

IHM06-02BNSVW2S

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	part no.
IHM06-02BNSVW2S	1104493

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

Illustration may differ



Detailed technical data

Features

1 Catalos	
Housing	Cylindrical
Housing	Standard design
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
Switching output detail	NPN
Output function	NO
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	\leq 2 V $^{2)}$
Time delay before availability	≤ 50 ms
Hysteresis	1 % 10 %

 $^{^{1)}}$ Of V_S .

²⁾ With Ia = 200 mA.

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

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	0.25 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
С	6.5 mm
D	6 mm
F	16 mm

Certificates

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

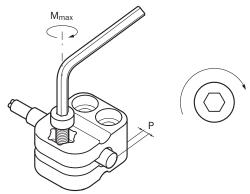
²⁾ With Ia = 200 mA.

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

INDUCTIVE PROXIMITY SENSORS

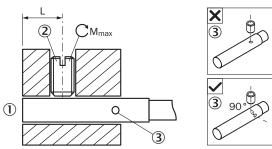
IO-Link certificate	✓
Classifications	
ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note 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

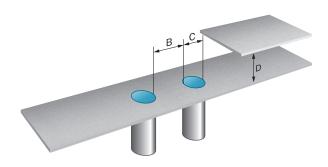
Installation note Fixing with setscrew

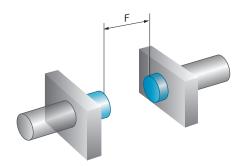


- ① Sensing face
- ② Recommended setscrew: M3, flat point
- ③ Display LED

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-*****	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-****TOS	6 mm 42 mm	≤ 0.4 Nm

Installation note Flush installation

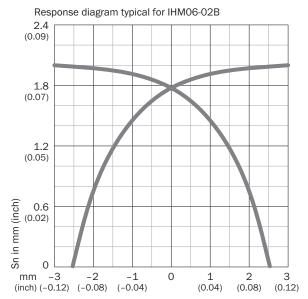




Connection diagram Cd-001



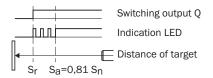
Response diagram



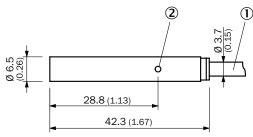
Distance of target edge to center of active face in mm (inch)

All dimensions in mm (inch)

Functional principle Installation aid



Dimensional drawing IHM06, standard variant, flush, cable



Dimensions in mm (inch)

- ① Connection
- 2 function indicator

Recommended accessories

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

	Brief description	Туре	part no.		
Mounting sys	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 a	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		
P	 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		
PIE	 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

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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."

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