



IQG

Compact rectangular housings for use in harsh ambient conditions

INDUCTIVE PROXIMITY SENSORS

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 (depending on type) |
| 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: 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

- **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