



IQ04-1B5N0KW2S

IQM

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
IQ04-1B5NOKW2S	6042020

Other models and accessories → www.sick.com/IQM

Illustration may differ



Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	8 mm x 16 mm x 4 mm
Sensing range S_n	1.5 mm
Safe sensing range S_a	1.215 mm
Installation type	Flush
Switching frequency	600 Hz
Connection type	Cable, 3-wire, 2 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 % ¹⁾
Voltage drop	< 1.5 V ²⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 15 %
Reproducibility	± 1 % ^{3) 4)}
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 100 mA

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

⁴⁾ Of S_r .

Cable material	PVC
Conductor size	0.09 mm ²
Cable diameter	Ø 2.5 mm
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Plastic, PA6
Sensing face material	Plastic, PA6
Tightening torque, max.	0.06 Nm

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

⁴⁾ Of S_r .

Safety-related parameters

MTTF_D	936 years
DC_{avg}	0%
T_M (mission time)	20 years

Reduction factors

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

Installation note

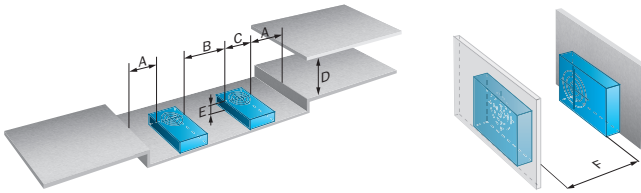
Remark	Associated graphic see "Installation"
A	0 mm
B	16 mm
C	8 mm
D	4.5 mm
E	0 mm
F	24 mm

Classifications

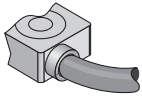
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ECLASS 5.1.4	27270101
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ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101

ECLASS 11.0	27270101
ECLASS 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

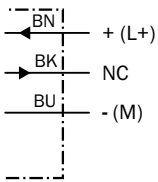


Connection type



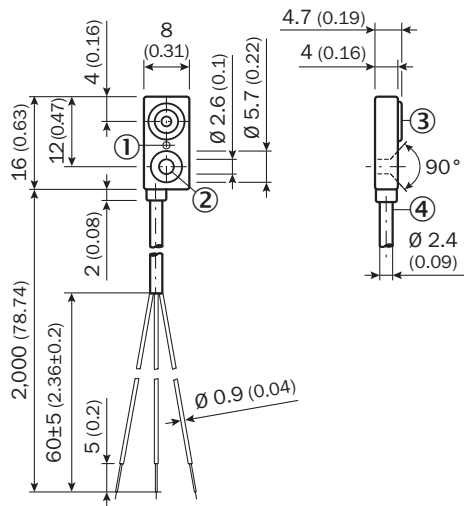
Connection diagram

Cd-003



Dimensional drawing (Dimensions in mm (inch))

IQ04



- ① Function indicator (red)
- ② Fixing hole
- ③ Sensing face
- ④ Connection

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.

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For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com



IQ04-1B5P0KW2S

IQM

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
IQ04-1B5P0KW2S	6042018

Other models and accessories → www.sick.com/IQM

Illustration may differ



Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	8 mm x 16 mm x 4 mm
Sensing range S_n	1.5 mm
Safe sensing range S_a	1.215 mm
Installation type	Flush
Switching frequency	600 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
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 % ¹⁾
Voltage drop	< 1.5 V ²⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 15 %
Reproducibility	± 1 % ^{3) 4)}
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 100 mA

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

⁴⁾ Of S_r .

Cable material	PVC
Conductor size	0.09 mm ²
Cable diameter	Ø 2.5 mm
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Plastic, PA6
Sensing face material	Plastic, PA6
Tightening torque, max.	0.06 Nm

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

⁴⁾ Of S_r .

Safety-related parameters

MTTF_D	1,328 years
DC_{avg}	0%
T_M (mission time)	20 years

Reduction factors

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

Installation note

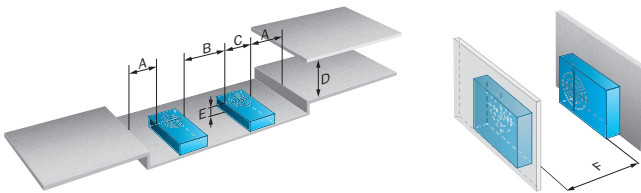
Remark	Associated graphic see "Installation"
A	0 mm
B	16 mm
C	8 mm
D	4.5 mm
E	0 mm
F	24 mm

Classifications

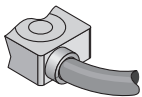
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ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
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ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101

ECLASS 11.0	27270101
ECLASS 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

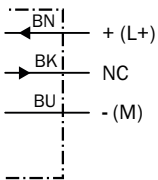


Connection type



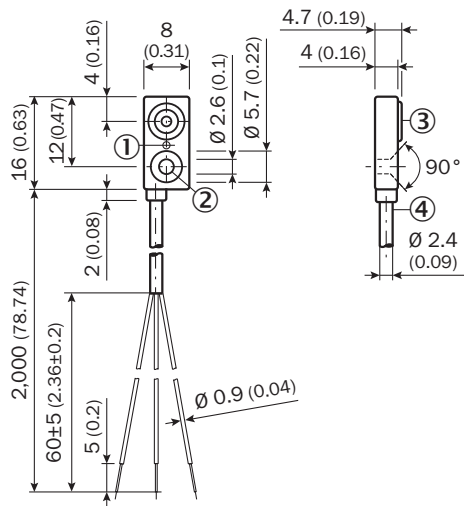
Connection diagram

Cd-003



Dimensional drawing (Dimensions in mm (inch))

IQ04



- ① Function indicator (red)
- ② Fixing hole
- ③ Sensing face
- ④ Connection

SICK AT A GLANCE

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WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com



IQ04-1B5PSKRDS

IQM

INDUCTIVE PROXIMITY SENSORS

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Ordering information

Type	Part no.
IQ04-1B5PSKRDS	6063881

Other models and accessories → www.sick.com/IQM

Illustration may differ



Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	8 mm x 16 mm x 4 mm
Sensing range S_n	1.5 mm
Safe sensing range S_a	1.215 mm
Installation type	Flush
Switching frequency	600 Hz
Connection type	Cable with connector M8, 3-pin, with knurled nuts, 0.3 m
Switching output	PNP
Output function	NO
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 % ¹⁾
Voltage drop	< 1.5 V ²⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 15 %
Reproducibility	± 1 % ^{3) 4)}
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 100 mA

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

⁴⁾ Of S_r .

Cable material	PVC
Conductor size	0.09 mm ²
Cable diameter	Ø 2.5 mm
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Plastic, PA6
Sensing face material	Plastic, PA6
Tightening torque, max.	≤ 0.06 Nm

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

⁴⁾ Of S_r .

Safety-related parameters

MTTF_D	1,328 years
DC_{avg}	0%
T_M (mission time)	20 years

Reduction factors

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

Installation note

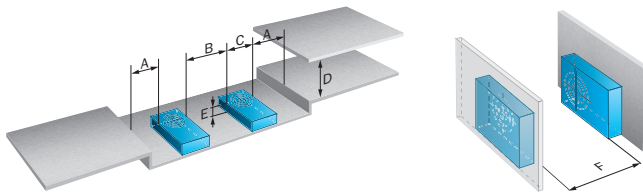
Remark	Associated graphic see "Installation"
A	0 mm
B	16 mm
C	8 mm
D	4.5 mm
E	0 mm
F	24 mm

Classifications

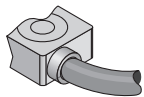
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ECLASS 10.0	27270101

ECLASS 11.0	27270101
ECLASS 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

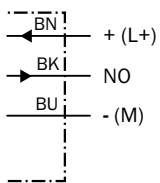


Connection type

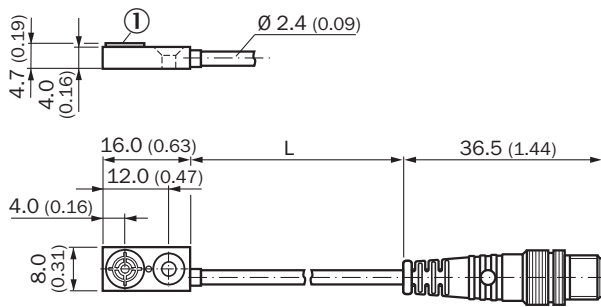


Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))



① Sensing face

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WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com



IQ04-1B5PSKW2S

IQM

INDUCTIVE PROXIMITY SENSORS

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Ordering information

Type	Part no.
IQ04-1B5PSKW2S	6042017

Other models and accessories → www.sick.com/IQM

Illustration may differ



Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	8 mm x 16 mm x 4 mm
Sensing range S_n	1.5 mm
Safe sensing range S_a	1.215 mm
Installation type	Flush
Switching frequency	600 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Output function	NO
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 % ¹⁾
Voltage drop	< 1.5 V ²⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 15 %
Reproducibility	± 1 % ^{3) 4)}
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 100 mA

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

⁴⁾ Of S_r .

Cable material	PVC
Conductor size	0.09 mm ²
Cable diameter	Ø 2.5 mm
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Plastic, PA6
Sensing face material	Plastic, PA6
Tightening torque, max.	≤ 0.06 Nm

1) Of V_S .

2) At I_a max.

3) Supply voltage U_B and constant ambient temperature T_a .

4) Of S_r .

Safety-related parameters

MTTF_D	1,328 years
DC_{avg}	0%
T_M (mission time)	20 years

Reduction factors

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

Installation note

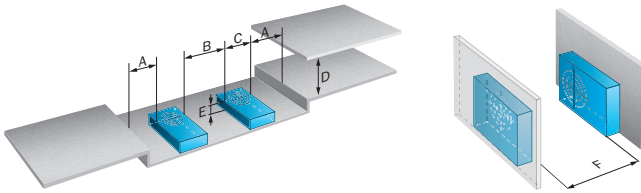
Remark	Associated graphic see "Installation"
A	0 mm
B	16 mm
C	8 mm
D	4.5 mm
E	0 mm
F	24 mm

Classifications

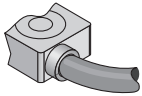
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ECLASS 12.0	27274001
ETIM 5.0	EC002714
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ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

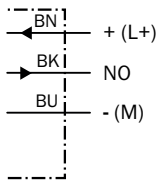


Connection type



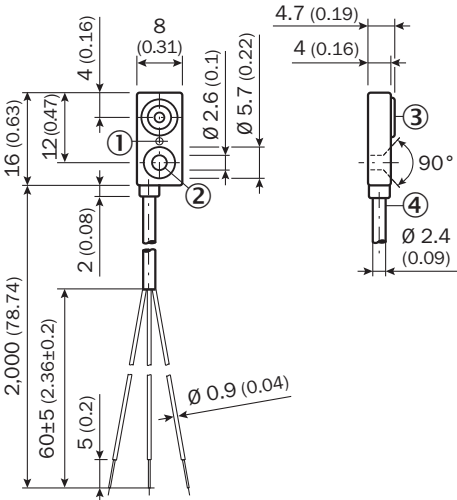
Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))

IQ04



- ① Function indicator (red)
- ② Fixing hole
- ③ Sensing face
- ④ Connection

SICK AT A GLANCE

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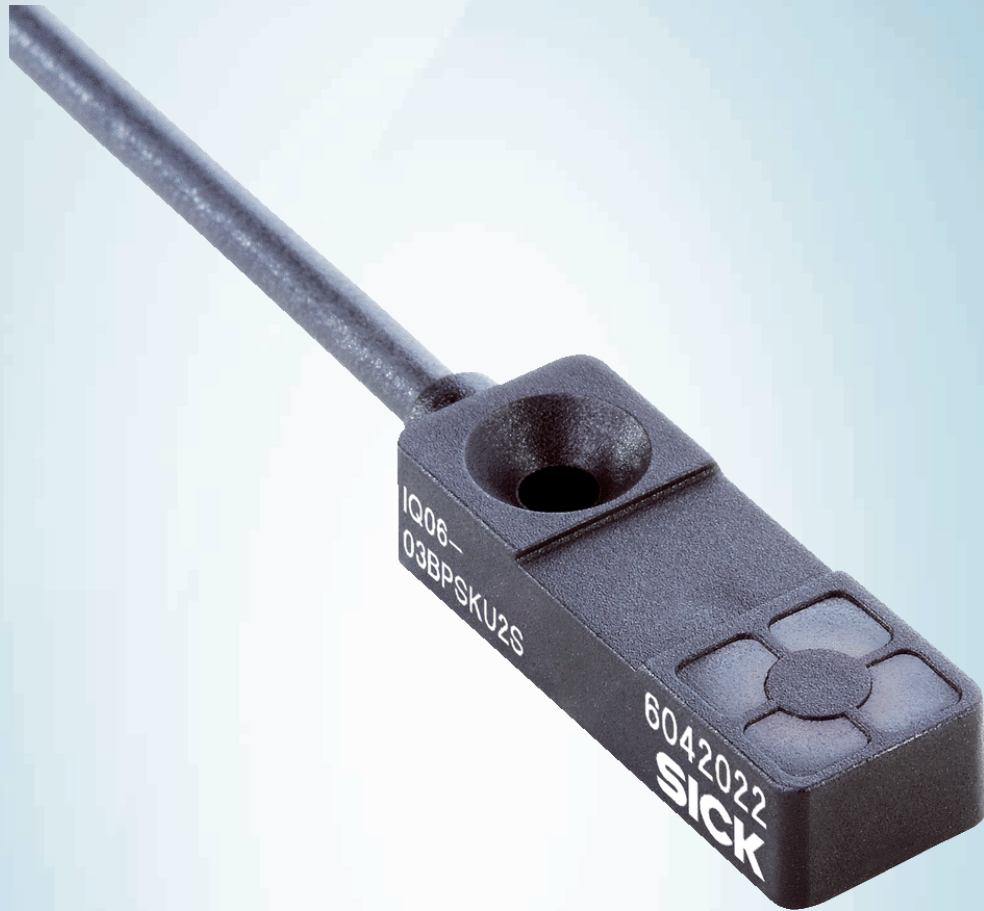
We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with 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.

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WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com



IQ06-03BN0KU2S

IQM

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
IQ06-03BN0KU2S	6042025

Other models and accessories → www.sick.com/IQM

Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	10 mm x 30 mm x 6 mm
Sensing range S_n	3 mm
Safe sensing range S_a	2.43 mm
Installation type	Flush
Switching frequency	1,000 Hz
Connection type	Cable, 3-wire, 2 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 % ¹⁾
Voltage drop	< 1.5 V ²⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 15 %
Reproducibility	± 1 % ^{3) 4)}
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 100 mA

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

⁴⁾ Of S_r .

Cable material	PUR
Conductor size	0.14 mm ²
Cable diameter	Ø 3 mm
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Plastic, PA6
Sensing face material	Plastic, PA6
Tightening torque, max.	0.6 Nm

1) Of V_S .

2) At I_a max.

3) Supply voltage U_B and constant ambient temperature T_a .

4) Of S_r .

Safety-related parameters

MTTF_D	936 years
DC_{avg}	0%
T_M (mission time)	20 years

Reduction factors

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

Installation note

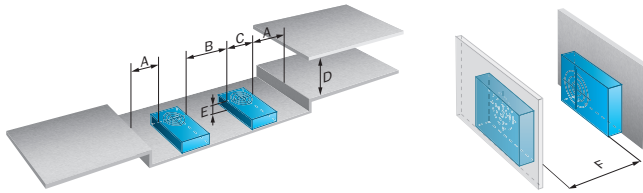
Remark	Associated graphic see "Installation"
A	1.5 mm
B	20 mm
C	10 mm
D	9 mm
E	0 mm
F	30 mm

Classifications

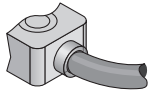
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ECLASS 12.0	27274001
ETIM 5.0	EC002714
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ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

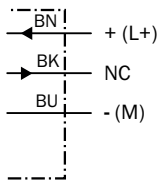


Connection type



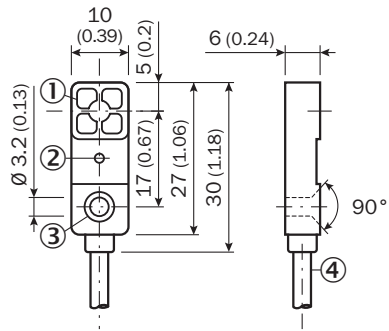
Connection diagram

Cd-003



Dimensional drawing (Dimensions in mm (inch))

IQ06



- ① Sensing face
- ② Function indicator (red)
- ③ Fixing hole
- ④ Connection

SICK AT A GLANCE

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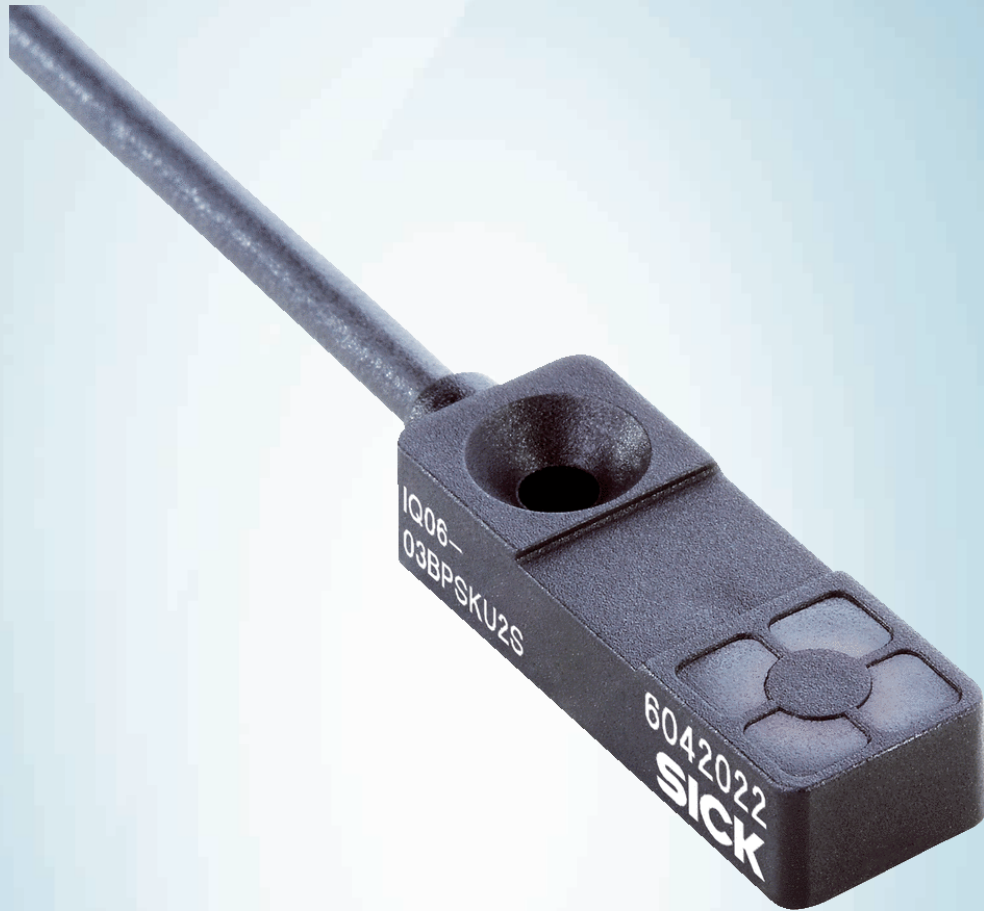
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WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com



IQ06-03BP0KU2S

IQM

INDUCTIVE PROXIMITY SENSORS

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Sensor Intelligence.



Illustration may differ



Ordering information

Type	Part no.
IQ06-03BP0KU2S	6042023

Other models and accessories → www.sick.com/IQM

Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	10 mm x 30 mm x 6 mm
Sensing range S_n	3 mm
Safe sensing range S_a	2.43 mm
Installation type	Flush
Switching frequency	1,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
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 % ¹⁾
Voltage drop	< 1.5 V ²⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 15 %
Reproducibility	± 1 % ^{3) 4)}
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 100 mA

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

⁴⁾ Of S_r .

Cable material	PUR
Conductor size	0.14 mm ²
Cable diameter	Ø 3 mm
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Plastic, PA6
Sensing face material	Plastic, PA6
Tightening torque, max.	0.6 Nm

1) Of V_S .

2) At I_a max.

3) Supply voltage U_B and constant ambient temperature T_a .

4) Of S_r .

Safety-related parameters

MTTF_D	1,328 years
DC_{avg}	0%
T_M (mission time)	20 years

Reduction factors

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

Installation note

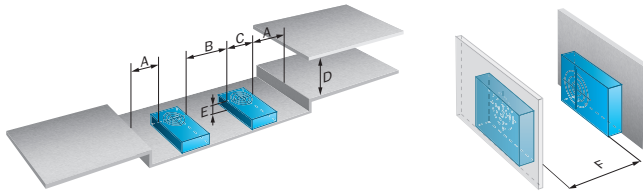
Remark	Associated graphic see "Installation"
A	1.5 mm
B	20 mm
C	10 mm
D	9 mm
E	0 mm
F	30 mm

Classifications

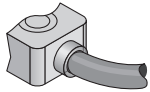
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ECLASS 5.1.4	27270101
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ECLASS 9.0	27270101
ECLASS 10.0	27270101

ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
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UNSPSC 16.0901	39122230

Installation note

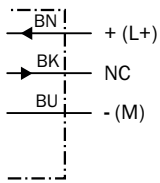


Connection type



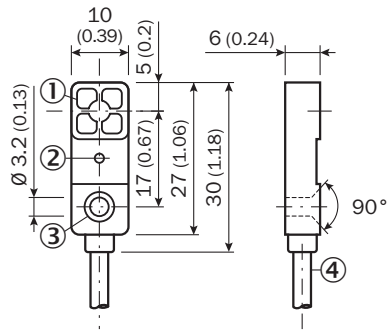
Connection diagram

Cd-003



Dimensional drawing (Dimensions in mm (inch))

IQ06



- ① Sensing face
- ② Function indicator (red)
- ③ Fixing hole
- ④ Connection

SICK AT A GLANCE

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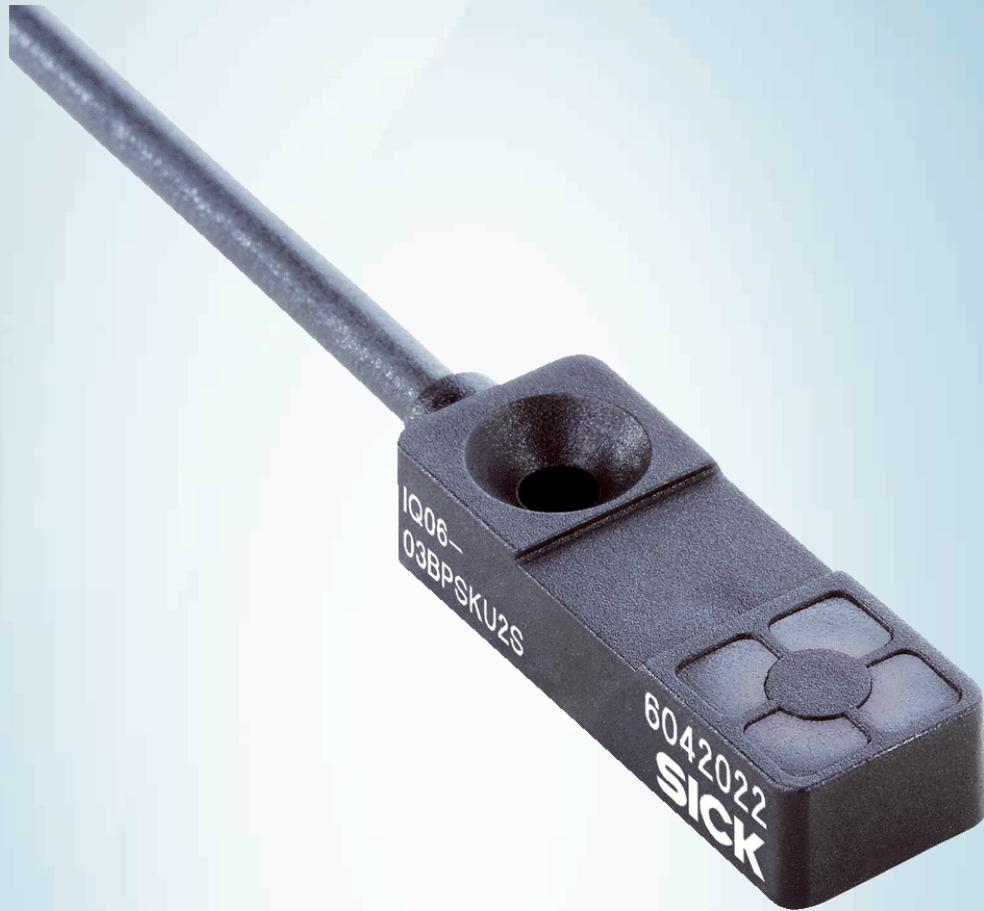
We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with 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



IQ06-03BP0KU5S

IQM

INDUCTIVE PROXIMITY SENSORS

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Illustration may differ



Ordering information

Type	Part no.
IQ06-03BP0KU5S	6067958

Other models and accessories → www.sick.com/IQM

Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	10 mm x 30 mm x 6 mm
Sensing range S_n	3 mm
Safe sensing range S_a	2.43 mm
Installation type	Flush
Switching frequency	1,000 Hz
Connection type	Cable, 3-wire, 5 m
Switching output	PNP
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 % ¹⁾
Voltage drop	< 1.5 V ²⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 15 %
Reproducibility	± 1 % ^{3) 4)}
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 100 mA

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

⁴⁾ Of S_r .

Cable material	PUR
Conductor size	0.14 mm ²
Cable diameter	Ø 3 mm
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Plastic, PA6
Sensing face material	Plastic, PA6
Tightening torque, max.	0.6 Nm

1) Of V_S.

2) At I_a max.

3) Supply voltage U_B and constant ambient temperature Ta.

4) Of S_r.

Safety-related parameters

MTTF_D	1,328 years
DC_{avg}	0%
T_M (mission time)	20 years

Reduction factors

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

Installation note

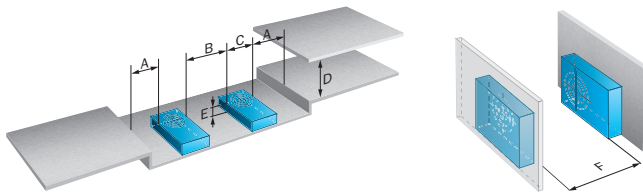
Remark	Associated graphic see "Installation"
A	1.5 mm
B	20 mm
C	10 mm
D	9 mm
E	0 mm
F	30 mm

Classifications

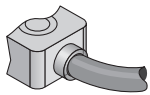
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ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

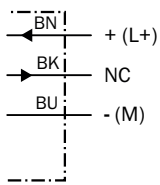


Connection type



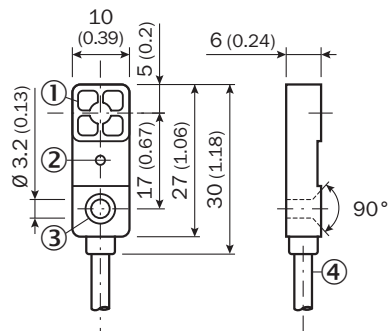
Connection diagram

Cd-003



Dimensional drawing (Dimensions in mm (inch))

IQ06



- ① Sensing face
- ② Function indicator (red)
- ③ Fixing hole
- ④ Connection

SICK AT A GLANCE

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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



IQ06-03BPSKU2S

IQM

INDUCTIVE PROXIMITY SENSORS

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Illustration may differ



Ordering information

Type	Part no.
IQ06-03BPSKU2S	6042022

Other models and accessories → www.sick.com/IQM

Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	10 mm x 30 mm x 6 mm
Sensing range S_n	3 mm
Safe sensing range S_a	2.43 mm
Installation type	Flush
Switching frequency	1,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Output function	NO
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 % ¹⁾
Voltage drop	< 1.5 V ²⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 15 %
Reproducibility	± 1 % ^{3) 4)}
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 100 mA

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

⁴⁾ Of S_r .

Cable material	PUR
Conductor size	0.14 mm ²
Cable diameter	Ø 3 mm
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Plastic, PA6
Sensing face material	Plastic, PA6
Tightening torque, max.	0.6 Nm

1) Of V_S .

2) At I_a max.

3) Supply voltage U_B and constant ambient temperature T_a .

4) Of S_r .

Safety-related parameters

MTTF_D	1,328 years
DC_{avg}	0%
T_M (mission time)	20 years

Reduction factors

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

Installation note

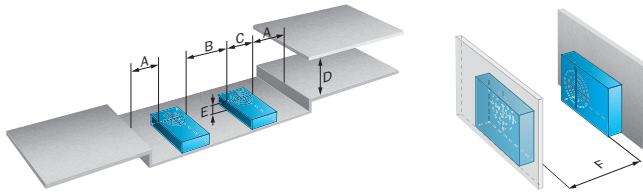
Remark	Associated graphic see "Installation"
A	1.5 mm
B	20 mm
C	10 mm
D	9 mm
E	0 mm
F	30 mm

Classifications

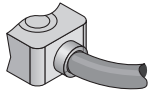
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ECLASS 5.1.4	27270101
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ECLASS 9.0	27270101
ECLASS 10.0	27270101

ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
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ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

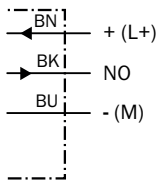


Connection type



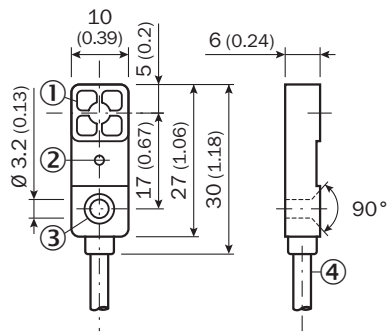
Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))

IQ06



- ① Sensing face
- ② Function indicator (red)
- ③ Fixing hole
- ④ Connection

SICK AT A GLANCE

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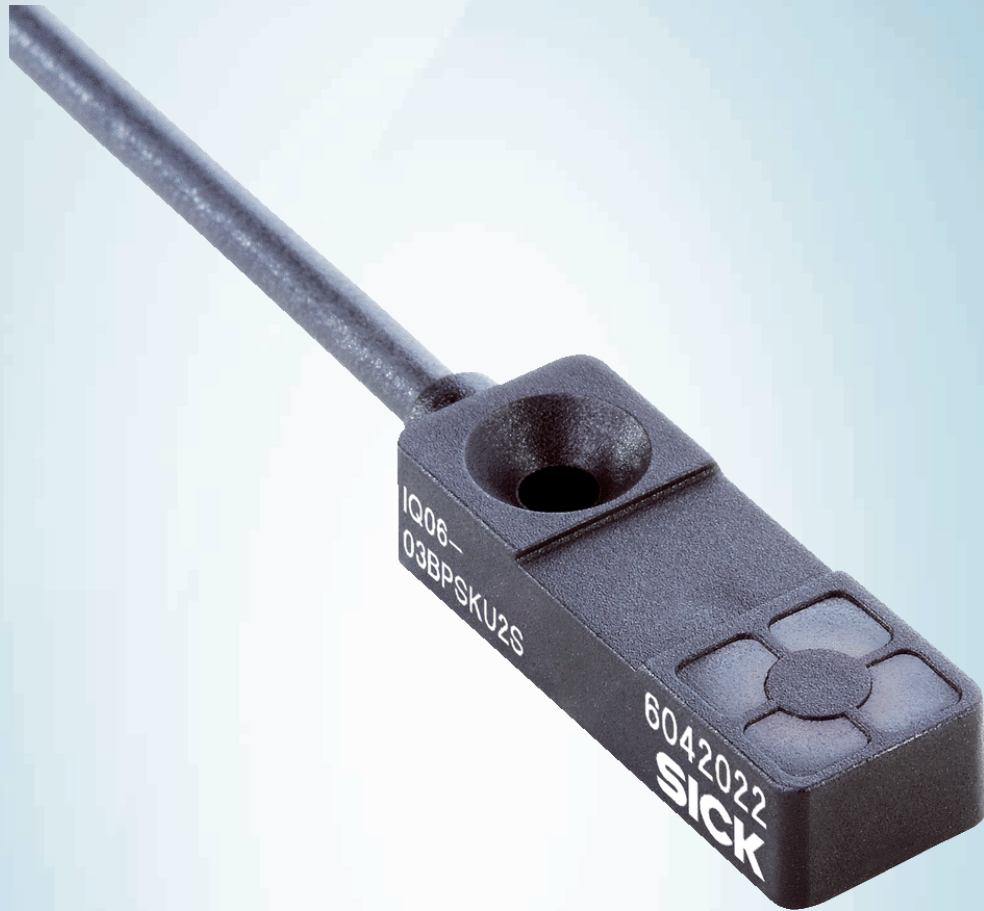
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WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com



IQ06-03BPSKU3S

IQM

INDUCTIVE PROXIMITY SENSORS

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Illustration may differ



Ordering information

Type	Part no.
IQ06-03BPSKU3S	6048848

Other models and accessories → www.sick.com/IQM

Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	10 mm x 30 mm x 6 mm
Sensing range S_n	3 mm
Installation type	Flush
Switching frequency	1,000 Hz
Connection type	Cable, 3-wire, 3 m
Switching output	PNP
Output function	NO
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 % ¹⁾
Voltage drop	< 1.5 V ²⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 15 %
Reproducibility	± 1 % ^{3) 4)}
Temperature drift (of S_n)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 100 mA
Cable material	PUR
Conductor size	0.14 mm ²

¹⁾ Of V_S .

²⁾ At I_a max.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

⁴⁾ Of S_r .

Cable diameter	Ø 3 mm
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Plastic, PA6
Sensing face material	Plastic, PA6
Tightening torque, max.	0.6 Nm

1) Of V_S .

2) At I_a max.

3) Supply voltage U_B and constant ambient temperature T_a .

4) Of S_r .

Safety-related parameters

MTTF_D	1,328 years
DC_{avg}	0%
T_M (mission time)	20 years

Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.7
Aluminum (Al)	Approx. 0.4
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Installation note

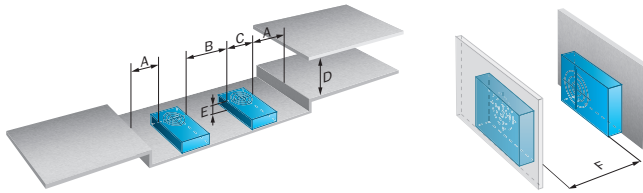
Remark	Associated graphic see "Installation"
A	1.5 mm
B	20 mm
C	10 mm
D	9 mm
E	0 mm
F	30 mm

Classifications

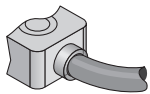
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ECLASS 8.1	27270101
ECLASS 9.0	27270101
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ECLASS 11.0	27270101
ECLASS 12.0	27274001

ETIM 5.0	EC002714
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ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

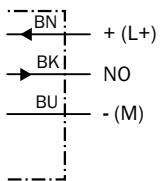


Connection type



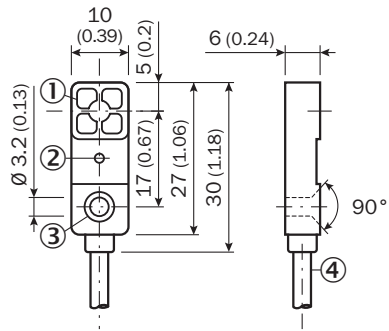
Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))

IQ06



- ① Sensing face
- ② Function indicator (red)
- ③ Fixing hole
- ④ Connection

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