



Miniature series

Features



- ▶ Can be installed flush
- ▶ PNP or NPN output
- ▶ Normally open function
- ▶ High switching frequency
- ▶ Short-circuit protection (pulsed)
- ▶ Robust brass housing, nickel-plated with fine thread M8 x 1 mm
- ▶ Cable or Connector
- ▶ Enclosure rating IP 67
- ▶ LED status indicator

Accessories

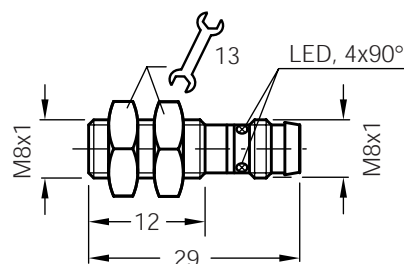
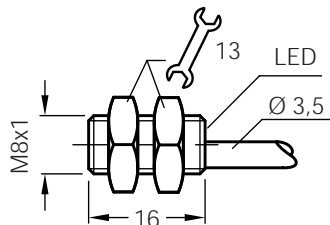
Round connectors

Inductive proximity sensors

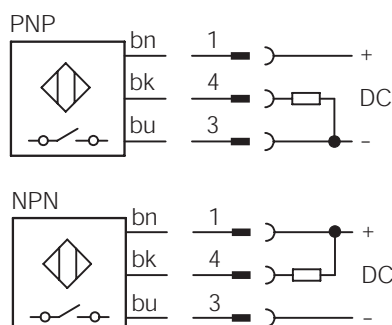
IM 08 series, sensing range 1.5 mm

DC 3-wire, metal housing

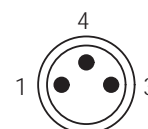
Dimensions in mm



Connection diagram



Wire colour	Contact	Assignment
bn brown	1	+ V DC
bk black	4	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}	$\leq 20\%$ of U_b	Reverse polarity protection	yes
Voltage drop U_d (at $I_a = 200$ mA)	≤ 2.0 V max.	Power-up pulse suppression	yes
Power consumption (without load)	≤ 10 mA	Enclosure rating to EN 60529	IP 67
Continuous current I_a	≤ 200 mA	Shock and vibration stress	30 g, 11 ms 10 to 55 Hz, 1 mm
Time delay before availability t_v	≤ 10 ms	Ambient temperature T_a	- 25 ... + 70 °C
Hysteresis H	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	4 Nm
Temperature drift	$\pm 10\%$ of s_r	Connection cable	PVC, 3 x 0.14 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
1.5		PNP		5000	Cable 2 m	IM08-1B5PS-ZWK	6020111
1.5		NPN		5000	Cable 2 m	IM08-1B5NS-ZWK	6020173
1.5		PNP		5000	Connector M8 x 1 mm	IM08-1B5PS-ZTK	6020112
1.5		NPN		5000	Connector M8 x 1 mm	IM08-1B5NS-ZTK	6020176

Normally closed function available on request