

IQR80-75NPPKCOS

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IQR80-75NPPKC0S	6069286

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







Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	80 mm x 40 mm x 114 mm
Sensing range S _n	75 mm
Safe sensing range S _a	60.7 mm
Installation type	Non-flush
Switching frequency	250 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Output function	Complementary
Electrical wiring	DC 4-wire
Enclosure rating	IP68
Special features	Reduction factor 1, Weld immune
Special applications	Welding range

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	\leq 1.8 V $^{1)}$
Hysteresis	3 % 15 %
Reproducibility	≤ 2 % ^{2) 3)}
Temperature drift (of S _r)	≤ ± 10 %
Continuous current I _a	≤ 200 mA
No load current	≤ 15 mA

²⁾ Supply voltage Ub and constant ambient temperature Ta.

⁴⁾ Reference voltage: 50 V DC.

Off-state current	≤ 0.1 mA
Short-circuit protection	✓
Reverse polarity protection	✓
Magnetic field strength	≤ 100 mT
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +70 °C
Housing material	Plastic, PBT
Sensing face material	Plastic, PBT
Tightening torque, max.	Typ. 4 Nm
Protection class	II ⁴⁾
UL File No.	E191603

¹⁾ At I. max

Safety-related parameters

MTTF _D	139 years
DC _{avg}	0%
T _M (mission time)	20 years

Reduction factors

Note	The values are reference values which may vary
Reduction factor	Reduction factor 1
Stainless steel (V2A, 304)	1
Aluminum (AI)	1
Copper (Cu)	1
Brass (Br)	1

Installation note

Remark	Associated graphic see "Installation"
A	20 mm
В	160 mm
c	80 mm
D	185 mm
E	40 mm
F	450 mm
G	80 mm

Classifications

eCl@ss 5.0	27270101
eCl@ss 5.1.4	27270101
eCl@ss 6.0	27270101
eCl@ss 6.2	27270101
eCl@ss 7.0	27270101

²⁾ Supply voltage Ub and constant ambient temperature Ta.

³⁾ Of Sr.

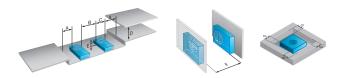
⁴⁾ Reference voltage: 50 V DC.

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eCI@ss 8.0	27270101
eCl@ss 8.1	27270101
eCl@ss 9.0	27270101
eCl@ss 10.0	27270101
eCl@ss 11.0	27270101
eCl@ss 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

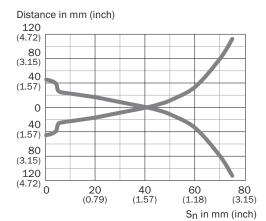
Installation note



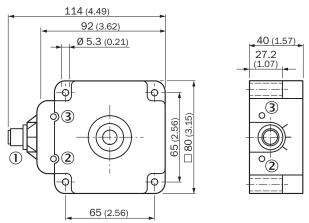
Connection diagram

Cd-009

Response diagram



Dimensional drawing (Dimensions in mm (inch))



- ① M12 x 1
- ② LED output state, yellow
- ③ Operational status LED, green

Recommended accessories

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

	Brief description	Туре	Part no.
Plug connecto	ors and cables		
Head B: Flying le Cable: Sensor/ad Head A: female of Head B: Flying le	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YF2A14- 020UW1XLEAX	2104883
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads	YF2A14- 050UB3XLEAX	2095608
	Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YF2A14- 050UW1XLEAX	2104884
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 2 m	YG2A14- 020UW1XLEAX	2104886
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PUR, halogen-free, unshielded, 5 m	YG2A14- 050UW1XLEAX	2104887

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Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

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