



## IQB

Small rectangular housings for use in industrial environments

INDUCTIVE PROXIMITY SENSORS

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Housing</b>	Rectangular
<b>Dimensions</b>	10 mm x 28 mm x 16 mm 12 mm x 40 mm x 26 mm
<b>Sensing range <math>S_n</math></b>	2 mm ... 8 mm (depending on type)
<b>Housing material</b>	Plastic
<b>Enclosure rating</b>	IP68



### Product description

Compact design with best-in-class performance. The IQB sensors offer extended sensing ranges of up to 8 mm and state-of-the-art SICK-ASIC technology. Its proven, reliable design with 270° status display is also ideal for more demanding applications. Extremely rugged VISTAL® housing, innovative hotmelt molding and an IP 68 enclosure rating make the sensors of the IQB product family the first choice for a wide range of applications and ensure the highest possible levels of process reliability and satisfaction.

### At a glance

- Types: 10 mm x 16 mm x 28 mm or 12 mm x 26 mm x 40 mm
- Extended sensing ranges: 2 mm to 8 mm
- Electrical configuration: DC 3-/4-wire
- Enclosure rating: IP 68
- Temperature range: -25 °C to +75 °C
- Tough VISTAL™ housing
- Small version with 270° output state display

### Your benefits

- Best mechanical and electronic stability for extra-long service life
- Highest levels of process reliability for your application
- Long service life that reduce maintenance costs thanks to SICK's ASIC technology and rugged VISTAL® housing
- Precise detection and high sensor accuracy enable fast handling and assembly processes
- Space-saving integration in every application
- High resistance to shock and vibrations reduces maintenance costs
- Quick viewing of sensor status from any position in the room reduces maintenance costs
- Safe, fast mounting without any need for readjustment saves installation time and maintenance costs

### Ordering information

Other models and accessories → [www.sick.com/IQB](http://www.sick.com/IQB)

- **Sub product family:** IQ10
- **Cuboid shape (W x H x D):** 10 mm x 28 mm x 16 mm
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
2 mm	PNP	NC	Connector M8, 3-pin	IQ10-02BPOKT0S	1096027
		NO	Connector M8, 3-pin	IQ10-02BPSKT0S	1096026
3 mm	NPN	NC	Cable with connector M8, 3-pin, with knurled nuts, 0.2 m	IQ10-03BNOKR8S	1062446

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
			Cable, 3-wire, 2 m	IQ10-03BNOKW2S	1055452
			Connector M8, 3-pin	IQ10-03BNOKT0S	1055456
		NO	Cable with connector M8, 3-pin, with knurled nuts, 0.2 m	IQ10-03BNSKR8S	1062445
			Cable, 3-wire, 2 m	IQ10-03BNSKW2S	1055450
			Connector M8, 3-pin	IQ10-03BNSKT0S	1055455
	PNP	NC	Cable, 3-wire, 2 m	IQ10-03BP0KU2S	1078310
				IQ10-03BP0KW2S	1055449
			Connector M8, 3-pin	IQ10-03BP0KT0S	1055454
				IQ10-03BP0K-TOSS01	1057497
		NO	Cable with M12 male connector, 4-pin, 0.2 m	IQ10-03BPSKQ8S	1091756
			Cable with connector M8, 3-pin, with knurled nuts, 0.2 m	IQ10-03BPSKR8S	1062444
				IQ10-03BPSKR8SS14	1066837
			Cable, 3-wire, 2.5 m	IQ10-03BPSK-WDSS15	1069854
				IQ10-03BPSK-WDSS17	1069856
			Cable, 3-wire, 2 m	IQ10-03BPSKW2S	1055447
				IQ10-03BPSK-W2SS03	1062436
			Cable, 3-wire, 4 m	IQ10-03PBSKU4SS16	1069855
			Cable, 3-wire, 6 m	IQ10-03BPSKWDS11	1062443
			Connector M8, 3-pin	IQ10-03BPSKT0S	1055453
				IQ10-03BPSK-TOSS02	1062435
				IQ10-03BPSK-TOSS20	1114883
				IQ10-03BPSK-TOSS21	1119449

- **Sub product family:** IQ10
- **Cuboid shape (W x H x D):** 10 mm x 28 mm x 16 mm
- **Installation type:** flush
- **Electrical wiring:** DC 4-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
3 mm	NPN	Complementary	Cable, 4-wire, 2 m	IQ10-03BNPKW2S	1055466
	PNP	Complementary	Cable with M12 male connector, 4-pin, 0.2 m	IQ10-03BPPKQ8S	1055467
			Cable, 4-wire, 2 m	IQ10-03BPPKW2S	1055465
4 mm	PNP	Complementary	Cable, 4-wire, 2 m	IQ10-04BPP-KW2SS19	1096031

- **Sub product family:** IQ10
- **Cuboid shape (W x H x D):** 10 mm x 28 mm x 16 mm
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
6 mm	NPN	NC	Cable, 3-wire, 2 m	IQ10-06NNOKW2S	1055460
			Connector M8, 3-pin	IQ10-06NNOKT0S	1055464
		NO	Cable, 3-wire, 2 m	IQ10-06NNSKW2S	1055459
			Connector M8, 3-pin	IQ10-06NNSKT0S	1055463
	PNP	NC	Cable, 3-wire, 2 m	IQ10-06NPOKW2S	1055458
			Connector M8, 3-pin	IQ10-06NPOKT0S	1055462
		NO	Cable, 3-wire, 2.5 m	IQ10-06NPSK-WDSS08	1062440
				IQ10-06NPSK-WDSS10	1062442
			Cable, 3-wire, 2 m	IQ10-06NPSKW2S	1055457
				IQ10-06NPSK-W2SS05	1062437
			Cable, 3-wire, 4 m	IQ10-06NPSKU4S09	1062441
			Cable, 3-wire, 6 m	IQ10-06NPSK-WDSS07	1062439
			Connector M8, 3-pin	IQ10-06NPSKT0S	1055461
				IQ10-06NPSK-T0SS06	1062438

- **Sub product family:** IQ12
- **Cuboid shape (W x H x D):** 12 mm x 40 mm x 26 mm
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
2 mm	PNP	NO	Cable, 3-wire, 3 m	IQ12-02BPSKU3SS13	1121550
			Connector M8, 3-pin	IQ12-02BPSK-T0SS06	1080282

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
4 mm	NPN	NC	Cable, 3-wire, 2 m	IQ12-04BNOKW2S	1055431
			Connector M8, 3-pin	IQ12-04BNOKT0S	1055435
		NO	Cable, 3-wire, 2 m	IQ12-04BNSKW2S	1055430
			Cable, 3-wire, 5 m	IQ12-04BNSKW5S	1068304
			Connector M8, 3-pin	IQ12-04BNSKT0S	1055434
	PNP	NC	Cable, 3-wire, 2 m	IQ12-04BP0KW2S	1055429
			Connector M8, 3-pin	IQ12-04BP0KT0S	1055433
		NO	Cable with M12 male connector, 4-pin, 0.2 m	IQ12-04BPSKQ8S	1062453
			Cable with connector M8, 3-pin, 0.2 m	IQ12-04BPSKR8SS10	1116309
			Cable, 3-wire, 2 m	IQ12-04BPSKU2S	1096753
				IQ12-04BPSKW2S	1055428
			Cable, 3-wire, 5 m	IQ12-04BPSKW5S	1085244
			Connector M8, 3-pin	IQ12-04BPSKT0S	1055432
				IQ12-04BPSK-TOSS01	1062454

- **Sub product family:** IQ12
- **Cuboid shape (W x H x D):** 12 mm x 40 mm x 26 mm
- **Installation type:** flush
- **Electrical wiring:** DC 4-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
4 mm	NPN	Complementary	Cable, 4-wire, 2 m	IQ12-04BNPKW2S	1055445
	PNP	Complementary	Cable with M12 male connector, 4-pin, 0.2 m	IQ12-04BPPKQ8S	1055446
			Cable, 4-wire, 2 m	IQ12-04BPPKW2S	1055444
8 mm	PNP	Complementary	Male connector M8, 4-pin	IQ12-08NPP-KTOSS08	1096930

- **Sub product family:** IQ12
- **Cuboid shape (W x H x D):** 12 mm x 40 mm x 26 mm
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
4 mm	PNP	NO	Cable with connector M8, 3-pin, 0.2 m	IQ12-04NPSKR8SS12	1121409
6 mm	PNP	NO	Connector M8, 3-pin	IQ12-06NPSK-TOSS02	1068379

Sensing range $S_n$	Switching output	Output function	Connection type	Type	Part no.
8 mm	NPN	NC	Cable, 3-wire, 2 m	IQ12-08NNOKW2S	1055439
			Connector M8, 3-pin	IQ12-08NNOKT0S	1055443
		NO	Cable, 3-wire, 2 m	IQ12-08NNSKW2S	1055438
			Connector M8, 3-pin	IQ12-08NNSKT0S	1055442
	PNP	NC	Cable, 3-wire, 2 m	IQ12-08NPOKW2S	1055437
			Connector M8, 3-pin	IQ12-08NPOKT0S	1055441
		NO	Cable with M12 male connector, 4-pin, 2 m	IQ12-08NPSKQ2SS09	1107190
			Cable, 3-wire, 2 m	IQ12-08NPSKW2S	1055436
			Cable, 3-wire, 5 m	IQ12-08NPSKW5S	1062452
			Connector M8, 3-pin	IQ12-08NPSKT0S	1055440

## 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)