IQB

Small cubic inductive standard sensors for industrial use

SICK
Sensor Intelligence.

Technical data overview

Housing	Rectangular
Dimensions	10 mm x 28 mm x 16 mm 12 mm x 40 mm x 26 mm
Sensing range S_n	2 mm ... 8 mm (depending on type)
Housing material	Plastic
Enclosure rating	IP68
Housing	Rectangular
Dimensions	10 mm x 28 mm x 16 mm 12 mm x 40 mm x 26 mm
Sensing range S_n	2 mm ... 8 mm (depending on type)
Electrical wiring	DC 3-wire / DC 4-wire (depending on type)
Housing material	Plastic
Enclosure rating	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 IP68 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: IP68
- 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

- **Sub product family:** IQ10
- **Sensing range S$_n$:** 2 mm
- **Switching output:** PNP
- **Cuboid shape (W x H x D):** 10 mm x 28 mm x 16 mm
- **Installation type:** flush
- **Connection type:** Connector M8, 3-pin
- **Electrical wiring:** DC 3-wire

Output function	Type	Part no.
NC	IQ10-02BPOKT0S	1096027
NO	IQ10-02BPSKT0S	1096026

- **Sub product family:** IQ10
- **Sensing range S$_n$:** 3 mm
- **Cuboid shape (W x H x D):** 10 mm x 28 mm x 16 mm
- **Installation type:** flush

Switching output	Output function	Connection type	Electrical wiring	Type	Part no.
NPN	Complementary	Cable, 4-wire, 2 m	DC 4-wire	IQ10-03BNPKW2S	1055466
	NC	Cable with connector M8, 3-pin, with knurled nuts, 0.2 m	DC 3-wire	IQ10-03BNOKR8S	1062446
		Cable, 3-wire, 2 m	DC 3-wire	IQ10-03BNOKW2S	1055452
		Connector M8, 3-pin	DC 3-wire	IQ10-03BNOKT0S	1055456
	NO	Cable with connector M8, 3-pin, with knurled nuts, 0.2 m	DC 3-wire	IQ10-03BNSKR8S	1062445
		Cable, 3-wire, 2 m	DC 3-wire	IQ10-03BNSKW2S	1055450
		Connector M8, 3-pin	DC 3-wire	IQ10-03BNSKT0S	1055455

Switching output	Output function	Connection type	Electrical wiring	Type	Part no.
PNP	Complementary	Cable with M12 male connector, 4-pin, 0.2 m	DC 4-wire	IQ10-03BPPKQ8S	1055467
		Cable, 4-wire, 2 m	DC 4-wire	IQ10-03BPPKW2S	1055465
	NC	Cable, 3-wire, 2 m	DC 3-wire	IQ10-03BP0KU2S	1078310
				IQ10-03BP0KW2S	1055449
		Connector M8, 3-pin	DC 3-wire	IQ10-03BP0KT0S	1055454
				IQ10-03BP0KT0SS01	1057497
	NO	Cable with M12 male connector, 4-pin, 0.2 m	DC 3-wire	IQ10-03BPSKQ8S	1091756
		Cable with connector M8, 3-pin, with knurled nuts, 0.2 m	DC 3-wire	IQ10-03BPSKR8S	1062444
				IQ10-03BPSKR8SS14	1066837
		Cable, 3-wire, 2.5 m	DC 3-wire	IQ10-03BPSKWDSS15	1069854
				IQ10-03BPSKWDSS17	1069856
		Cable, 3-wire, 2 m	DC 3-wire	IQ10-03BPSKW2S	1055447
				IQ10-03BPSKW2SS03	1062436
		Cable, 3-wire, 4 m	DC 3-wire	IQ10-03BPSKU4SS16	1069855
		Cable, 3-wire, 6 m	DC 3-wire	IQ10-03BPSKWDS11	1062443
		Connector M8, 3-pin	DC 3-wire	IQ10-03BPSKT0S	1055453
				IQ10-03BPSKT0SS02	1062435
				IQ10-03BPSKT0SS20	1114883
				IQ10-03BPSKT0SS21	1119449
		Cable with connector Micro, 3-pin, 0.25 m	DC 3-wire	IQ10-03BPSKWDSS18	1071068

- **Sub product family:** IQ10
- **Sensing range S$_n$:** 4 mm
- **Cuboid shape (W x H x D):** 10 mm x 28 mm x 16 mm
- **Installation type:** flush

Switching output	Output function	Connection type	Electrical wiring	Type	Part no.
NPN	Complementary	Cable, 4-wire, 2 m	DC 4-wire	IQ10-04BNPKW2S	1104129
	NO	Cable, 3-wire, 2 m	DC 3-wire	IQ10-04BNSKW2S	1103911
PNP	Complementary	Cable, 4-wire, 2 m	DC 4-wire	IQ10-04BPPKW2SS19	1096031
	NO	Cable, 3-wire, 2 m	DC 3-wire	IQ10-04BPSKW2S	1103807

- **Sub product family:** IQ10
- **Sensing range S$_n$:** 6 mm
- **Cuboid shape (W x H x D):** 10 mm x 28 mm x 16 mm
- **Installation type:** non-flush
- **Electrical wiring:** DC 3-wire

Switching output	Output function	Connection type	Type	Part no.
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 with connector M8, 3-pin, 0.2 m	IQ10-06NPSKR8SS22	1138365
		Cable, 3-wire, 2.5 m	IQ10-06NPSKWDSS08	1062440
			IQ10-06NPSKWDSS10	1062442
		Cable, 3-wire, 2 m	IQ10-06NPSKW2S	1055457
			IQ10-06NPSKW2SS05	1062437
		Cable, 3-wire, 4 m	IQ10-06NPSKU4S09	1062441
		Cable, 3-wire, 6 m	IQ10-06NPSKWDSS07	1062439
		Connector M8, 3-pin	IQ10-06NPSKT0S	1055461
			IQ10-06NPSKT0SS06	1062438

- **Sub product family:** IQ12
- **Sensing range S$_n$:** 2 mm
- **Switching output:** PNP
- **Cuboid shape (W x H x D):** 12 mm x 40 mm x 26 mm
- **Output function:** NO
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Connection type	Type	Part no.
Cable, 3-wire, 3 m	IQ12-02BPSKU3SS13	1121550
Connector M8, 3-pin	IQ12-02BPSKT0SS06	1080282

IQB

- **Sub product family:** IQ12
- **Sensing range S_n:** 4 mm
- **Cuboid shape (W x H x D):** 12 mm x 40 mm x 26 mm

Switching output	Output function	Installation type	Connection type	Electrical wiring	Type	Part no.
NPN	Complementary	Flush	Cable, 4-wire, 2 m	DC 4-wire	IQ12-04BNPKW2S	1055445
	NC	Flush	Cable, 3-wire, 2 m	DC 3-wire	IQ12-04BNOKW2S	1055431
			Connector M8, 3-pin	DC 3-wire	IQ12-04BNOKT0S	1055435
	NO	Flush	Cable, 3-wire, 2 m	DC 3-wire	IQ12-04BNSKW2S	1055430
			Cable, 3-wire, 5 m	DC 3-wire	IQ12-04BNSKW5S	1068304
			Connector M8, 3-pin	DC 3-wire	IQ12-04BNSKT0S	1055434
PNP	Complementary	Flush	Cable with M12 male connector, 4-pin, 0.2 m	DC 4-wire	IQ12-04BPPKQ8S	1055446
			Cable, 4-wire, 2 m	DC 4-wire	IQ12-04BPPKW2S	1055444
	NC	Flush	Cable, 3-wire, 2 m	DC 3-wire	IQ12-04BPOKW2S	1055429
			Connector M8, 3-pin	DC 3-wire	IQ12-04BPOKT0S	1055433
	NO	Flush	Cable with M12 male connector, 4-pin, 0.2 m	DC 3-wire	IQ12-04BPSKQ8S	1062453
			Cable with connector M8, 3-pin, 0.2 m	DC 3-wire	IQ12-04BPSKR8SS10	1116309
			Cable, 3-wire, 2 m	DC 3-wire	IQ12-04BPSKU2S	1096753
					IQ12-04BPSKW2S	1055428
			Cable, 3-wire, 5 m	DC 3-wire	IQ12-04BPSKW5S	1085244
			Cable, 3-wire, 6 m	DC 3-wire	IQ12-04BPSKWDSS05	1075734
			Connector M8, 3-pin	DC 3-wire	IQ12-04BPSKT0S	1055432
					IQ12-04BPSKT0SS01	1062454
		Non-flush	Cable with connector M8, 3-pin, 0.2 m	DC 3-wire	IQ12-04NPSKR8SS12	1121409

- **Sub product family:** IQ12
- **Sensing range S_n:** 5 mm
- **Cuboid shape (W x H x D):** 12 mm x 40 mm x 26 mm
- **Installation type:** flush

Switching output	Output function	Connection type	Electrical wiring	Type	Part no.
NPN	NO	Cable, 3-wire, 2 m	DC 3-wire	IQ12-05BNSKW2S	1103912
PNP	Complementary	Cable, 4-wire, 2 m	DC 4-wire	IQ12-05BPPKW2S	1104130
	NO	Cable, 3-wire, 2 m	DC 3-wire	IQ12-05BPSKW2S	1103808

- **Sub product family:** IQ12
- **Sensing range S$_n$:** 8 mm
- **Cuboid shape (W x H x D):** 12 mm x 40 mm x 26 mm
- **Installation type:** non-flush

Switching output	Output function	Connection type	Electrical wiring	Type	Part no.
NPN	NC	Cable, 3-wire, 2 m	DC 3-wire	IQ12-08NNOKW2S	1055439
		Connector M8, 3-pin	DC 3-wire	IQ12-08NNOKT0S	1055443
	NO	Cable, 3-wire, 2 m	DC 3-wire	IQ12-08NNSKW2S	1055438
		Connector M8, 3-pin	DC 3-wire	IQ12-08NNSKT0S	1055442
PNP	Complementary	Male connector M8, 4-pin	DC 4-wire	IQ12-08NPPKT0SS08	1096930
	NC	Cable, 3-wire, 2 m	DC 3-wire	IQ12-08NPOKW2S	1055437
		Connector M8, 3-pin	DC 3-wire	IQ12-08NPOKT0S	1055441
	NO	Cable with M12 male connector, 4-pin, 2 m	DC 3-wire	IQ12-08NPSKQ2SS09	1107190
		Cable, 3-wire, 2 m	DC 3-wire	IQ12-08NPSKW2S	1055436
		Cable, 3-wire, 5 m	DC 3-wire	IQ12-08NPSKW5S	1062452
		Connector M8, 3-pin	DC 3-wire	IQ12-08NPSKT0S	1055440

- **Sub product family:** IQ12
- **Sensing range S$_n$:** 6 mm
- **Switching output:** PNP
- **Cuboid shape (W x H x D):** 12 mm x 40 mm x 26 mm

Output function	Installation type	Connection type	Electrical wiring	Type	Part no.
NO	Non-flush	Connector M8, 3-pin	DC 3-wire	IQ12-06NPSKT0SS02	1068379

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."

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