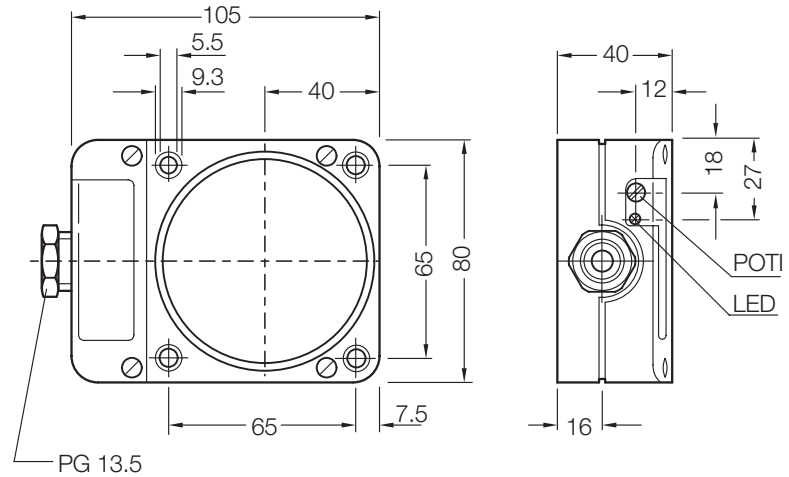


Inductive proximity sensors

IQ 80 series, sensing range 60 mm

DC 3-wire, plastic housing

Dimensions in mm

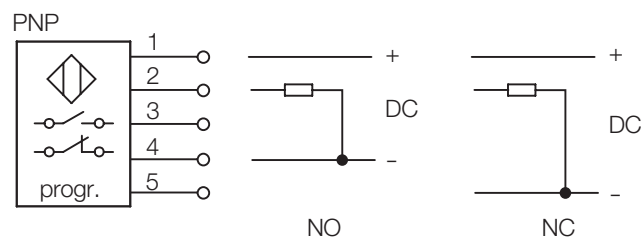


Features



- ▶ Can be installed non-flush in metal
- ▶ Adjustable switching distance between 20 to 60 mm
- ▶ PNP output
- ▶ Programmable NO/NC function
- ▶ Short-circuit protection (pulsed)
- ▶ Robust plastic housing
- ▶ Terminal connection
- ▶ Enclosure rating IP 65
- ▶ LED status indicator
- ▶

Connection diagram

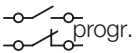


Terminal	Assignment
1	+ V DC
2	Output
3	free
4	- V DC / NO
5	- V DC / NC

Electrical and mechanical data

Operating voltage U_b	10 ... 36 V DC	Short-circuit protection (pulsed)	yes
Voltage drop U_d	≤ 2.5 V at I_a max. and U_b 24 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 65
Time delay before availability t_v	approx. 250 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 ... + 80 °C
Temperature drift	$\pm 10\%$ of s_r	Housing material	Plastic
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
60		PNP		4	Terminal up to 2.5 mm ²	Q80-60NPP-KK0	7900227