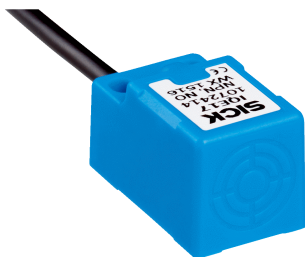


# IQE17-05NNSKW2S

IQE

INDUCTIVE PROXIMITY SENSORS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	Part no.
IQE17-05NNSKW2S	1072414

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



## Detailed technical data

### Features

<b>Housing</b>	Rectangular housing
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<b>Dimensions (W x H x D)</b>	17 mm x 17 mm x 29.5 mm
<b>Sensing range <math>S_n</math></b>	5 mm
<b>Safe sensing range <math>S_a</math></b>	4.05 mm
<b>Installation type</b>	Non-flush
<b>Switching frequency</b>	1,000 Hz
<b>Connection type</b>	Cable, 3-wire, 2 m
<b>Switching output</b>	NPN
<b>Output function</b>	NO
<b>Electrical wiring</b>	DC 3-wire
<b>Enclosure rating</b>	IP67 <sup>1)</sup>

<sup>1)</sup> According to EN 60529.

### Mechanics/electronics

<b>Supply voltage</b>	10 V DC ... 30 V DC
<b>Ripple</b>	≤ 10 %
<b>Voltage drop</b>	≤ 2 V
<b>Time delay before availability</b>	≤ 100 ms
<b>Hysteresis</b>	5 % ... 15 %
<b>Reproducibility</b>	≤ 2 %
<b>Temperature drift (of <math>S_n</math>)</b>	± 10 %
<b>EMC</b>	According to EN 60947-5-2
<b>Continuous current <math>I_a</math></b>	≤ 200 mA
<b>No load current</b>	10 mA
<b>Cable material</b>	PVC
<b>Short-circuit protection</b>	✓
<b>Reverse polarity protection</b>	✓
<b>Power-up pulse protection</b>	✓

<b>Ambient operating temperature</b>	-25 °C ... +75 °C
<b>Housing material</b>	Plastic
<b>Tightening torque, max.</b>	0.9 Nm
<b>UL File No.</b>	E348498

#### Safety-related parameters

<b>MTTF<sub>D</sub></b>	1,862 years
<b>DC<sub>avg</sub></b>	0 %
<b>T<sub>M</sub> (mission time)</b>	20 years

#### Reduction factors

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

#### Installation note

<b>Remark</b>	Associated graphic see "Installation"
<b>A</b>	17 mm
<b>B</b>	34 mm
<b>C</b>	17 mm
<b>D</b>	15 mm
<b>E</b>	10 mm
<b>F</b>	40 mm
<b>G</b>	25.5 mm

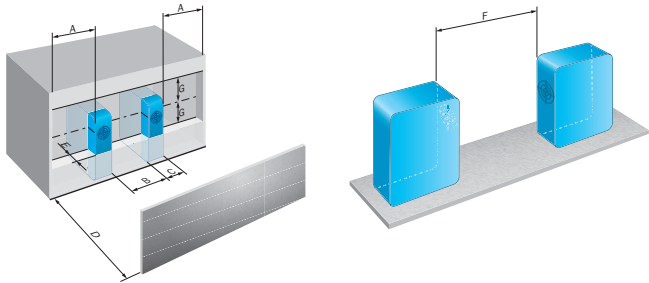
#### Classifications

<b>eCl@ss 5.0</b>	27270101
<b>eCl@ss 5.1.4</b>	27270101
<b>eCl@ss 6.0</b>	27270101
<b>eCl@ss 6.2</b>	27270101
<b>eCl@ss 7.0</b>	27270101
<b>eCl@ss 8.0</b>	27270101
<b>eCl@ss 8.1</b>	27270101
<b>eCl@ss 9.0</b>	27270101
<b>eCl@ss 10.0</b>	27270101
<b>eCl@ss 11.0</b>	27270101
<b>eCl@ss 12.0</b>	27274001
<b>ETIM 5.0</b>	EC002714
<b>ETIM 6.0</b>	EC002714
<b>ETIM 7.0</b>	EC002714
<b>ETIM 8.0</b>	EC002714

UNSPSC 16.0901

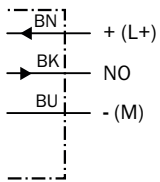
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Installation note

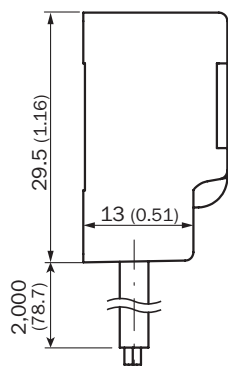
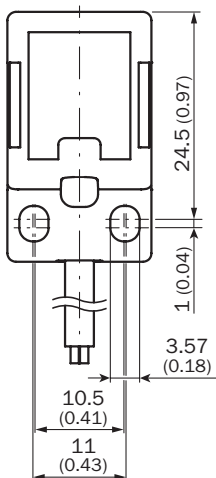
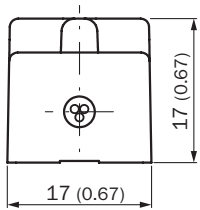


Connection diagram

Cd-001







Dimensional drawing (Dimensions in mm (inch))



**Recommended accessories**

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

	<b>Brief description</b>	<b>Type</b>	<b>Part no.</b>
Plug connectors and cables			
	Head A: female connector, M12, 4-pin, straight Cable: unshielded	DOS-1204-G	6007302
	Head A: female connector, M12, 4-pin, angled Cable: unshielded	DOS-1204-W	6007303
	Head A: male connector, M12, 4-pin, straight Cable: unshielded	STE-1204-G	6009932
	Head A: male connector, M12, 4-pin, angled Cable: unshielded	STE-1204-W	6022084

## 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)