

IHM06-02BNOVW2S

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IHM06-02BN0VW2S	1104492

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

Illustration may differ



Detailed technical data

Features

Housing	Cylindrical	
Housing	Standard design Ø 6.5 mm	
Diameter		
Sensing range S _n	2 mm	
Safe sensing range S _a	1.62 mm	
Installation type	Flush	
Switching frequency	5,000 Hz	
Connection type	Cable, 3-wire, 2 m	
Switching output	NPN	
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 %
Reproducibility	≤ 2 % ³⁾
Temperature drift (of S _r)	≤ 10 %

 $^{^{1)}}$ Of V_{S} .

 $^{^{2)}}$ With Ia = 200 mA.

 $^{^{\}rm 3)}$ Supply voltage $\rm U_B$ and constant ambient temperature Ta.

EMC	EN 60947-5-2
Continuous current I _a	≤ 200 mA
Cable material	PVC
Conductor size	0.25 mm ²
Cable diameter	Ø 3.7 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	42.3 mm
UL File No.	NRKH.E348498

¹⁾ Of V_S.

Safety-related parameters

MTTF _D	1,330 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 (AI)	Approx. 0.5		
Copper (Cu)	Approx. 0.43		
Brass (Br)	Approx. 0.54		

Installation note

Remark	Associated graphic see "Installation"		
В	6 mm		
c	6.5 mm		
D	6 mm		
F	16 mm		

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

²⁾ With Ia = 200 mA.

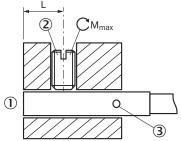
 $^{^{\}rm 3)}$ Supply voltage $\rm U_B$ and constant ambient temperature Ta.

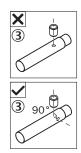
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ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

Fixing with setscrew

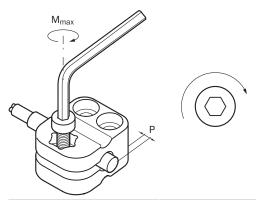




- ① Sensing face
- ② Recommended setscrew: M3, flat point
- ③ Display LED

Sensor type	Mounting area (L)	Max. tightening torque (M _{max})
IHM06-*****G	6 mm 11 mm	≤ 0.4 Nm
IHM06-****T0G	6 mm 21 mm	≤ 0.4 Nm
IHM06-*****K	6 mm 21 mm	≤ 0.4 Nm
IHM06-****T0K	6 mm 32 mm	≤ 0.4 Nm
IHM06-*****	6 mm 32 mm	≤ 0.4 Nm
IHM06-****T0S	6 mm 42 mm	≤ 0.4 Nm

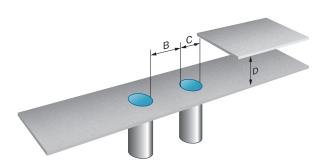
Mounting using BEF-KH-M06 bracket

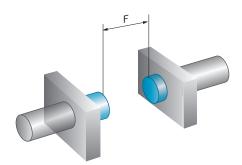


Sensor type	Mounting adapter	Overrun (P)	Max. tightening torque (M _{max})
IHM06-1B5*****	BEF-KH-M06, part no. 2101067	≥ 0 mm	≤ 0.6 Nm

Sensor type	Mounting adapter	Overrun (P)	Max. tightening torque (M _{max})
IHM06-02B***** IHM06-03B*****			

Flush installation



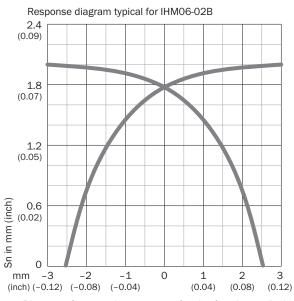


Connection diagram

Cd-003



Response diagram

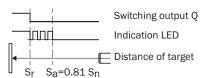


Distance of target edge to center of active face in mm (inch)

All dimensions in mm (inch)

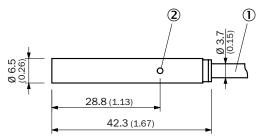
Functional principle

Installation aid



Dimensional drawing (Dimensions in mm (inch))

IHM06, standard variant, flush, cable



- ① Connection
- ② Function indicator

Recommended accessories

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

	Brief description	Туре	Part no.	
Terminal and alignment brackets				
	Plastic (PA6), without mounting hardware	BEF-KH-M06	2101067	
Others				
	 Connection type head A: 3-pin Number of slots: 4 Slot connection type: M8, 3-pin, A-coded, female connector Description: Unshielded 	Y8A34A2- C2A8000XXX	2115733	
	 Connection type head A: 3-pin Number of slots: 4 Slot connection type: M8, 3-pin, A-coded, female connector Cable: 5 m, 6-wire, PUR, halogen-free Description: Unshielded Application: Drag chain operation 	Y8A34A2- LXXXUAA050	2115727	
	 Connection type head A: 3-pin Number of slots: 6 Slot connection type: M8, 3-pin, A-coded, female connector Description: Unshielded 	Y8A36A2- C2A8000XXX	2115734	

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	Brief description	Туре	Part no.
REEL	 Connection type head A: 3-pin Number of slots: 6 Slot connection type: M8, 3-pin, A-coded, female connector Cable: 5 m, 8-wire, PUR, halogen-free Description: Unshielded Application: Drag chain operation 	Y8A36A2- LXXXUBA050	2115728
	 Connection type head A: Male connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0803-G	6037322
e de	 Connection type head A: Male connector, M8, 3-pin, angled, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0803-WSK	6053170

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