

IMM04-01BNSVU2K

IMM

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IMM04-01BNSVU2K	1103233

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

Illustration may differ



Detailed technical data

Features

Cylindrical thread design
Short-body
M4 x 0.5
Ø 4 mm
1 mm
0.81 mm
Flush
4,200 Hz
Cable, 3-wire, 2 m
NPN
NO
DC 3-wire
IP67 ¹⁾
Visual adjustment indicator
Mounting nut, V2A stainless steel (2x) Washer, V2A stainless steel, with locking teeth (2x) Cable flag, Polymatic 50 (1 x)

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	≤ 10 ms	
Hysteresis	1 % 15 %	

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

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

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

Reproducibility	≤ 2.5 % ³⁾
Temperature drift (of S _r)	≤ 10 %
EMC	EN 60947-5-2
Continuous current I _a	≤ 100 mA
Cable material	PUR
Conductor size	0.08 mm ²
Cable diameter	Ø 2.5 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	12 mm
Thread length	10 mm
Tightening torque, max.	≤ 0.8 Nm
UL File No.	NRKH.E348498

 $^{^{1)}}$ Of $V_{\mbox{\scriptsize S}}.$

Safety-related parameters

MTTF _D	1,804 years
DC _{avg}	0 %

Reduction factors

Note	The values are reference values which may vary	
St37 steel (Fe)	1	
Stainless steel (V2A, 304)	Approx. 0.7	
Aluminum (AI)	Approx. 0.49	
Copper (Cu)	Approx. 0.4	
Brass (Br)	Approx. 0.55	

Installation note

Remark	Associated graphic see "Installation"
В	3 mm
C	4 mm
D	3 mm
F	3 mm

Classifications

eCl@ss 5.0	27270101
eCl@ss 5.1.4	27270101

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

³⁾ Supply voltage Ub and constant ambient temperature Ta.

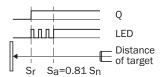
IMM04-01BNSVU2K | IMM

INDUCTIVE PROXIMITY SENSORS

eCl@ss 6.0	27270101
eCl@ss 6.2	27270101
eCl@ss 7.0	27270101
eCl@ss 8.0	27270101
eCl@ss 8.1	27270101
eCl@ss 9.0	27270101
eCl@ss 10.0	27270101
eCl@ss 11.0	27270101
eCl@ss 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

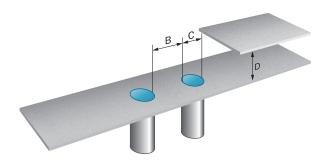
Adjustments

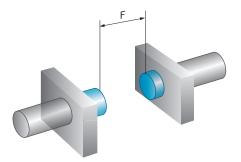
Installation aid



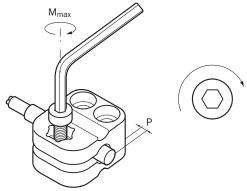
Installation note

Flush installation





Mounting using BEF-KH-M0 bracket



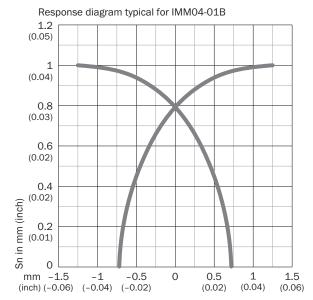
Sensor type	Mounting adapter	Overrun (P)	Max. tightening torque (M _{max})
IHM03	BEF-KH-M03, part no. 2101064	0 mm 2 mm / ≥ 2 mm	≤ 0.4 Nm / ≤ 0.6 Nm
IHM04	BEF-KH-M04, part no. 2101065	0 mm 2 mm / ≥ 2 mm	≤ 0.4 Nm / ≤ 0.6 Nm
IMM04	BEF-KH-M04, part no. 2101065	≥ 0 mm	≤ 0.6 Nm
IMM05	BEF-KH-M05, part no. 2101066	≥ 0 mm	≤ 0.6 Nm
IHM06 flush	BEF-KH-M06, part no. 2101067	≥ 0 mm	≤ 0.6 Nm
IHM06 non-flush	BEF-KH-M06, part no. 2101067	≥ 4 mm	≤ 0.6 Nm

Connection diagram

Cd-001



Response diagram

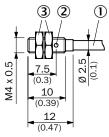


Distance of target edge to center of active face in mm (inch)

All dimensions in mm (inch)

Dimensional drawing (Dimensions in mm (inch))

IMM04, short variant, flush, cable



- ① Connection
- ② Function indicator
- 3 Fastening nuts (2 x); 6 mm hex, stainless steel

Recommended accessories

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

	Brief description	Туре	Part no.
Distributors			
	Head A: 3-pin Cable: unshielded	Y8A34A2- C2A8000XXX	2115733

	Brief description	Туре	Part no.		
Q.	Head A: 3-pin Cable: PUR, halogen-free, unshielded, 5 m	Y8A34A2- LXXXUAA050	2115727		
CALL	Head A: 3-pin Cable: unshielded	Y8A36A2- C2A8000XXX	2115734		
CIET	Head A: 3-pin Cable: PUR, halogen-free, unshielded, 5 m	Y8A36A2- LXXXUBA050	2115728		
Plug connect	Plug connectors and cables				
	Head A: male connector, M8, 3-pin, straight Cable: unshielded	STE-0803-G	6037322		
·100	Head A: male connector, M8, 3-pin, angled Cable: unshielded	STE-0803-WSK	6053170		
Terminal and alignment brackets					
	Plastic (PA6), without mounting hardware	BEF-KH-M04	2101065		

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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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