

IQ80-60NPP-KK0

INDUCTIVE PROXIMITY SENSORS



IQ80-60NPP-KK0 | IQL

INDUCTIVE PROXIMITY SENSORS





Туре	Part no.
IQ80-60NPP-KK0	7900227

Other models and accessories -> www.sick.com/IQL



Detailed technical data

Features

Housing	Rectangular
Housing	Standard design
Dimensions (W x H x D)	80 mm x 105 mm x 40 mm
Sensing range S _n	60 mm
Safe sensing range S _a	48.6 mm
Installation type	Non-flush
Switching frequency	100 Hz
Connection type	Terminal connection with M20 gland
Switching output	PNP
Output function	NC or NO
Output characteristic	Wire configurable
Electrical wiring	DC 3-wire
Enclosure rating	IP65 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 36 V DC
Voltage drop	\leq 2.5 V ¹⁾
Hysteresis	1 % 15 %
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 250 mA
Off-state current	≤ 0.5 mA
Cable gland clamping area	M20 1.5
Wire size	≤ 2.5 mm ²

 $^{\mbox{1})}$ With Ia max and Ub 24 V.

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Short-circuit protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +80 °C
Housing material	Plastic, PPE
Sensing face material	Plastic, PPE

 $^{1)}\ensuremath{\,\text{With}}$ la max and Ub 24 V.

Safety-related parameters

MTTFD	2,043 years
DC _{avg}	0 %
T _M (mission time)	20 years

Reduction factors

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

Installation note

Remark	Associated graphic see "Installation"
A	160 mm
В	160 mm
c	80 mm
D	150 mm
E	40 mm
F	480 mm

Classifications

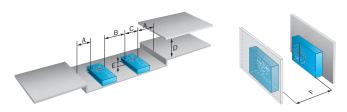
ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714

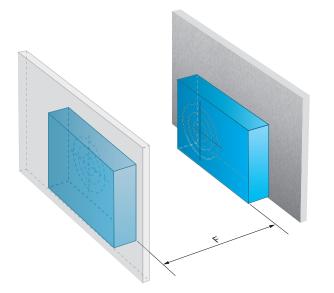
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ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note



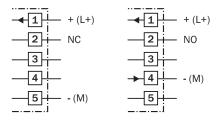


Connection type



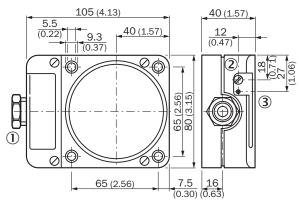
Connection diagram

Cd-024



Dimensional drawing (Dimensions in mm (inch))

IQ80, DC 3-wire



 $\textcircled{1} \quad \textbf{Connection}$

② Potentiometer

③ Display LED

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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

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