



IQR80-75NPPKCOS

IMR

INDUCTIVE PROXIMITY SENSORS

SICKSensor Intelligence.



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
Switching output detail	PNP
Output function	Complementary
Electrical wiring	DC 4-wire
Enclosure rating	IP68
Special features	Reduction factor 1, Magnetic-field-resistant
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 %

 $^{^{1)}}$ 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.

Continuous current I _a	≤ 200 mA
No load current	≤ 15 mA
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 $\rm I_a$ 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

Certificates

EU declaration of conformity	✓
China RoHS	✓
cULus certificate	√

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³⁾ Of Sr.

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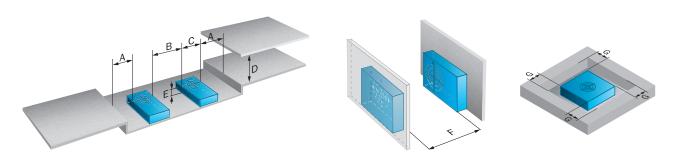
IQR80-75NPPKCOS | IMR

INDUCTIVE PROXIMITY SENSORS

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
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

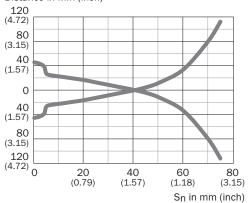
Installation note



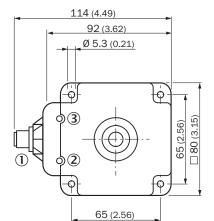
Connection diagram Cd-009

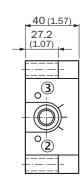
Response diagram





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.	
connectors an	connectors and cables			
	 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, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals, Uncontaminated zones 	YF2A14-050VB3XLEAX	2096235	
	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	

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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.

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

For us, that is "Sensor Intelligence."

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