



IHM06-1B5POVW2G

IMM

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
IHM06-1B5POVW2G	1104484

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

Illustration may differ



Detailed technical data

Features

Housing	Cylindrical
Housing	Extremely short model
Diameter	Ø 6.5 mm
Sensing range S_n	1.5 mm
Safe sensing range S_a	1.215 mm
Installation type	Flush
Switching frequency	5,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Switching output detail	PNP
Output function	NC
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾
Special features	Visual adjustment indicator

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 20 % ¹⁾
Voltage drop	≤ 2 V ²⁾
Time delay before availability	≤ 50 ms
Hysteresis	1 % ... 10 %

¹⁾ Of V_S .

²⁾ With $I_a = 200$ mA.

³⁾ Supply voltage U_B and constant ambient temperature T_a .

Reproducibility	≤ 2 % ³⁾
Temperature drift (of S_r)	≤ 10 %
EMC	EN 60947-5-2
Continuous current I_a	≤ 200 mA
Cable material	PVC
Conductor size	0.14 mm ²
Cable diameter	Ø 2.9 mm
Short-circuit protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Stainless steel V2A, DIN 1.4305 / AISI 303
Sensing face material	Plastic, LCP
Housing length	16 mm
UL File No.	NRKH.E348498

¹⁾ Of V_S.

²⁾ With I_a = 200 mA.

³⁾ Supply voltage U_B and constant ambient temperature T_a.

Safety-related parameters

MTTF_D	1,592 years
DC_{avg}	0 %

Reduction factors

Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.75
Aluminum (Al)	Approx. 0.5
Copper (Cu)	Approx. 0.43
Brass (Br)	Approx. 0.54

Installation note

Remark	Associated graphic see "Installation"
B	6 mm
C	6.5 mm
D	4.5 mm
F	12 mm

Certificates

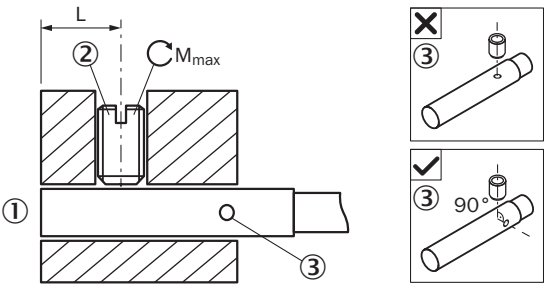
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓

IO-Link	✓
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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 Fixing with setscrew



- ① Sensing face
② Recommended setscrew: M3, flat point
③ Display LED

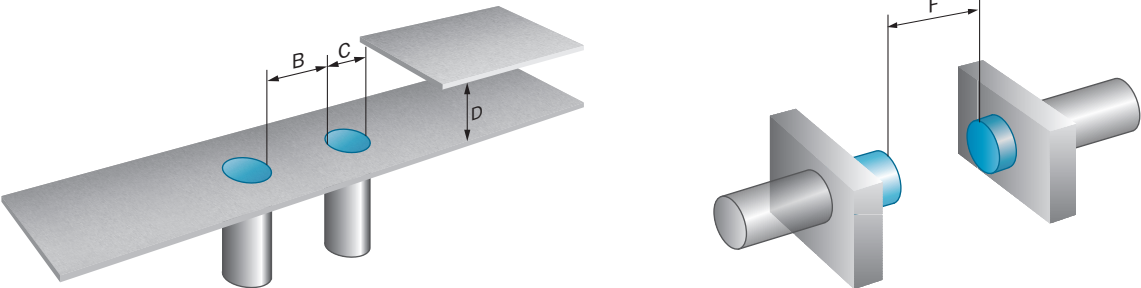
Sensor type	Mounting area (L)	Max. tightening torque (M_{max})
IHM06-*****G	6 mm ... 11 mm	≤ 0.4 Nm
IHM06-*****TOG	6 mm ... 21 mm	≤ 0.4 Nm
IHM06-*****K	6 mm ... 21 mm	≤ 0.4 Nm
IHM06-*****TOK	6 mm ... 32 mm	≤ 0.4 Nm
IHM06-*****S	6 mm ... 32 mm	≤ 0.4 Nm
IHM06-*****TOS	6 mm ... 42 mm	≤ 0.4 Nm

Installation note Mounting using BEF-KH-M06 bracket

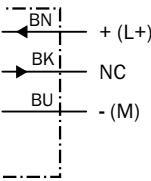


Sensor type	Mounting adapter	Overrun (P)	Max. tightening torque (M _{max})
IHM06-1B5***** IHM06-02B***** IHM06-03B*****	BEF-KH-M06, part no. 2101067	≥ 0 mm	≤ 0.6 Nm

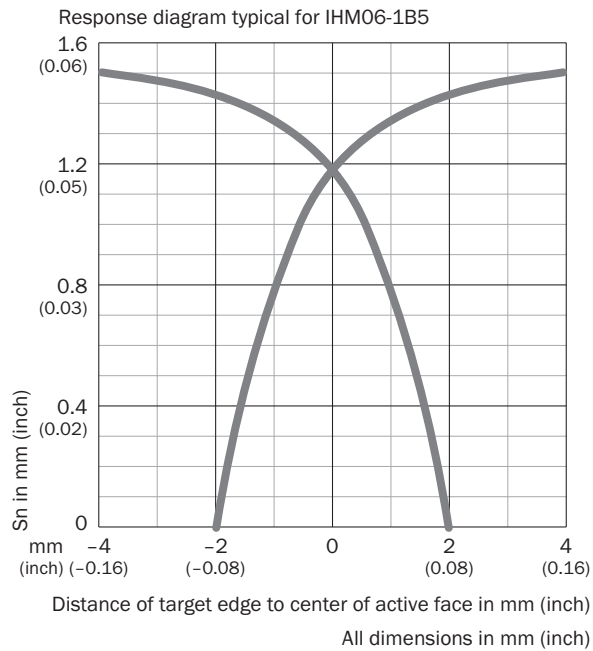
Installation note Flush installation



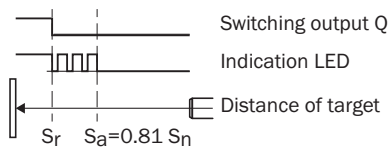
Connection diagram Cd-003



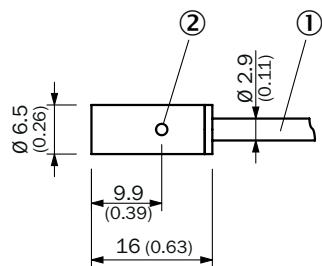
Response diagram



Functional principle Installation aid



Dimensional drawing IHM06, extremely short variant, flush, cable



Recommended accessories

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

	Brief description	Type	part no.
Mounting systems			
	Material: Plastic Details: Plastic (PA6) Items supplied: Without mounting hardware Usable for: Round sensors with 6.5 mm housing diameter without fixed stop	BEF-KH-M06	2101067
connectors and cables			
	Number of slots: 4 Slot connection type: M8, 3-pin, A-coded, female connector Items supplied: 5 x labeling plates Description: Unshielded	Y8A34A2-C2A8000XXX	2115733
	Number of slots: 4 Slot connection type: M8, 3-pin, A-coded, female connector Items supplied: 5 x labeling plates Cable: 5 m, 6-wire, PUR, halogen-free Description: Unshielded Application: Drag chain operation	Y8A34A2-LXXXUAA050	2115727
	Number of slots: 6 Slot connection type: M8, 3-pin, A-coded, female connector Items supplied: 5 x labeling plates Description: Unshielded	Y8A36A2-C2A8000XXX	2115734
	Number of slots: 6 Slot connection type: M8, 3-pin, A-coded, female connector Items supplied: 5 x labeling plates Cable: 5 m, 8-wire, PUR, halogen-free Description: Unshielded Application: Drag chain operation	Y8A36A2-LXXXUBA050	2115728

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:

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