



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 M5 x 0.5 mm
- Cable or Connector
- Enclosure rating IP 67
- LED status indicator

Accessories

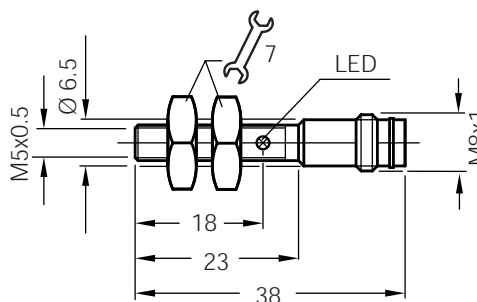
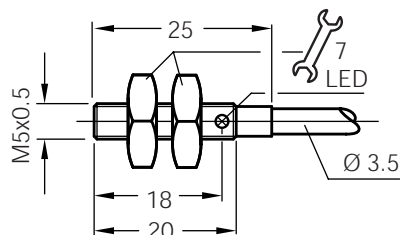
Round connectors

Inductive proximity sensors

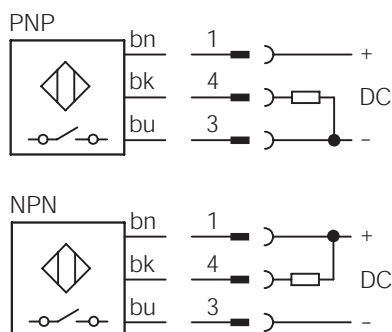
IM 05 series, sensing range 0.8 mm

DC 3-wire, miniature metal housing

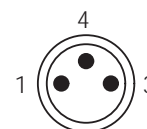
Dimensions in mm



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 typ.	10% of s_r	Housing material	Brass, nickel-plated, plastic
Repeatability R (U_b and T_a constant)	$\leq 1,5\%$	Tightening torque	1.5 Nm
Temperature drift EMC	$\pm 10\%$ of s_r to EN 60 947-5-2	Connection cable	PVC, 3 x 0.14 mm ²

Selection table

Sensing range s_n mm	Installation in metall	Switching output	Output function	Switching frequency f in Hz	Connection	Type	Order number
0.8		PNP		5000	Cable 2 m	IM05-0B8PS-ZW1	6011591
0.8		NPN		5000	Cable 2 m	IM05-0B8NS-ZW1	6020155
0.8		PNP		5000	Connector M8 x 1	IM05-0B8PS-ZT1	6020110
0.8		NPN		5000	Connector M8 x 1	IM05-0B8NS-ZT1	6020158

Normally closed function available on request