

# IM08-1B5PS-ZC1

**IM Standard** 

**INDUCTIVE PROXIMITY SENSORS** 



# IM08-1B5PS-ZC1 | IM Standard

INDUCTIVE PROXIMITY SENSORS



#### Ordering information

Туре	Part no.
IM08-1B5PS-ZC1	6020223

Other models and accessories ->

Illustration may differ



#### Detailed technical data

#### **Features**

Housing	Cylindrical thread design
Housing	Standard
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range S <sub>n</sub>	1.5 mm
Installation type	Flush
Switching frequency	+ 3,000 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 <sup>1)</sup>

<sup>1)</sup> According to EN 60529.

#### Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	$\leq$ 1.2 V $^{1)}$
Current consumption	20 mA <sup>2)</sup>
Time delay before availability	≤ 100 ms
Hysteresis	2 % 10 %
Reproducibility	≤ 2 % <sup>3) 4)</sup>
Temperature drift (of S <sub>r</sub> )	± 10 %
EMC	According to EN 60947-5-2

 $<sup>^{1)}</sup>$  At I $_{\rm a}$  max.

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<sup>&</sup>lt;sup>2)</sup> Without load.

 $<sup>^{</sup>m 3)}$  Ub and Ta constant.

<sup>&</sup>lt;sup>4)</sup> Of Sr.

Continuous current I <sub>a</sub>	≤ 200 mA
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	Brass, Nickel-plated brass
Sensing face material	Plastic
Housing length	60 mm
Thread length	38 mm
Tightening torque, max.	≤ 4 Nm

 $<sup>^{1)}</sup>$  At I $_{\rm a}$  max.

#### Reduction factors

Stainless steel (V4A, 316L)	0.78
Aluminum (Al)	0.38
Copper (Cu)	0.29
Brass (Br)	0.49

#### Installation note

Remark	Associated graphic see "Installation"
A	3.25 mm
В	8 mm
С	8 mm
D	4.5 mm
E	0 mm
F	12 mm

#### Classifications

ECI@ss 5.0	27270101
ECI@ss 5.1.4	27270101
ECI@ss 6.0	27270101
ECI@ss 6.2	27270101
ECI@ss 7.0	27270101
ECI@ss 8.0	27270101
ECI@ss 8.1	27270101
ECI@ss 9.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

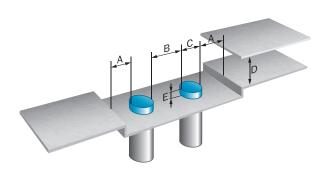
<sup>&</sup>lt;sup>2)</sup> Without load.

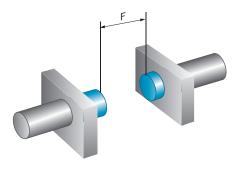
 $<sup>^{</sup>m 3)}$  Ub and Ta constant.

<sup>&</sup>lt;sup>4)</sup> Of Sr.

#### Installation note

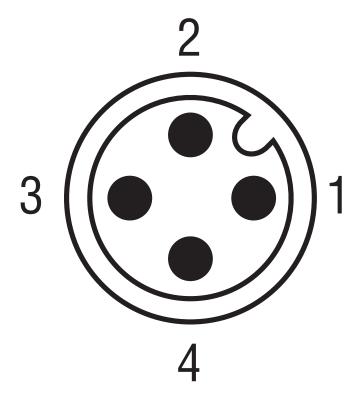
Non-flush installation



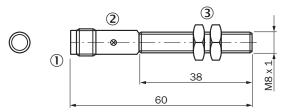


### Connection diagram

Cd-007



#### Dimensional drawing (Dimensions in mm (inch))



- ① Connection
- ② Indication LED
- 3 Fastening nuts (2x); width across 13, metal

#### Recommended accessories

Other models and accessories →

	Brief description	Туре	Part no.	
Mounting bra	Mounting brackets and plates			
	Mounting plate for M8 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M08	5321722	
	Mounting bracket for M8 sensors, steel, zinc coated, without mounting hardware	BEF-WN-M08	5321721	
Terminal and	alignment brackets			
	Clamping block for round sensors M8, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included	BEF-KH-M08	2051477	
Plug connect	ors and cables			
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF2A14- 020VB3XLEAX	2096234	
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A14- 050VB3XLEAX	2096235	
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A14- 020VB3XLEAX	2095895	
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG2A14- 050VB3XLEAX	2095897	
13	Head A: female connector, M12, 4-pin, angled with LED, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m Only suitable for PNP sensors	YI2A14- 020VB3XLEAX	2096222	
	Head A: female connector, M12, 4-pin, angled with LED, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m Only suitable for PNP sensors	YI2A14- 050VB3XLEAX	2096223	

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Brief description	Туре	Part no.
Head A: female connector, M12, 4-pin, straight Head B: - Cable: unshielded	DOS-1204-G	6007302
Head A: female connector, M12, 4-pin, angled Head B: - Cable: unshielded	DOS-1204-W	6007303
Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932
Head A: male connector, M12, 4-pin, angled Head B: - Cable: unshielded	STE-1204-W	6022084

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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.

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