

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

reactives	
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

 $^{^{1)}}$ At I $_{\rm a}$ max.

 $^{^{\}rm 2)}$ Supply voltage $\rm U_B$ and constant ambient temperature Ta.

³⁾ Of Sr

⁴⁾ Reference voltage: 50 V DC.

Off-state current	≤ 0.1 mA
Short-circuit 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 $_{\rm a}$ 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
С	80 mm
D	185 mm
E	40 mm
F	450 mm
G	80 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

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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
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

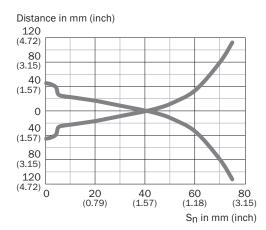
Installation note



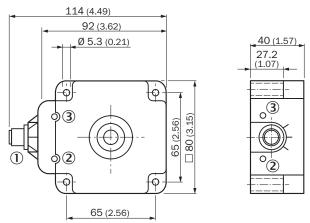
Connection diagram

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.
Others			
	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation 	YF2A14- 050UB3XLEAX	2095608
No.	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation, weld-spark resistant 	YF2A14- 020UW1XLEAX	2104883
	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation, weld-spark resistant 	YF2A14- 050UW1XLEAX	2104884
	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 4-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation, weld-spark resistant 	YG2A14- 020UW1XLEAX	2104886

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