

# IQ40-40NPPKKOS

**INDUCTIVE PROXIMITY SENSORS** 





#### Ordering information

Туре	Part no.
IQ40-40NPPKKOS	1071863

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



#### Detailed technical data

#### **Features**

Housing	Rectangular
Housing	Standard design
Dimensions (W x H x D)	40 mm x 40 mm x 118 mm
Sensing range S <sub>n</sub>	40 mm
Safe sensing range S <sub>a</sub>	32.4 mm
Installation type	Non-flush
Switching frequency	100 Hz
Connection type	Cable gland
Output type	PNP
Output function	Complementary
Electrical wiring	DC 4-wire
Enclosure rating	IP67, IP68, IP69K

#### Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 V <sub>pp</sub> <sup>1)</sup>
Voltage drop	≤ 2 V
Current consumption	$\leq$ 20 mA $^{2)}$
Time delay before availability	≤ 200 ms
Hysteresis	3 % 15 % <sup>3)</sup>
Reproducibility	≤ 6 %
Temperature drift (of S <sub>r</sub> )	± 10 %
Continuous current I <sub>a</sub>	≤ 200 mA
Short-circuit protection	<b>√</b>

<sup>&</sup>lt;sup>1)</sup> Of Ub.

<sup>&</sup>lt;sup>2)</sup> Without load.

 $<sup>^{3)}</sup>$  Of  $S_{r}$ .

<sup>&</sup>lt;sup>4)</sup> Reference voltage: 50 V DC.

Reverse polarity protection	J
Power-up pulse protection	<b>√</b>
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +85 °C
Ambient storage temperature	-40 °C +85 °C
Housing material	Plastic, PA 66
Sensing face material	Plastic, PA 66
Tightening torque, max.	1.8 Nm
Protection class	II <sup>4)</sup>
UL File No.	E348498

<sup>1)</sup> Of Ub.

#### Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.8
Aluminum (AI)	Approx. 0.34
Copper (Cu)	Approx. 0.27
Brass (Br)	Approx. 0.38

#### Installation note

Remark	Associated graphic see "Installation"
Α	42 mm
В	100 mm
c	40 mm
D	120 mm
E	40 mm
F	150 mm

#### Classifications

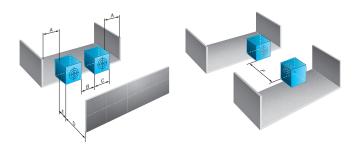
ECI@ss 5.0	27270101
ECI@ss 5.1.4	27270101
ECI@ss 6.0	27270101
ECI@ss 6.2	27270101
ECI@ss 7.0	27270101
ECI@ss 8.0	27270101
ECI@ss 8.1	27270101
ECI@ss 9.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

<sup>2)</sup> Without load.

<sup>3)</sup> Of S<sub>r</sub>.

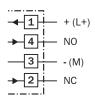
<sup>4)</sup> Reference voltage: 50 V DC.

#### Installation note



#### Connection diagram

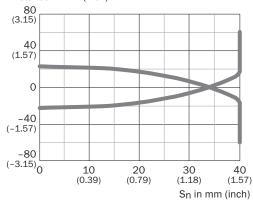
#### Cd-030



#### Characteristic curve

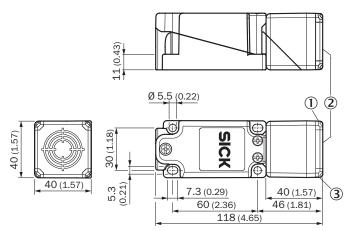
#### IQ40-40Nxxxxx

#### Distance in mm (inch)



#### Dimensional drawing (Dimensions in mm (inch))

IQG Standard, cable gland



- ① LED output state, yellow
- ② Sensing face
- ③ Operational status LED, green

#### Recommended accessories

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

	Brief description	Туре	Part no.	
Plug connecto	Plug connectors and cables			
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-G02M	6009382	
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-G05M	6009866	
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 10 m	DOL-1204-G10M	6010543	
	Head A: female connector, M12, 4-pin, angled with LED Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-L02M	6027945	
	Head A: female connector, M12, 4-pin, angled with LED Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-L05M	6027944	
	Head A: female connector, M12, 4-pin, angled with LED Head B: cable Cable: PVC, unshielded, 10 m	DOL-1204-L10M	6027946	
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-W02M	6009383	
	Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-W05M	6009867	

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Brief description	Туре	Part no.
Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 m	DOL-1204-W10M	6010541
Head A: female connector, M12, 4-pin, straight Head B: - Cable: unshielded	DOS-1204-G	6007302
Head A: female connector, M12, 4-pin, angled Head B: - Cable: unshielded	DOS-1204-W	6007303

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