

IQ80-60NUP-KKO

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IQ80-60NUP-KK0	7902138

Other models and accessories → www.sick.com/IQL







Detailed technical data

Features

Housing	Rectangular
Housing	Standard
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	4 Hz
Connection type	Terminal connection with M20 gland
Switching output	PNP / NPN
Output function	NC or NO
Output characteristic	Wire configurable
Electrical wiring	AC/DC 2-wire
Enclosure rating	IP65 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	20 V AC/DC 250 V AC/DC
Voltage drop	≤ 6.5 V (AC)
Hysteresis	1 % 15 %

 $^{^{1)}\,\}mathrm{Ub}$ and Ta constant.

 $^{^{}m 3)}$ Repeatability (T_a not constant).

⁴⁾ AC (+50 °C).

⁵⁾ AC (+80 °C).

⁶⁾ DC.

 $^{^{7)}\,20\;\}text{ms}\,/\,0.5\;\text{Hz}.$

 $^{^{8)}}$ Miniature fuse to IEC 60217-2 Sheet 1, \leq 2 A (quick-blow).

 $^{^{9)}}$ Control of small electromagnetic loads with holding currents < 200 mA.

¹⁰⁾ Control of solenoids.

Reproducibility	≤ 10 % ^{1) 2) 3)}
Temperature drift (of S _r)	± 10 %
EMC	As per EN 55011, class B According to EN 60947-5-2
Continuous current I _a	\leq 350 mA $^{4)}$ \leq 250 mA $^{5)}$ \leq 100 mA $^{6)}$
Off-state current	≤ 2.5 mA (AC 250 V)
Minimum load current	> 5 mA
Short-time withstand current	$2.2 \text{ A}^{7)}$
Cable gland clamping area	M20 1.5
Wire size	≤ 2.5 mm²
Short-circuit protection	_ 8)
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
Protection class	II .
Rated insulation voltage U _i	250 V AC
Usage category	AC-140 ⁹⁾ DC-13 ¹⁰⁾
Contamination rating	3
Rated impulse withstand voltage	4 kV

 $^{^{1)}}$ Ub and Ta constant.

Reduction factors

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

Installation note

Remark	Associated graphic see "Installation"
Α	160 mm
В	160 mm
c	80 mm

²⁾ Of Sr.

³⁾ Repeatability (T_a not constant).

⁴⁾ AC (+50 °C).

⁵⁾ AC (+80 °C).

⁶⁾ DC.

 $^{^{7)}}$ 20 ms / 0.5 Hz.

⁸⁾ Miniature fuse to IEC 60217-2 Sheet 1, \leq 2 A (quick-blow).

 $^{^{9)}}$ Control of small electromagnetic loads with holding currents < 200 mA.

¹⁰⁾ Control of solenoids.

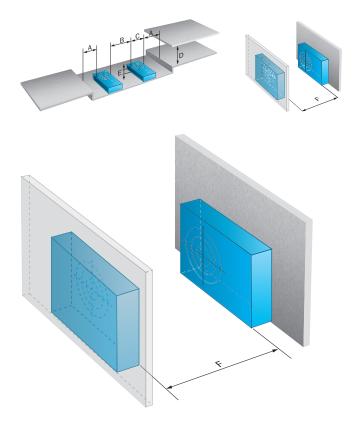
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D	150 mm
E	40 mm
F	480 mm

Classifications

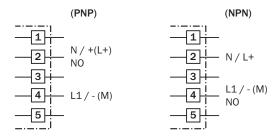
ECI@ss 5.0	27270101
ECI@ss 5.1.4	27270101
ECI@ss 6.0	27270101
ECI@ss 6.2	27270101
ECI@ss 7.0	27270101
ECI@ss 8.0	27270101
ECI@ss 8.1	27270101
ECI@ss 9.0	27270101
ECI@ss 10.0	27270101
ECI@ss 11.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

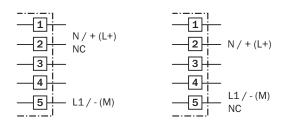
Installation note



Connection diagram

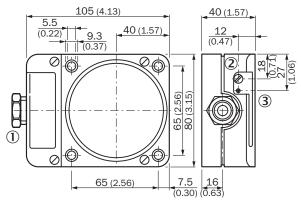
Cd-025





Dimensional drawing (Dimensions in mm (inch))

IQ80, AC/DC 2-wire



- ① Connection
- ② Potentiometer
- 3 Display LED

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