Product overview

IQG

Compact rectangular inductive sensors with long sensing range for harsh conditions

SICK
Sensor Intelligence.

Technical data overview

Housing	Rectangular
Dimensions	40 mm x 40 mm x 66 mm 40 mm x 40 mm x 118 mm 40 mm x 40 mm x 132 mm
Sensing range S_n	20 mm / 40 mm (depends on variant)
Housing material	Plastic
Enclosure rating	IP67, IP68, IP69K
Housing	Rectangular
Dimensions	40 mm x 40 mm x 66 mm 40 mm x 40 mm x 118 mm 40 mm x 40 mm x 132 mm
Sensing range S_n	20 mm / 40 mm (depends on variant)
Electrical wiring	DC 2-wire DC 3-wire DC 4-wire (depends on variant)
Housing material	Plastic
Enclosure rating	IP67, IP68, IP69K

Product description

The IQG sensors can be mounted in a matter of seconds, offer flexible adjustment options, and are easy to monitor. The innovative push-lock system enables mounting without tools in one second flat and makes replacing sensors child's play. Thanks to the rotating sensor head, the IQG sensors can be adapted to suit a whole range of applications. The four corner LEDs enable straightforward sensor status monitoring, whatever the mounting position. A high ambient temperature range, high shock and vibration resistance and good electromagnetic compatibility enable the IQG product family sensors to work continuously and reliably in very harsh environments with strong atmospheric influences.

At a glance

- Type: 40 mm x 40 mm
- Extended sensing ranges: 20 mm to 40 mm
- Electrical configuration: DC 3-/4-wire
- Enclosure rating: IP68, IP69K
- Temperature range: –25 °C to +85 °C
- Plastic housing
- Push-lock mounting system
- Sensor head can be rotated in five directions

Your benefits

- Easy to mount in only two seconds without the need for additional tools
- Reliable, cost-effective detection
- The four corner LEDs ensure that the sensor status can be identified from any viewing direction, whatever the mounting position
- Can be easily adapted to numerous applications
- Long sensor service life, even in harsh environments that are subjected to severe weather conditions
- Stable processes thanks to extensive sensing ranges

Fields of application

- Positioning of electrical overhead conveyors in storage and conveyor systems
- Positioning of skid conveyors in the automotive industry
- Freight container handling in ports and airports
- Positioning of lifting equipment in the steel industry
- Presence detection of fairground rides

Ordering information

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

- **Product version:** IQ40
- **Sensing range S_n:** 20 mm
- **Installation type:** flush

Switching output	Cuboid shape (W x H x D)	Output function	Connection type	Electrical wiring	Type	Part no.
–	40 mm x 40 mm x 118 mm	NC	Cable gland	DC 2-wire	IQ40-20BDOKK0S	1088283
		NO	Cable gland	DC 2-wire	IQ40-20BDSKK0S	1088282
	40 mm x 40 mm x 66 mm	NC	Male connector M12, 2-pin	DC 2-wire	IQ40-20BDOKC0K	1088279
		NO	Male connector M12, 2-pin	DC 2-wire	IQ40-20BDSKC0K	1088278
NPN	40 mm x 40 mm x 118 mm	Complementary	Cable gland	DC 4-wire	IQ40-20BNPKK0S	1071861
		NC	Cable gland	DC 3-wire	IQ40-20BNOKK0S	1071849
		NO	Cable gland	DC 3-wire	IQ40-20BNSKK0S	1071847
	40 mm x 40 mm x 66 mm	Complementary	Male connector M12, 4-pin	DC 4-wire	IQ40-20BNPKC0K	1071560
		NC	Male connector M12, 4-pin	DC 3-wire	IQ40-20BNOKC0K	1071848
		NO	Male connector M12, 4-pin	DC 3-wire	IQ40-20BNSKC0K	1071846
PNP	40 mm x 40 mm x 118 mm	Complementary	Cable gland	DC 4-wire	IQ40-20BPPKK0S	1071860
		NC	Cable gland	DC 3-wire	IQ40-20BPOKK0S	1071845
		NO	Cable gland	DC 3-wire	IQ40-20BPSKK0S	1071843
	40 mm x 40 mm x 132 mm	Complementary	Male connector M12, 4-pin	DC 4-wire	IQ40-20BPPKC0S	1071862
		NO	Male connector M12, 4-pin	DC 3-wire	IQ40-20BPSKC0S	1071858
	40 mm x 40 mm x 66 mm	Complementary	Male connector M12, 4-pin	DC 4-wire	IQ40-20BPPKC0K	1071553
		NC	Male connector M12, 4-pin	DC 3-wire	IQ40-20BPOKC0K	1071844
		NO	Male connector M12, 4-pin	DC 3-wire	IQ40-20BPSKC0K	1071840
					IQ40-20BPSKC0KP03	1131281

- **Product version:** IQ40
- **Sensing range S_n:** 40 mm
- **Installation type:** non-flush

Switching output	Cuboid shape (W x H x D)	Output function	Connection type	Electrical wiring	Type	Part no.
–	40 mm x 40 mm x 118 mm	NC	Cable gland	DC 2-wire	IQ40-40NDOKK0S	1088285
		NO	Cable gland	DC 2-wire	IQ40-40NDSKK0S	1088284
	40 mm x 40 mm x 66 mm	NC	Male connector M12, 2-pin	DC 2-wire	IQ40-40NDOKC0K	1088281
		NO	Male connector M12, 2-pin	DC 2-wire	IQ40-40NDSKC0K	1088280

Switching output	Cuboid shape (W x H x D)	Output function	Connection type	Electrical wiring	Type	Part no.
NPN	40 mm x 40 mm x 118 mm	Complementary	Cable gland	DC 4-wire	IQ40-40NNPKK0S	1071865
		NC	Cable gland	DC 3-wire	IQ40-40NNOKK0S	1071857
		NO	Cable gland	DC 3-wire	IQ40-40NNSKK0S	1071855
	40 mm x 40 mm x 66 mm	Complementary	Male connector M12, 4-pin	DC 4-wire	IQ40-40NNPKC0K	1071864
		NC	Male connector M12, 4-pin	DC 3-wire	IQ40-40NNOKC0K	1071856
		NO	Male connector M12, 4-pin	DC 3-wire	IQ40-40NNSKC0K	1071854
PNP	40 mm x 40 mm x 118 mm	Complementary	Cable gland	DC 4-wire	IQ40-40NPPKK0S	1071863
		NC	Cable gland	DC 3-wire	IQ40-40NPOKK0S	1071853
		NO	Cable gland	DC 3-wire	IQ40-40NPSKK0S	1071851
	40 mm x 40 mm x 132 mm	Complementary	Male connector M12, 4-pin	DC 4-wire	IQ40-40NPPKC0S	1071866
		NO	Male connector M12, 4-pin	DC 3-wire	IQ40-40NPSKC0S	1071859
	40 mm x 40 mm x 66 mm	Complementary	Male connector M12, 4-pin	DC 4-wire	IQ40-40NPPKC0K	1071552
					IQ40-40NPPKC0KS06	1138519
		NC	Male connector M12, 4-pin	DC 3-wire	IQ40-40NPOKC0K	1071852
		NO	Male connector M12, 4-pin	DC 3-wire	IQ40-40NPSKC0K	1071850
					IQ40-40NPSKC0KS02	1135438

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.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com

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