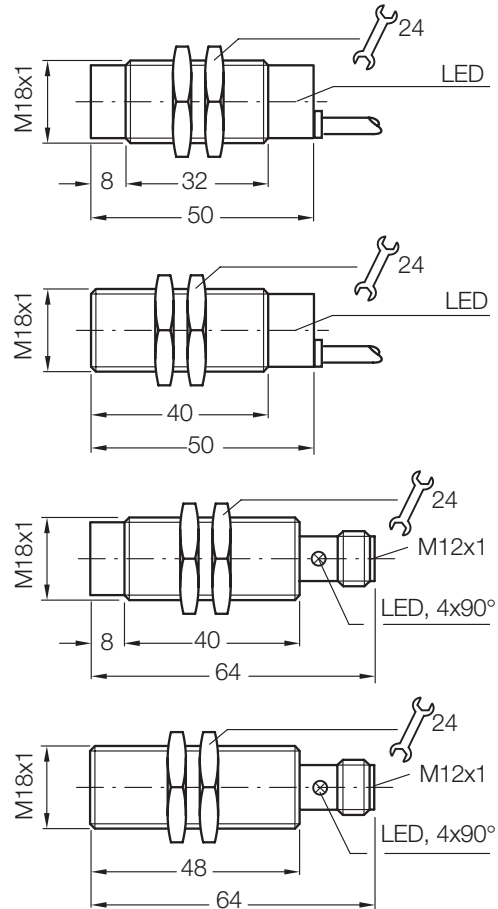
Mounting bracket

Inductive proximity sensors

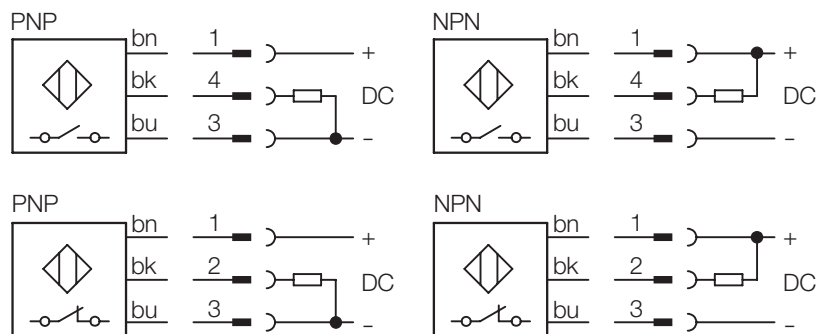
IM 18 series, sensing range 5 / 8 mm

DC 3-wire, metal housing

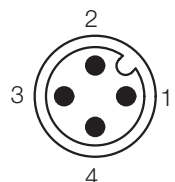
Dimensions in mm



Connection diagram



Wire colour	Contact	Assignment
bn brown	1	+ V DC
bk black	2/4	NC/NO
bu blue	3	- V DC



Electrical and mechanical data

Operating voltage U_b	10 ... 30 V DC	Short-circuit protection (pulsed)	yes
Ripple U_{pp}	$\leq 10\%$	Reverse polarity protection	yes
Voltage drop U_d (at I_a max.)	≤ 1 V	Power-up pulse suppression	yes
Power consumption (without load)	≤ 20 mA	Enclosure rating to EN 60529	IP 67
Continuous current I_a	≤ 400 mA	Shock and vibration stress	30 g, 11 ms 10 to 55 Hz, 1 mm
Time delay before availability t_v	≤ 100 ms	Ambient temperature T_a	- 25 ... + 70 °C
Hysteresis H	2% - 10% of s_r	Housing material	Brass, nickel-plated, plastic
Repeatability R (U_b and T_a constant)	$\leq 2\%$ of s_r	Tightening torque	30 Nm
Temperature drift	$\pm 10\%$ of s_r	Connection cable	PVC, 3 x 0.34 mm ²
EMC	to EN 60 947-5-2		

Selection table

Sensing range s_n mm	Installation in metal	Switching output	Switching function	Switching frequency f in Hz	Connection	Type	Order number
5		PNP		600	Cable 2 m	IM18-05BPS-ZW1	6011987
5		NPN		600	Cable 2 m	IM18-05BNS-ZW1	6011988
5		PNP		600	Cable 2 m	IM18-05BPO-ZW1	6011989
5		PNP		600	Connector M12 x 1 mm	IM18-05BPS-ZC1	6011991
5		NPN		600	Connector M12 x 1 mm	IM18-05BNS-ZC1	6011992
5		PNP		600	Connector M12 x 1 mm	IM18-05BPO-ZC1	6011993
8		PNP		600	Cable 2 m	IM18-08NPS-ZW1	6011995
8		NPN		600	Cable 2 m	IM18-08NNS-ZW1	6011996
8		NPN		600	Cable 2 m	IM18-08NNO-ZW1	6011998
8		PNP		600	Connector M12 x 1 mm	IM18-08NPS-ZC1	6011999
8		NPN		600	Connector M12 x 1 mm	IM18-08NNS-ZC1	6012000
8		PNP		600	Connector M12 x 1 mm	IM18-08NPPO-ZC1	6012001