



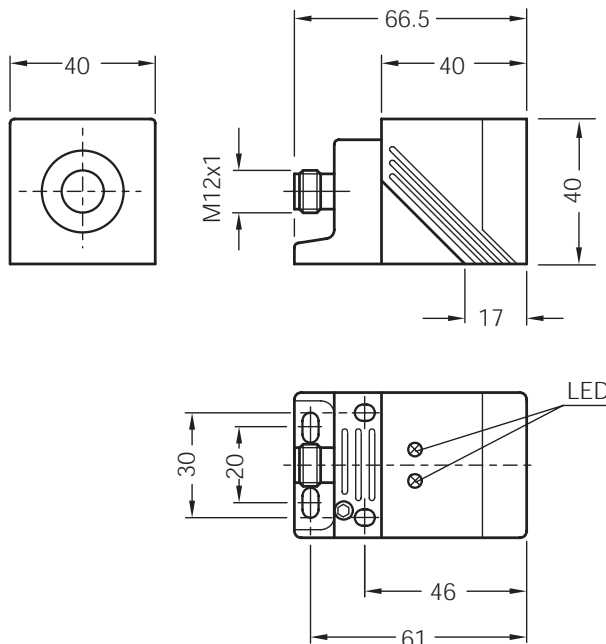
Short version

Inductive proximity sensors

IQ 40 series, sensing range 15 / 20 / 35 mm

DC 3/4-wire, plastic housing

Dimensions in mm



Features

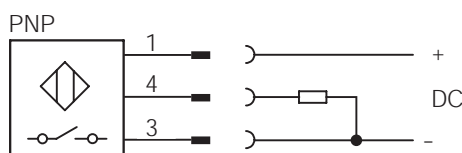


- Can be installed flush or non-flush in metal
- Variable switching zone
- PNP output
- NO and complementary output function
- Short-circuit protection (pulsed)
- Plastic housing
- Connector
- Enclosure rating IP 67
- LED status indicator
- LED function indicator
- Installation notes see page 17
- (only normally open function)

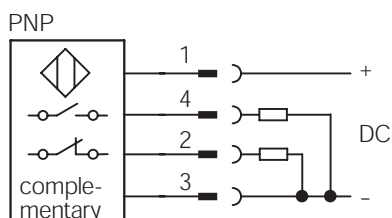
Accessories

Round connectors

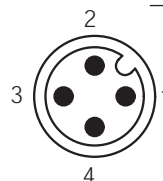
Connection diagram



Contact	Assignment
1	+ V DC
4	NO
3	- V DC
2	free



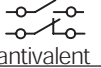
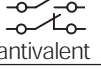
Contact	Assignment
1	+ V DC
2	NC
3	- V DC
4	NO



Electrical and mechanical data

Operating voltage U_b	10 ... 36 V DC	Short-circuit protection (pulsed)	yes
Voltage drop U_d (at I_a max. and U_b 24 V)	≤ 2.5 V	Reverse polarity protection	yes
Power consumption (without load)	≤ 15 mA	Power-up pulse suppression	yes
Continuous current I_a	≤ 250 mA	Enclosure rating to EN 60529	IP 67
Time delay before availability t_v	approx. 4 ms	Protection class	
Hysteresis H	1% - 15% of s_r	Shock and vibration stress	30 g, 11 ms 10 to 55 Hz, 1 mm
Repeatability R (U_b and T_a constant)	$\leq 10\%$ of s_r	Ambient temperature T_a	- 25 ... + 70 °C
Temperature drift EMC	$\pm 10\%$ of s_r to EN 60 947-5-2	Housing material	Plastic

Selection table

Sensing range s_n mm	Installation in metal	Switching output	Output function	Switching frequency f in Hz	Connection	Type	Order number
15		PNP		300	Connector M12 x 1 mm	IQ40-15BPS-KC0	7900223
20		PNP	 antivalent	200	Connector M12 x 1 mm	IQ40-20BPP-KCK	6012014
35		PNP		100	Connector M12 x 1 mm	IQ40-35NPS-KC0	7900224
35		PNP	 antivalent	100	Connector M12 x 1 mm	IQ40-35NPP-KCK	6012015