IQ25-05BPSDU2S

IQV

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.

IQ25-05BPSDU2S | IQV

INDUCTIVE PROXIMITY SENSORS

Ordering information

Type	part no.
IQ25-05BPSDU2S	6042046

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

Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	25 mm x 50 mm x 10 mm
Sensing range S_n	5 mm
Safe sensing range S_a	4.05 mm
Installation type	Flush
Switching frequency	500 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Switching output detail	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	≤ 15 % [1]
Voltage drop	≤ 2.5 V [2]
Time delay before availability	≤ 50 ms
Hysteresis	1 % ... 15 %
Reproducibility	± 5 % [3] [4]
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2

[1] Of V_S.

[2] At I_a max.

[3] Supply voltage U_B and constant ambient temperature Ta.

[4] Of Sr.

Continuous current I_a	≤ 200 mA
Cable material	PUR
Conductor size	0.34 mm²
Cable diameter	Ø 4.6 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	Aluminum, GD Zn
Sensing face material	Plastic, PBT

[1] Of V_S.

[2] At I_a max.

[3] Supply voltage U_B and constant ambient temperature Ta.

[4] Of Sr.

Safety-related parameters

$MTTF_D$	1,488 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	25 mm
C	25 mm
D	15 mm
E	0 mm
F	75 mm

Certificates

EU declaration of conformity	✓
China RoHS	✓
cULus certificate	✓

Classifications

ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101

| ECLASS 7.0	27270101
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
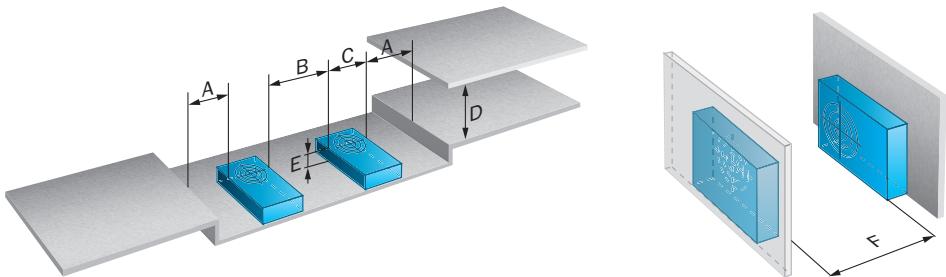
Connection type
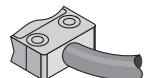
Connection diagram Cd-001
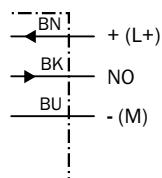
Dimensional drawing IQ25

Dimensions in mm (inch)

① Sensing face
② Function signal indicator (green)
③ fixing hole
④ Connection
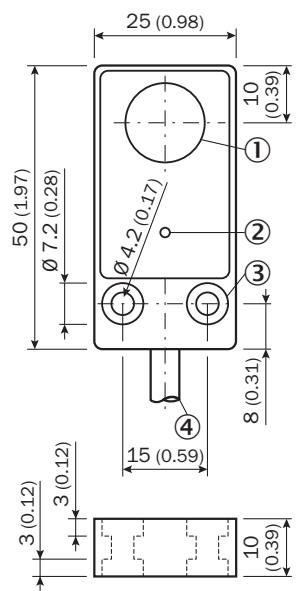
SICK AT A GLANCE

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.

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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