IQE17-05NNOKW3S

IQE

INDUCTIVE PROXIMITY SENSORS

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Sensor Intelligence.

IQE17-05NNOKW3S | IQE

INDUCTIVE PROXIMITY SENSORS
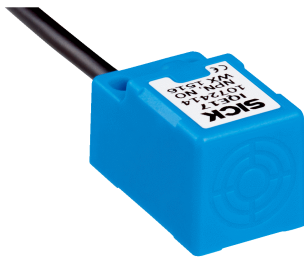
Ordering information

Type	Part no.
IQE17-05NNOKW3S	1084126

Other models and accessories ➜ www.sick.com/IQE

Detailed technical data

Features

Housing	Rectangular housing
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Dimensions (W x H x D)	17 mm x 17 mm x 29.5 mm
Sensing range S_n	5 mm
Safe sensing range S_a	4.05 mm
Installation type	Non-flush
Switching frequency	1,000 Hz
Connection type	Cable, 3-wire, 3 m
Switching output	NPN
Output function	NC
Electrical wiring	DC 3-wire
Enclosure rating	IP67 [1]

[1] According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 10 %
Voltage drop	≤ 2 V
Time delay before availability	≤ 100 ms
Hysteresis	5 % ... 15 %
Reproducibility	≤ 2 %
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 200 mA
No load current	10 mA
Cable material	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
UL File No.	E348498

Safety-related parameters

$MTTF_D$	1,862 years
DC_{avg}	0 %
T_M (mission time)	20 years

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

Installation note

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

Classifications

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

UNSPSC 16.0901	39122230

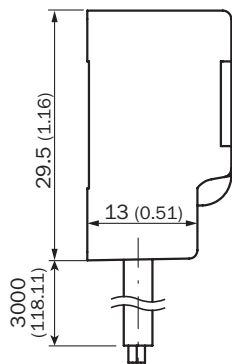## Installation note
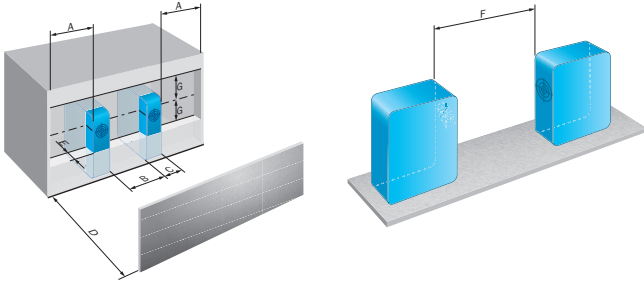
Connection diagram

Cd-003

BN + (L+)

BK NC

BU - (M)
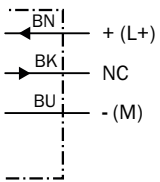
Dimensional drawing (Dimensions in mm (inch))

17 (0.67)

17 (0.67)

24.5 (0.97)

29.5 (1.16)

1 (0.04)

13 (0.51)

3000 (118.11)

3.57 (0.18)

10.5 (0.41)

11 (0.43)
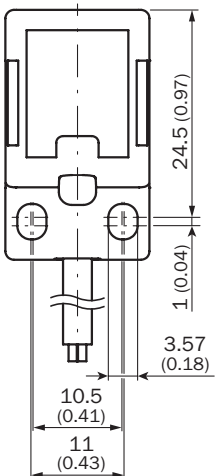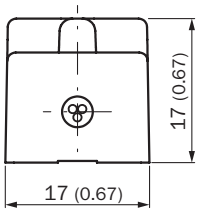
Recommended accessories

Other models and accessories ➜ www.sick.com/IQE

	Brief description	Type	Part no.
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

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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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