PRODUCT INFORMATION

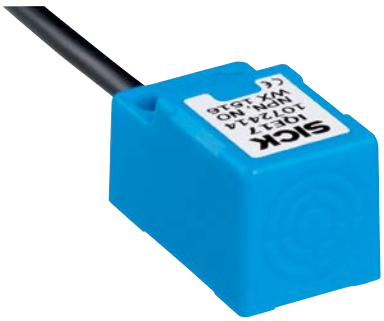
IQE17

MEDIUM-SIZED ECONOMIC STANDARD FOR SIMPLE APPLICATIONS

Inductive proximity sensors

SICK
Sensor Intelligence.

MEDIUM-SIZED ECONOMIC STANDARD FOR SIMPLE APPLICATIONS



Product description

The IQE17 is a compact inductive proximity sensor with a rectangular design, which offers excellent value for money. SICK has developed this sensor specifically for the consumer goods industry and other mass market applications.

The IQE17 offers precise detection, high counting speeds, high repeat accuracy, and reliable performance. Furthermore, the sensor is easy to adapt to different production requirements.

At a glance

- Dimensions (W x H x D): 17 mm x 17 mm x 29.5 mm
- Sensing range: 5 mm
- Electrical configuration: DC 3-wire, DC: 10 V ... 30 V
- Enclosure rating: IP 67
- Ambient operating temperature: –25 °C ... +75 °C
- Switching output: NPN or PNP
- Switching function: Normally open, normally closed
- Switching frequency: 1,000 Hz

Your benefits

- Easy to integrate and replace in existing machines and systems thanks to its standardized mounting surface
- Minimal machine downtime
- Clearly visible LED display for easy commissioning and monitoring
- Precise detection and high counting speeds enable fast handling processes

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→ www.mysick.com/en/IQE17

For more information, just enter the link or scan the QR code and get direct access to technical data, CAD design models, operating instructions, software, application examples and much more.

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Detailed technical data

Features

Housing	Rectangular
Sensing range S_n	5 mm
Assured sensing range S_a	4.05 mm
Installation type	Non-flush
Switching frequency	1,000 Hz
Output type	PNP / NPN (depending on type)
Output function	NO / NC (depending on type)
Electrical wiring	DC 3-wire
Enclosure rating [1)]	IP 67

[1)] According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 10 %
Voltage drop	≤ 2 V
Current consumption	≤ 10 mA
Time delay before availability	≤ 100 ms
Hysteresis	5 % ... 15 %
Repeatability	≤ 2 %
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 200 mA
Connection type	Cable, 2 m, PVC
Short-circuit protection	✔
Reverse polarity protection	✔
Power-up pulse protection	✔
Ambient operating temperature	–25 °C ... +75 °C
Housing material	Plastic
Tightening torque, max.	0.9 Nm

Reduction factors

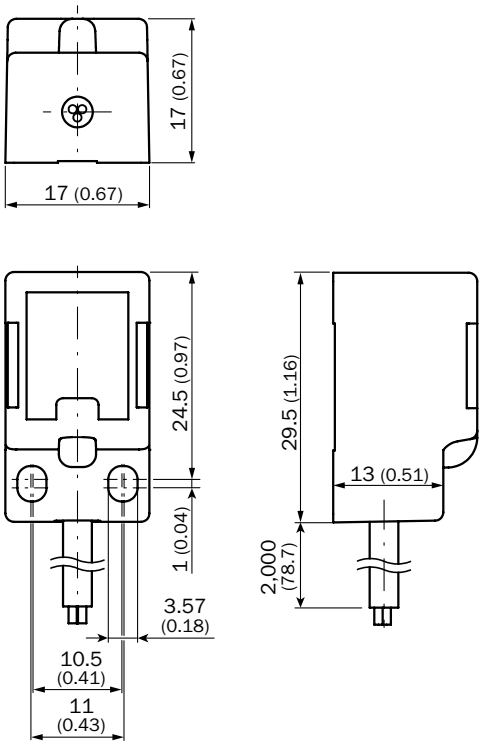
Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Typ. 0.7
Aluminum (Al)	Typ. 0.43
Copper (Cu)	Typ. 0.3
Brass (Br)	Typ. 0.4

Ordering information

Other models ➜ www.mysick.com/en/IQE17

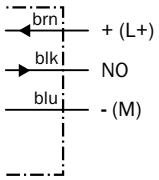
Output function	Output type	Connection diagram	Model name	Part no.
NO	PNP	Cd-001	IQE17-05NPSKW2S	1069411
	NPN	Cd-001	IQE17-05NNSKW2S	1072414
NC	PNP	Cd-003	IQE17-05NPOKW2S	1072413
	NPN	Cd-003	IQE17-05NNOKW2S	1072415

Dimensional drawing (Dimensions in mm (inch))

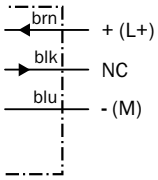


Connection diagram

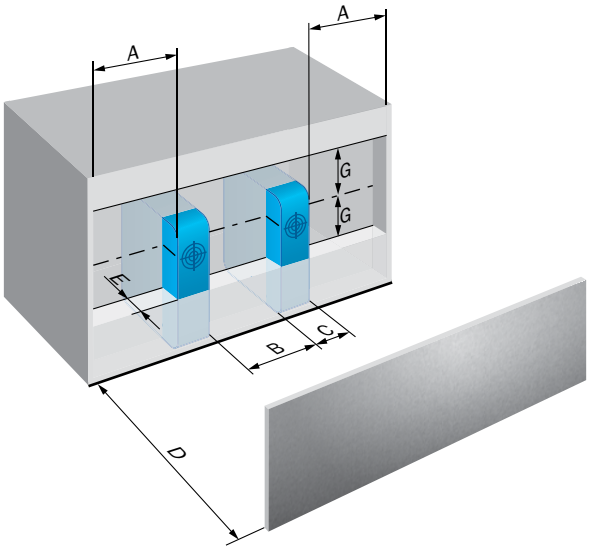
Cd-001

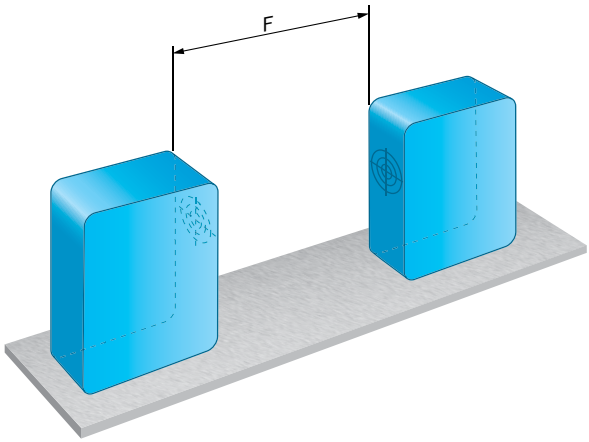


Cd-003



Installation note





	Installation	Sensing range Sn	A	B	C	D	E	F	G
IQE17	Non-flush	5 mm	17 mm	34 mm	17 mm	15 mm	10 mm	40 mm	25.5 mm

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Recommended accessories

Plug connectors and cables

Female connectors (ready to assemble)

- **Connection type head B:** -
- **Enclosure rating:** IP 67

Figure	Connection type head A	Locking nut material	Connector material	Model name	Part no.
	Female connector, M12, 4-pin, straight	CuZn	PA	DOS-1204-G	6007302
	Female connector, M12, 4-pin, angled	CuZn	PBT	DOS-1204-W	6007303

Male connectors (ready to assemble)

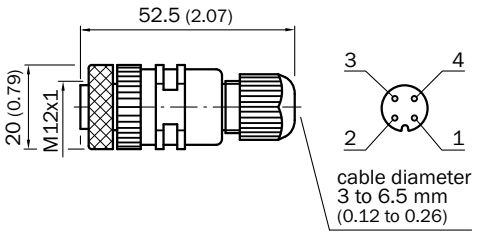
- **Connection type head B:** -
- **Enclosure rating:** IP 67

Figure	Connection type head A	Locking nut material	Connector material	Model name	Part no.
	Male connector, M12, 4-pin, straight	CuZn	PA	STE-1204-G	6009932
	Male connector, M12, 4-pin, angled	CuZn	PBT	STE-1204-W	6022084

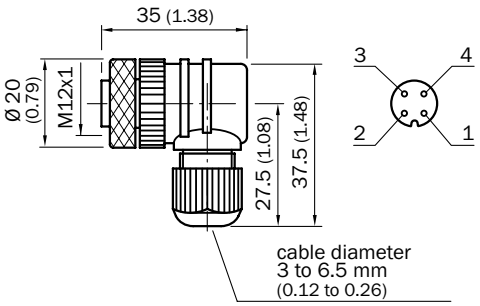
Dimensional drawings for accessories

Female connectors (ready to assemble)

DOS-1204-G

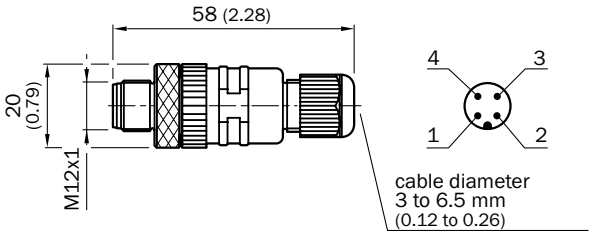


DOS-1204-W

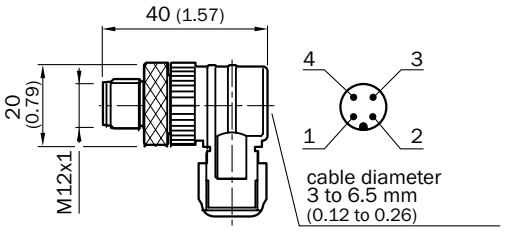


Male connectors (ready to assemble)

STE-1204-G



STE-1204-W



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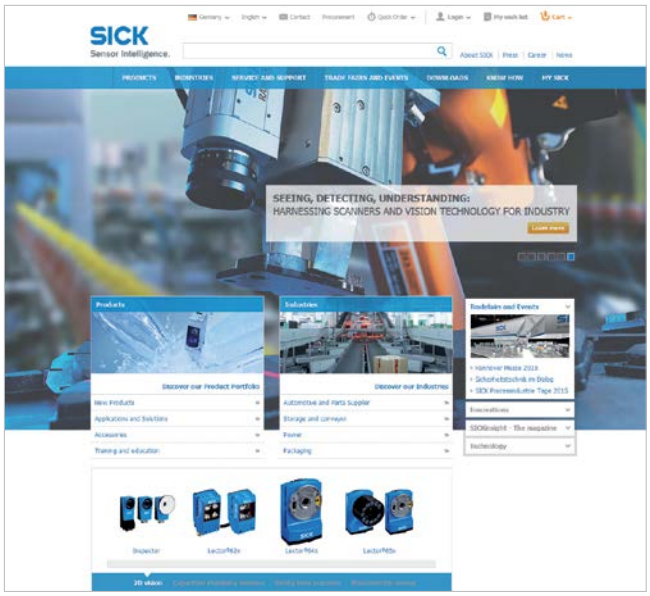

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Safe and professional

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Safe and regularly inspected

Upgrade and retrofits
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Training and education
Practical, focused and professional

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SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With almost 7,000 employees and over 50 subsidiaries and equity investments as well as numerous representative offices worldwide, we are always close to our customers. 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 various 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.

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