



Multitalents

Features



- Free configurable output functions in one sensor
PNP / NO, PNP / NC
NPN / NO, NPN / NC
- Can be installed flush or non-flush in metal
- Short-circuit protection
- Robust brass housing, nickel-plated with fine thread M12 x 1 mm
- Cable or connector
- Enclosure rating IP 67
- LED status indicator (NO function)

Accessories

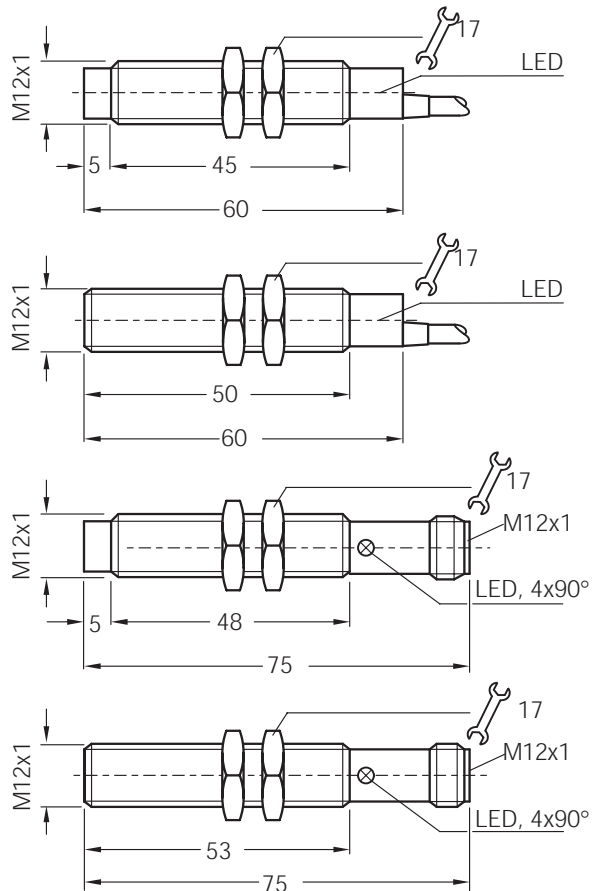
Round connectors
Mounting bracket

Inductive proximity sensors

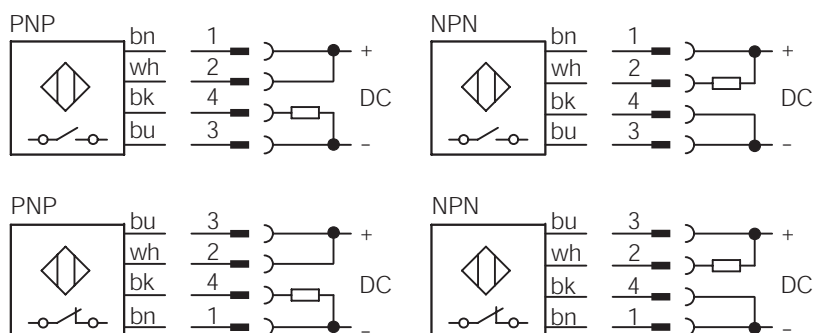
IM 12 series, sensing range 2 / 4 mm

DC 4-wire, metal housing

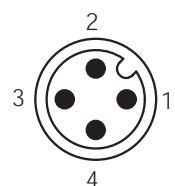
Dimensions in mm



Connection diagram



Wire colour	Contact	configurable output function			
		PNP		NPN	
bn	brown	1	+V DC	-V DC	+V DC
wh	white	2	+V DC	+V DC	NO
bu	blue	3	-V DC	+V DC	-V DC
bk	black	4	NO	NC	-V DC



Electrical and mechanical data

Operating voltage U_b	10 ... 30 V DC	Short-circuit protection	yes
Ripple U_{pp}	$\leq 10\%$	Reverse polarity protection	yes
Voltage drop U_d (at I_a max.)	≤ 1.2 V	Power-up pulse suppression	yes
Power consumption (without load)	≤ 30 mA	Enclosure rating to EN 60529	IP 67
Continuous current I_a	≤ 100 mA	Shock and vibration stress	30 g, 11 ms 10 to 55 Hz, 1 mm
Time delay before availability t_v	≤ 250 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)	$\leq 5\%$ of s_r	Tightening torque	15 Nm
Temperature drift	$\pm 10\%$ of s_r	Connection cable	PVC, 4 x 0.22 mm ²
EMC	to EN 60 947-5-2		

Selection table

Sensing range s_n mm	Installation in metal	Switching output	Output function	Switching frequency f in Hz	Connection	Type	Order number
2		PNP/NPN config.	 config.	1000	Cable 2 m	IM12-02BCP-ZW1	7902927
2		PNP/NPN config.	 config.	1000	Connector M12 x 1 mm	IM12-02BCP-ZC1	7902928
4		PNP/NPN config.	 config.	1000	Cable 2 m	IM12-04NCP-ZW1	7902929
4		PNP/NPN config.	 config.	1000	Connector M12 x 1 mm	IM12-04NCP-ZC1	7902930