



# IQG

Compact rectangular housings for use in harsh ambient conditions

**INDUCTIVE PROXIMITY SENSORS**

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Housing</b>	Rectangular
<b>Dimensions</b>	40 mm x 40 mm x 66 mm 40 mm x 40 mm x 118 mm 40 mm x 40 mm x 132 mm
<b>Sensing range <math>S_n</math></b>	20 mm / 40 mm (depending on type)
<b>Housing material</b>	Plastic
<b>Enclosure rating</b>	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: IP 68, IP 69K
- 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](http://www.sick.com/IQG)

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 66 mm
- **Installation type:** flush
- **Electrical wiring:** DC 2-wire

Sensing range $S_n$	Output function	Connection type	Type	Part no.
20 mm	NC	Male connector M12, 2-pin	IQ40-20BDOKCOK	1088279
	NO	Male connector M12, 2-pin	IQ40-20BDSKCOK	1088278

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 66 mm
- **Installation type:** non-flush
- **Electrical wiring:** DC 2-wire

Sensing range $S_n$	Output function	Connection type	Type	Part no.
40 mm	NC	Male connector M12, 2-pin	IQ40-40NDOKCOK	1088281
	NO	Male connector M12, 2-pin	IQ40-40NDSKCOK	1088280

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 118 mm
- **Installation type:** flush
- **Electrical wiring:** DC 2-wire

Sensing range $S_n$	Output function	Connection type	Type	Part no.
20 mm	NC	Cable gland	IQ40-20BDOKKOS	1088283
	NO	Cable gland	IQ40-20BDSKKOS	1088282

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 118 mm
- **Installation type:** non-flush
- **Electrical wiring:** DC 2-wire

Sensing range $S_n$	Output function	Connection type	Type	Part no.
40 mm	NC	Cable gland	IQ40-40NDOKKOS	1088285
	NO	Cable gland	IQ40-40NDSKKOS	1088284

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 66 mm
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
20 mm	NPN	NC	Male connector M12, 4-pin	IQ40-20BNOKCOK	1071848
		NO	Male connector M12, 4-pin	IQ40-20BNSKCOK	1071846
	PNP	NC	Male connector M12, 4-pin	IQ40-20BPOKCOK	1071844
		NO	Male connector M12, 4-pin	IQ40-20BPSKCOK	1071840

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 66 mm
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
40 mm	NPN	NC	Male connector M12, 4-pin	IQ40-40NNOKCOK	1071856
		NO	Male connector M12, 4-pin	IQ40-40NNSKCOK	1071854
	PNP	NC	Male connector M12, 4-pin	IQ40-40NPOKCOK	1071852
		NO	Male connector M12, 4-pin	IQ40-40NPSKCOK	1071850

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 132 mm
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
20 mm	PNP	NO	Male connector M12, 4-pin	IQ40-20BPSKCOS	1071858

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 118 mm
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
20 mm	NPN	NC	Cable gland	IQ40-20BNOKKOS	1071849
		NO	Cable gland	IQ40-20BNSKKOS	1071847
	PNP	NC	Cable gland	IQ40-20BPOKKOS	1071845
		NO	Cable gland	IQ40-20BPSKKOS	1071843

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 132 mm
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
40 mm	PNP	NO	Male connector M12, 4-pin	IQ40-40NPSKCOS	1071859

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 118 mm
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
40 mm	NPN	NC	Cable gland	IQ40-40NNOKKOS	1071857
		NO	Cable gland	IQ40-40NNSKKOS	1071855
	PNP	NC	Cable gland	IQ40-40NPOKKOS	1071853
		NO	Cable gland	IQ40-40NPSKKOS	1071851

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 66 mm
- **Installation type:** flush
- **Electrical wiring:** DC 4-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
20 mm	NPN	Complementary	Male connector M12, 4-pin	IQ40-20BNPKCOK	1071560
	PNP	Complementary	Male connector M12, 4-pin	IQ40-20BPPKCOK	1071553

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 66 mm
- **Installation type:** non-flush
- **Electrical wiring:** DC 4-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
40 mm	NPN	Complementary	Male connector M12, 4-pin	IQ40-40NNPKCOK	1071864
	PNP	Complementary	Male connector M12, 4-pin	IQ40-40NPPKCOK	1071552

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 132 mm
- **Installation type:** flush
- **Electrical wiring:** DC 4-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
20 mm	PNP	Complementary	Male connector M12, 4-pin	IQ40-20BPPKCOS	1071862

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 118 mm
- **Installation type:** flush
- **Electrical wiring:** DC 4-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
20 mm	NPN	Complementary	Cable gland	IQ40-20BNPKKOS	1071861
	PNP	Complementary	Cable gland	IQ40-20BPPKKOS	1071860

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 132 mm
- **Installation type:** non-flush
- **Electrical wiring:** DC 4-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
40 mm	PNP	Complementary	Male connector M12, 4-pin	IQ40-40NPPKCOS	1071866

- **Sub product family:** IQ40
- **Cuboid shape (W x H x D):** 40 mm x 40 mm x 118 mm
- **Installation type:** non-flush
- **Electrical wiring:** DC 4-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
40 mm	NPN	Complementary	Cable gland	IQ40-40NNPKKOS	1071865
	PNP	Complementary	Cable gland	IQ40-40NPPKKOS	1071863

## 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](http://www.sick.com)