

IM04-0B6PS-ZUB

IMM

INDUCTIVE PROXIMITY SENSORS

SICKSensor Intelligence.

INDUCTIVE PROXIMITY SENSORS

Ordering information

Туре	Part no.
IM04-0B6PS-ZUB	6020610

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

Illustration may differ







Detailed technical data

Features

Housing	Metric
Housing	Standard design
Thread size	M4 x 0.5
Diameter	Ø 4 mm
Sensing range S _n	0.6 mm
Safe sensing range S _a	0.486 mm
Installation type	Flush
Switching frequency	5,000 Hz
Connection type	Cable, 3-wire, 5 m ¹⁾
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ²⁾
Items supplied	Mounting nut, V2A stainless steel (2x) Washer, V2A stainless steel, with locking teeth (2x)

 $^{^{1)}}$ Do not bend below 0 °C.

Mechanics/electronics

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

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

²⁾ According to EN 60529.

²⁾ With Ia = 100 mA.

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

Hysteresis	1 % 10 %
Reproducibility	≤ 2 % ³⁾
Temperature drift (of S _r)	≤ 10 %
EMC	EN 60947-5-2 IEC 61000-4-2: (Testlevel 2) IEC 61000-4-4: (Testlevel 2)
Continuous current I _a	≤ 100 mA
Cable material	PUR
Conductor size	0.06 mm ²
Cable diameter	Ø 2.6 mm
Short-circuit 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, POM
Housing length	22 mm
Thread length	19 mm
Tightening torque, max.	≤ 0.8 Nm
UL File No.	NRKH.E191603

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

Safety-related parameters

MTTF _D	186 years
DC _{avg}	0%
T _M (mission time)	20 years

Installation note

Remark	Associated graphic see "Installation"
A	0 mm
В	1 mm
c	4 mm
D	1.8 mm
E	0 mm
F	5 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 = 100 mA.

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

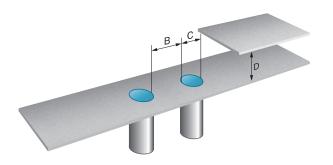
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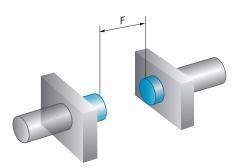
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ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

Flush installation





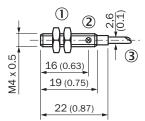
Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))

IMO4, standard-body, flush, cable



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

Recommended accessories

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

	Brief description	Туре	Part no.	
Terminal and	Terminal and alignment brackets			
	Plastic (PA6), without mounting hardware	BEF-KH-M04	2101065	
Others				
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 020VA1XLEAX	2095860	
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 050VA1XLEAX	2095884	
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 100VA1XLEAX	2095885	
3	 Connection type head A: Female connector, M8, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG8U13- 020VA1XLEAX	2096165	
3	 Connection type head A: Female connector, M8, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG8U13- 050VA1XLEAX	2096166	

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	Brief description	Туре	Part no.
3	 Connection type head A: Female connector, M8, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 10 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG8U13- 100VA1XLEAX	2096209
	 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
	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² 	DOS-0803-G	7902077
	 Connection type head A: Female connector, M8, 3-pin, angled, A-coded Description: Unshielded Connection systems: Solder connection Permitted cross-section: ≤ 0.25 mm² 	DOS-0803-W	7902078
6.60	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Male connector, M12, 3-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 020VA1M2A13	2096605
6.60	 Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Male connector, M12, 3-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF8U13- 050VA1M2A13	2096606

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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