



# IQY

Slim cubic inductive sensors for industrial use

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Housing</b>	Rectangular
<b>Dimensions</b>	8 mm x 40 mm x 8 mm 5 mm x 25 mm x 5 mm
<b>Sensing range <math>S_n</math></b>	0.8 mm ... 4 mm (depending on type)
<b>Housing material</b>	Plastic / brass (depending on type)
<b>Enclosure rating</b>	IP67 / IP68 / IP67 (depending on type)
<b>Housing</b>	Rectangular
<b>Dimensions</b>	8 mm x 40 mm x 8 mm 5 mm x 25 mm x 5 mm
<b>Sensing range <math>S_n</math></b>	0.8 mm ... 4 mm (depending on type)
<b>Electrical wiring</b>	DC 3-wire
<b>Housing material</b>	Plastic / brass (depending on type)
<b>Enclosure rating</b>	IP67 / IP68 / IP67 (depending on type)

### Product description

With slim dimensions of just 5 mm x 5 mm or 8 mm x 8 mm, the IQY sensors offer up to 4 mm in sensing range, thereby providing the best performance while taking up the least possible space. Integration into linear units or confined installation spaces is no problem. State-of-the-art SICK-ASIC technology, innovative hotmelt molding and an output state display that is visible from all angles makes a simple solution for modern handling and automation tasks, ensuring the highest levels of production reliability. No matter whether in VISTAL® or metal housing, the sensors of the IQY product family rise to every challenge with ease.

### At a glance

- Types: 5 mm x 5 mm x 25 mm or 8 mm x 8 mm x 40 mm
- Extended sensing ranges: 0.8 mm to 4 mm
- Electrical configuration: DC 3-wire
- Enclosure rating: IP67 or IP68
- Temperature range: -25 °C to +75 °C
- Tough VISTAL™ housing
- Thin version with 270° output state display

### Your benefits

- Easy integration in space-critical applications
- Reliable detection of fast handling and mounting processes
- Quick and easy mounting
- Thin housing provides a high degree of design freedom

## Ordering information

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

- **Sub product family:** IQ08
- **Sensing range  $S_n$ :** 2 mm
- **Cuboid shape (W x H x D):** 8 mm x 40 mm x 8 mm
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Switching output	Output function	Connection type	Type	Part no.
NPN	NC	Cable, 3-wire, 2 m	IQ08-02BNOKW2S	1055493
		Connector M8, 3-pin	IQ08-02BNOKT0S	1055497
	NO	Cable with AMP connector, 850 mm	IQ08-02BNSKUDSS03	1062451
		Cable, 3-wire, 10 m	IQ08-02BNSKW6S	1062450
		Cable, 3-wire, 2 m	IQ08-02BNSKW2S	1055492
		Connector M8, 3-pin	IQ08-02BNSKT0S	1055496
PNP	NC	Cable with connector M8, 3-pin, with knurled nuts, 0.1 m	IQ08-02BP0KR9SS07	1076877
		Cable, 3-wire, 2 m	IQ08-02BP0KW2S	1055491
		Cable, 3-wire, 4 m	IQ08-02BP0KW4SS08	1076878
		Cable, 3-wire, 5 m	IQ08-02BP0KW5S	1085280
		Connector M8, 3-pin	IQ08-02BP0KT0S	1055495
	NO	Cable with connector M8, 3-pin, with knurled nuts, 0.1 m	IQ08-02BPSKR9SS12	1084025
		Cable with connector M8, 3-pin, with knurled nuts, 0.2 m	IQ08-02BPSKR8SS03	1066836
		Cable with connector M8, 3-pin, with knurled nuts, 0.3 m	IQ08-02BPSKR9S	1070093
		Cable, 3-wire, 2 m	IQ08-02BPSKW2S	1055490
			IQ08-02BPSKW2SS01	1062448
		Cable, 3-wire, 5 m	IQ08-02BPSKW5S	1066452
		Connector M8, 3-pin	IQ08-02BPSKT0S	1055494
			IQ08-02BPSKT0SS02	1062449

- **Sub product family:** IQ08
- **Sensing range  $S_n$ :** 1.5 mm
- **Switching output:** PNP
- **Cuboid shape (W x H x D):** 8 mm x 40 mm x 8 mm

Output function	Installation type	Connection type	Electrical wiring	Type	Part no.
NO	Flush	Connector M8, 3-pin	DC 3-wire	IQ08-1B5PSKT0S	1109130

- **Sub product family:** IQ08
- **Sensing range  $S_n$ :** 3 mm
- **Cuboid shape (W x H x D):** 8 mm x 40 mm x 8 mm
- **Output function:** NO
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Switching output	Connection type	Type	Part no.
NPN	Cable, 3-wire, 2 m	IQ08-03BNSKW2S	1105489
	Cable, 3-wire, 3 m	IQ08-03BNSKW3S	1103910
PNP	Cable, 3-wire, 3 m	IQ08-03BPSKW3S	1103529

- **Sub product family:** IQ08
- **Sensing range  $S_n$ :** 4 mm
- **Cuboid shape (W x H x D):** 8 mm x 40 mm x 8 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	IQ08-04NN0KW2S	1055501
		Connector M8, 3-pin	IQ08-04NNOKT0S	1055505
	NO	Cable, 3-wire, 2 m	IQ08-04NNSKW2S	1055500
		Connector M8, 3-pin	IQ08-04NNSKT0S	1055504
PNP	NC	Cable, 3-wire, 2 m	IQ08-04NP0KW2S	1055499
		Connector M8, 3-pin	IQ08-04NP0KT0S	1055503
	NO	Cable with connector M12, 4-pin, angled, 0.3 m	IQ08-04NPSKQDSS11	1081463
		Cable with connector M12, 4-pin, angled, 2 m	IQ08-04NPSKQDSS10	1078878
		Cable with connector M8, 3-pin, with knurled nuts, 0.1 m	IQ08-04NPSKR7SS09	1078195
		Cable with connector M8, 3-pin, with knurled nuts, 0.26 m	IQ08-04NPSKRDSS15	1118197
		Cable with connector M8, 3-pin, with knurled nuts, 0.4 m	IQ08-04NPSKRDSS14	1099989
		Cable, 3-wire, 2 m	IQ08-04NPSKW2S	1055498
Connector M8, 3-pin	IQ08-04NPSKT0S	1055502		

- **Sub product family:** IQ05
- **Sensing range  $S_n$ :** 1.5 mm
- **Switching output:** NPN
- **Cuboid shape (W x H x D):** 5 mm x 25 mm x 5 mm

Output function	Installation type	Connection type	Electrical wiring	Type	Part no.
NO	Flush	Cable, 3-wire, 2 m	DC 3-wire	IQ05-1B5NS-ZU1	6087451

- **Sub product family:** IQ05
- **Sensing range  $S_n$ :** 0.8 mm
- **Cuboid shape (W x H x D):** 5 mm x 25 mm x 5 mm
- **Installation type:** flush
- **Electrical wiring:** DC 3-wire

Switching output	Output function	Connection type	Type	Part no.
NPN	NO	Cable, 3-wire, 2 m	IQ05-0B8NS-ZU1	6020162
PNP	NC	Cable with connector M8, 3-pin, with knurled nuts, 0.2 m	IQ05-0B8PO-ZR1	6073556
		Cable, 3-wire, 2 m	IQ05-0B8PO-ZU1	6020163
	NO	Cable with connector M8, 3-pin, 0.2 m	IQ05-0B8PS-ZUP	6049725
		Cable, 3-wire, 2 m	IQ05-0B8PS-ZU1	6020161

## 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)