



Inductive proximity sensors Rectangular housing, IQ80

IQ80-60NPP-KK0



Model Name > IQ80-60NPP-KK0
Part No. > 7900227



At a glance

- Operating distance adjustable to 60 mm
- Wire configurable NO or NC function
- Terminal or M12 connection
- DC and AC/DC versions available

Your benefits

- Increased machine throughput with less machine downtime
- Maintenance cost reduction and reduced mechanical damage due to long sensing range
- Reduced maintenance cost due to longer service life
- Time-saving quick and easy installation



Features

Housing:	Rectangular
Dimensions (W x H x D):	80 mm x 40 mm x 105 mm
Sensing range S_n :	60 mm
Assured sensing range S_a :	48.6 mm
Installation type:	Non-flush
Switching frequency:	100 Hz
Output type:	PNP
Output function:	NC or NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 65 ¹⁾
Connection type:	Terminal connection with M20 gland
Housing:	Standard
Output characteristic:	Wire configurable

¹⁾ According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 36 V DC
Voltage drop:	$\leq 2.5 \text{ V}$ ¹⁾
Power consumption:	$\leq 15 \text{ mA}$ ²⁾
Hysteresis:	1 % ... 15 %
Temperature drift (% of S_r):	$\pm 10 \%$
EMC:	According to EN 60947-5-2

Output current I _a :	≤ 250 mA
Off-state current:	≤ 0.5 mA
Wire size:	≤ 2.5 mm ²
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient operating temperature:	-25 °C ... 80 °C
Housing material:	Plastic
Sensing face material:	Plastic, PPE
Terminal thread size:	M20 x 1.5

1) With I_a max and U_b 24 V 2) Without load

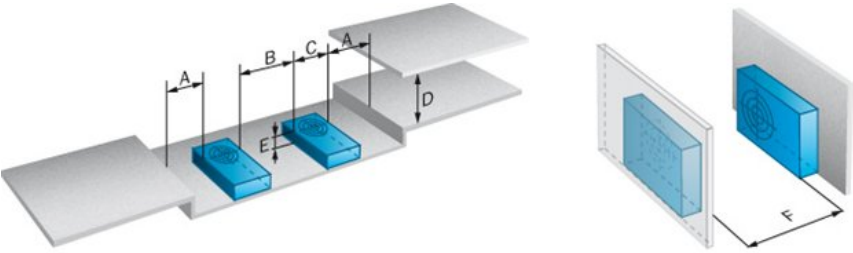
Reduction factors

Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.7
Copper (Cu):	Ca. 0.2
Aluminum (Al):	Ca. 0.3
Brass (Br):	Ca. 0.4

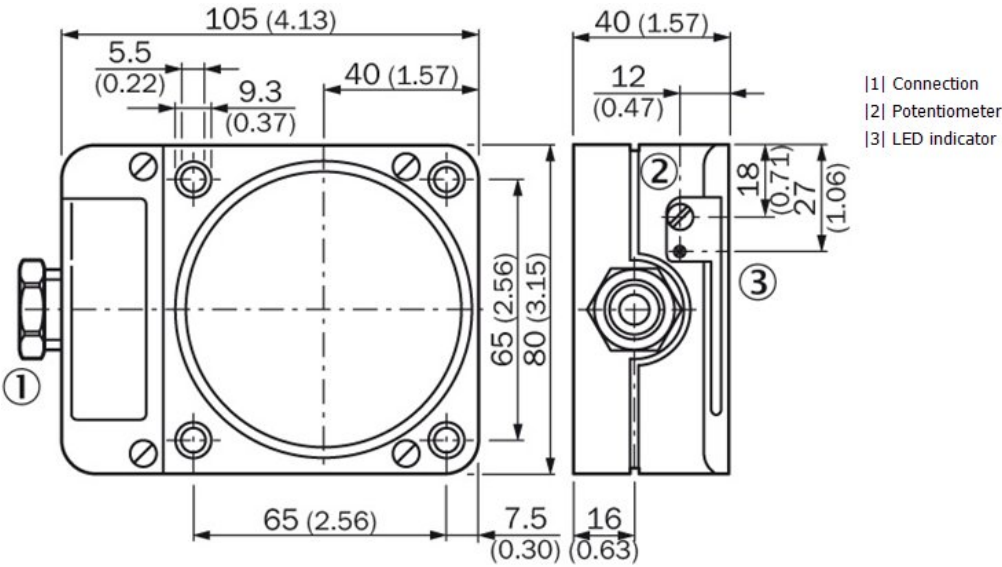
Installation note

A:	160 mm
B:	160 mm
C:	80 mm
D:	120 mm
E:	40 mm
F:	480 mm
Remark:	Associated graphic see "Installation"

Installation note

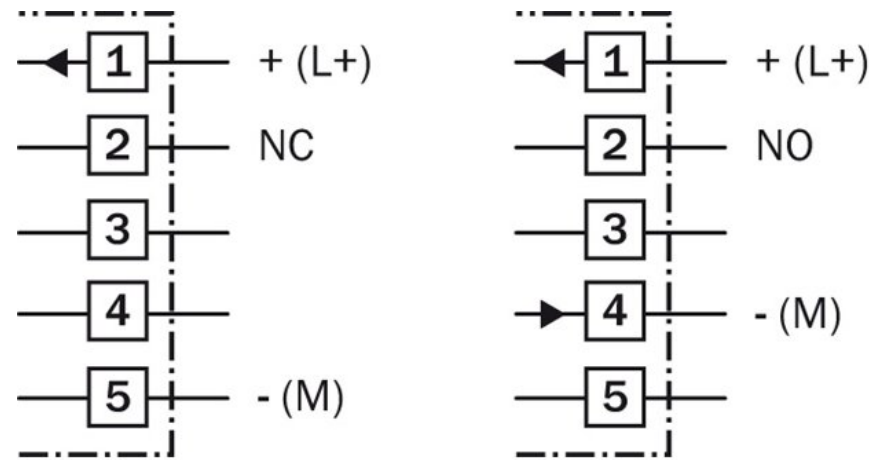


Dimensional drawing

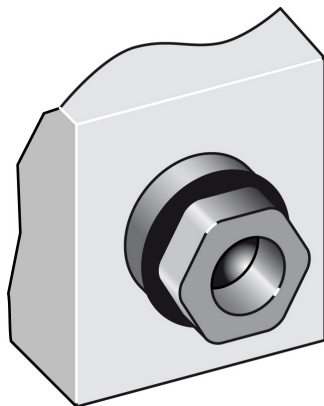


All dimensions in mm (inch)

Connection diagram



Connection type



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