

IHM06-02BNOVW2K

IMM

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IHM06-02BN0VW2K	1104488

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

Illustration may differ



Detailed technical data

Features

Housing	Cylindrical smooth housing
Housing	Short-body Short-body
Diameter	Ø 6.5 mm
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	✓
Reverse polarity 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	31.3 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

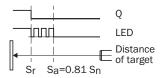
²⁾ With Ia = 200 mA.

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

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

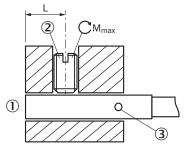
Adjustments

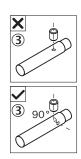
Installation aid



Installation note

Fixing with setscrew

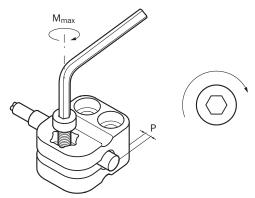




- ① Sensing face
- ② Recommended setscrew: M3, flat point③ Display LED

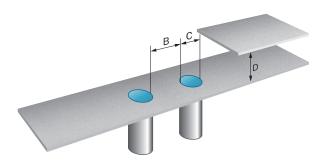
Sensor type	Mounting area (L)	Max. tightening torque (M _{max})
IHM06-*****G	6 mm 11 mm	≤ 0.4 Nm
IHM06-****T0G	6 mm 21 mm	≤ 0.4 Nm
IHM06-*****K	6 mm 21 mm	≤ 0.4 Nm
IHM06-****T0K	6 mm 32 mm	≤ 0.4 Nm
IHM06-*****	6 mm 32 mm	≤ 0.4 Nm
IHM06-****T0S	6 mm 42 mm	≤ 0.4 Nm

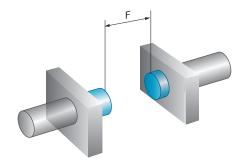
Mounting using BEF-KH-M06 bracket



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

Flush installation



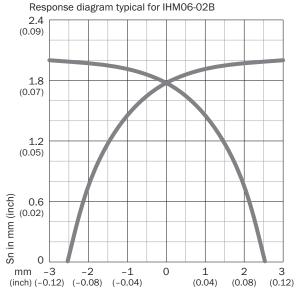


Connection diagram

Cd-003



Response diagram

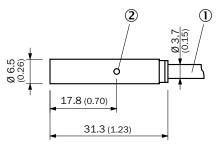


Distance of target edge to center of active face in mm (inch)

All dimensions in mm (inch)

Dimensional drawing (Dimensions in mm (inch))

IHM06, short variant, flush, cable



- ① Connection
- ② Function indicator

Recommended accessories

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

	Brief description	Туре	Part no.
Plug connecto	ors and cables		
	 Connection type head A: Male connector, M8, 3-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0803-G	6037322

	Brief description	Туре	Part no.
e de les	 Connection type head A: Male connector, M8, 3-pin, angled Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	STE-0803-WSK	6053170
Terminal and alignment brackets			
	Plastic (PA6), without mounting hardware	BEF-KH-M06	2101067
Others			
	 Connection type head A: 3-pin Slot connection type: M8, 3-pin, A-coded, female connector Description: Unshielded Items supplied: 5 x labeling plates 	Y8A34A2- C2A8000XXX	2115733
THE STATE OF THE S		Y8A36A2- C2A8000XXX	2115734
E	 Connection type head A: 3-pin Slot connection type: M8, 3-pin, A-coded, female connector Cable: 5 m, 6-wire, PUR, halogen-free Description: Unshielded Application: Drag chain operation Items supplied: 5 x labeling plates 	Y8A34A2- LXXXUAA050	2115727
Q	 Connection type head A: 3-pin Slot connection type: M8, 3-pin, A-coded, female connector Cable: 5 m, 8-wire, PUR, halogen-free Description: Unshielded Application: Drag chain operation Items supplied: 5 x labeling plates 	Y8A36A2- LXXXUBA050	2115728

SICK AT A GLANCE

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