



IQV

Flat cubic inductive sensors for industrial use

SICK
Sensor Intelligence.



Technical data overview

| | |
|------------------------------------|---|
| Housing | Rectangular |
| Dimensions | 20 mm x 32 mm x 8 mm 25 mm x 50 mm x 10 mm |
| Sensing range S_n | 7 mm / 5 mm (depending on type) |
| Housing material | Zinc diecast / Aluminum (depending on type) |
| Enclosure rating | IP67 |
| Housing | Rectangular |
| Dimensions | 20 mm x 32 mm x 8 mm 25 mm x 50 mm x 10 mm |
| Sensing range S_n | 7 mm / 5 mm (depending on type) |
| Electrical wiring | DC 3-wire / DC 4-wire (depending on type) |
| Housing material | Zinc diecast / Aluminum (depending on type) |
| Enclosure rating | IP67 |

Product description

When space is tight, the flat design of the IQV sensors are the best choice. Thanks to a low height, they can be easily integrated into applications where space is critical and allow a high degree of freedom when it comes to machine design. Greater sensing ranges of up to 7 mm simplify even the trickiest of detection tasks. Not only the robust metal housing, but also the high tightening torque make flat designs the favorite of installers.

At a glance

- Types: 20 mm x 32 mm x 8 mm or 25 mm x 50 mm x 10 mm
- Extended sensing ranges: 5 mm to 7 mm
- Electrical configuration: DC 3-/4-wire
- Enclosure rating: IP67
- Temperature range: -25 °C to +70 °C
- Metal housing, plastic sensing face
- Flat housing made of robust metal

Your benefits

- Extremely stable and durable
- For applications with limited space
- No restrictions on machine design
- Flat housing provides a high degree of design freedom
- Reliable mounting with high tightening torque

Ordering information

Other models and accessories → www.sick.com/IQV

- **Sub product family:** IQ20
- **Sensing range S_n :** 7 mm
- **Cuboid shape (W x H x D):** 20 mm x 32 mm x 8 mm
- **Installation type:** flush

| Switching output | Output function | Connection type | Electrical wiring | Type | Part no. |
|------------------|-----------------|---|-------------------|----------------|----------|
| NPN | NO | Cable with connector M8, 3-pin, 0.3 m | DC 3-wire | IQ20-07BNSDPOS | 6042044 |
| PNP | Complementary | Cable with M12 male connector, 4-pin, 0.3 m | DC 4-wire | IQ20-07BPPDQ0S | 6042045 |
| | | Cable, 4-wire, 5 m | DC 4-wire | IQ20-07BPPDU5S | 6072660 |
| | NO | Cable with connector M8, 3-pin, 0.3 m | DC 3-wire | IQ20-07BPSDPOS | 6042043 |
| | | Cable, 3-wire, 2 m | DC 3-wire | IQ20-07BPSDU2S | 6045180 |

- **Sub product family:** IQ25
- **Sensing range S_n :** 5 mm
- **Switching output:** PNP
- **Cuboid shape (W x H x D):** 25 mm x 50 mm x 10 mm
- **Installation type:** flush

| Output function | Connection type | Electrical wiring | Type | Part no. |
|-----------------|--------------------|-------------------|----------------|----------|
| Complementary | Cable, 4-wire, 2 m | DC 4-wire | IQ25-05BPPDU2S | 6042047 |
| NO | Cable, 3-wire, 2 m | DC 3-wire | IQ25-05BPSDU2S | 6042046 |

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