

For harsh environment

Features

 ϵ

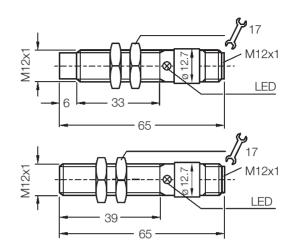
- For harsh environment, resistant to most cutting oils
- ► Enclosure rating IP 68
- Can be installed flush or non-flush in metal
- ► PNP or NPN output
- ► Complementary output function
- Short-circuit protection (pulsed)
- ▶ Robust brass housing, nickel-plated with fine thread M12 x 1 mm
- Internal enclosure housing in technopolymer
- ▶ Connector
- ► LED status indicator (NO function)

Accessories

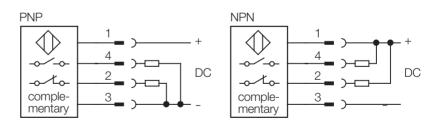
Round connectors Mounting bracket

Inductive proximity sensors IM 12 series, sensing range 2 / 4 mm DC 4-wire, metal housing

Dimensions in mm



Connection diagram



	Wire colour		Contact	Assignment
bn	b	rown	1	+ V DC
wh	V	vhite	2	NC
bu		blue	3	- V DC
bk	k	olack	4	NO



46 SICK

Electrical and mechanical data

Operating voltage U_h 10 ... 30 V DC Ripple \bigcup_{pp} Voltage drop \bigcup_{d} ≤ 10% ≤ 1.2 V (at I_a max.) ≤ 20 mA **Power consumption** (without load) Continuous current | ≤ 100 mA Time delay before ≤ 100 ms availability t Hysteresis H 2% - 10% of s_r **Repeatability R** \leq 5% of s_r (U_b and T_a constant) **Temperature drift** ± 10% of s, EMC to EN 60 947-5-2 **Short-circuit protection** yes (pulsed) **Reverse polarity protection** yes Power-up pulse suppression yes IP 68 **Enclosure rating Shock and vibration** 30 g, 11 ms 10 to 55 Hz, 1 mm stress Ambient temperature T_a - 25 ... + 70 °C **Housing material** Brass, nickel-plated, plastic **Tightening torque** 10 Nm

Selection table

Sensing range s _n mm	Installation in metal	Switching output	Output function	Switching frequency f in Hz	Connection	Туре	Order number
2		PNP	complementary	2000	Connector M12 x 1 mm	IM12-02BPP-ZC1	7902923
2		NPN	complementary	2000	Connector M12 x 1 mm	IM12-02BNP-ZC1	7902924
4		PNP	complementary	2000	Connector M12 x 1 mm	IM12-04NPP-ZC1	7902925
4		NPN	complementary	2000	Connector M12 x 1 mm	IM12-04NNP-ZC1	7902926

8 007 755.0703 SICK