

IM08-1B5PS-ZC1

IM Standard

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.

Ordering information

Model name	Part no.
IM08-1B5PS-ZC1	6020223

Other models and accessories → www.sick.de/IM_Standard



Detailed technical data

Features

Housing	Cylindrical standard
Thread size	M8 x 1
Sensing range S_n	1,5 mm
Installation type	Flush
Switching frequency	3.000 Hz
Connection type	Connector M12, 4-pin
Output type	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP 67 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 10 %
Voltage drop	≤ 1,2 V ¹⁾
Current consumption	≤ 20 mA ²⁾
Time delay before availability	≤ 100 ms
Hysteresis	2 % ... 10 %
Repeatability	≤ 2 % ³⁾ ⁴⁾
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 200 mA
Short-circuit protection	✓
Reverse polarity protection	✓
Power-up pulse protection	✓

¹⁾ At I_a max.

²⁾ Without load.

³⁾ U_b and T_a constant.

⁴⁾ Of S_r .

Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Metal, Nickel-plated brass
Housing cap material	Plastic
Housing length	60 mm
Thread length	38 mm
Tightening torque, max.	4 Nm

1) At I_a max.

2) Without load.

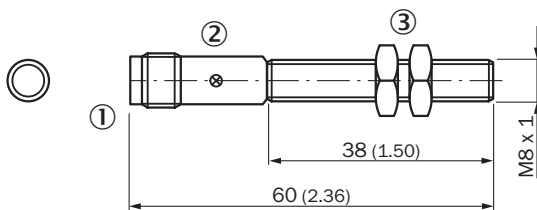
3) U_b and T_a constant.

4) Of S_r .

Installation note

Remark	Associated graphic see "Installation"
A	3,25 mm
B	8 mm
C	8 mm
D	4,5 mm
E	0 mm
F	12 mm

Dimensional drawing (Dimensions in mm (inch))



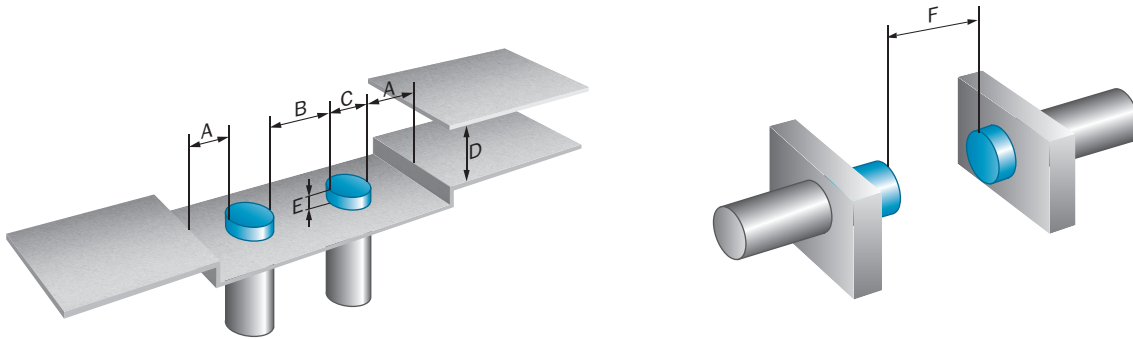
① Connection

② Status LED

③ Fastening nuts (2 x); width across 13, metal

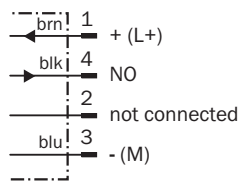
Installation note

Non-flush installation

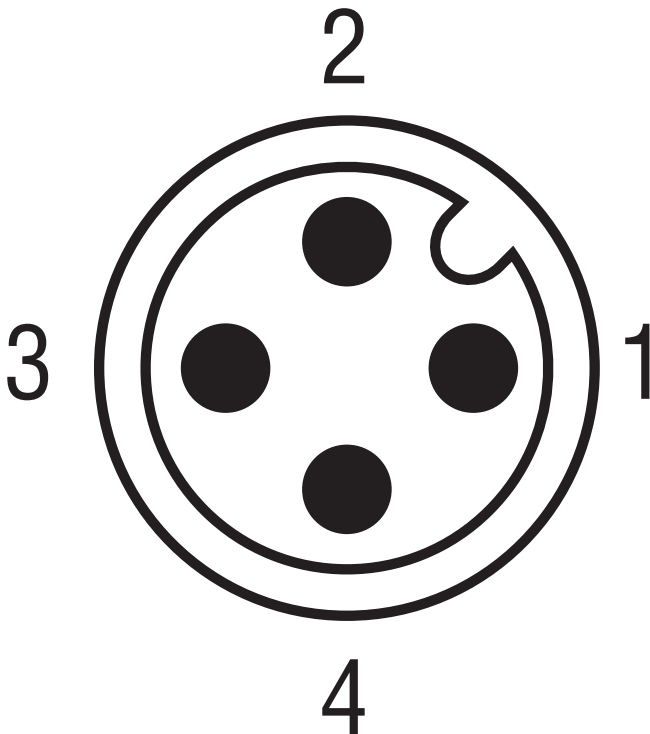


Connection diagram

Cd-007



Connection to conveyor



Recommended accessories

Other models and accessories → www.sick.de/IM_Standard

	Brief description	Model name	Part no.
Mounting brackets and mounting plates			
	Mounting plate for M8 sensors, steel, zinc coated, without mounting hardware	BEF-WG-M08	5321722
	Mounting bracket, M8 thread, 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 connectors and cables			
	Head A: female connector, M12, 4-pin, straight Head B: Cable Cable: PVC, unshielded, 2 m	DOL-1204-G02M	6009382
	Head A: female connector, M12, 4-pin, straight Head B: Cable Cable: PVC, unshielded, 5 m	DOL-1204-G05M	6009866
	Head A: female connector, M12, 4-pin, angled, with 3 LEDs Head B: Cable Cable: PVC, unshielded, 2 m	DOL-1204-L02M	6027945
	Head A: female connector, M12, 4-pin, angled, with 3 LEDs Head B: Cable Cable: PVC, unshielded, 5 m	DOL-1204-L05M	6027944
	Head A: female connector, M12, 4-pin, angled Head B: Cable Cable: PVC, unshielded, 2 m	DOL-1204-W02M	6009383
	Head A: female connector, M12, 4-pin, angled Head B: Cable Cable: PVC, unshielded, 5 m	DOL-1204-W05M	6009867
	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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