

# IM08-1B5PS-ZUK

**IM Standard** 

**INDUCTIVE PROXIMITY SENSORS** 





# Ordering information

Туре	Part no.
IM08-1B5PS-ZUK	6048740

Other models and accessories → www.sick.com/IM\_Standard

Illustration may differ



### Detailed technical data

### **Features**

Housing	Cylindrical thread design
Housing	Short-body
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range S <sub>n</sub>	1.5 mm
Installation type	Flush
Switching frequency	5,000 Hz
Connection type	Cable, 3-wire, 5 m
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	≤ 20 % <sup>1)</sup>
Voltage drop	$\leq$ 2 V $^{2)}$
Time delay before availability	≤ 10 ms
Hysteresis	≤ 10 %
Reproducibility	≤ 5 % <sup>3) 4)</sup>
Temperature drift (of S <sub>r</sub> )	± 10 %
EMC	According to EN 60947-5-2
Continuous current I <sub>a</sub>	≤ 200 mA

 $<sup>^{1)}</sup>$  Of V<sub>S</sub>.

 $<sup>^{2)}</sup>$  At I $_{\rm a}$  max.

<sup>3)</sup> Ub and Ta constant.

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

Cable material	PUR
Conductor size	0.14 mm <sup>2</sup>
Short-circuit protection	<b>√</b>
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	16 mm
Thread length	16 mm
Tightening torque, max.	4 Nm

 $<sup>^{1)}</sup>$  Of  $V_{\mbox{\scriptsize S}}.$ 

# Safety-related parameters

MTTF <sub>D</sub>	186 years
<b>DC</b> <sub>avg</sub>	0%
T <sub>M</sub> (mission time)	20 years

### Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.8
Aluminum (AI)	Approx. 0.45
Copper (Cu)	Approx. 0.4
Brass (Br)	Approx. 0.5

### Installation note

Remark	Associated graphic see "Installation"
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### Classifications

eCl@ss 5.0	27270101
eCl@ss 5.1.4	27270101
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

 $<sup>^{2)}</sup>$  At  $I_{\rm a}$  max.

<sup>3)</sup> Ub and Ta constant.

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

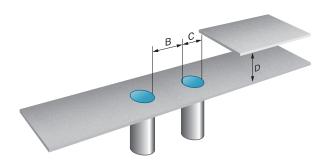
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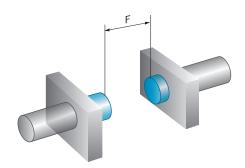
INDUCTIVE PROXIMITY SENSORS

ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

### Installation note

Flush installation





# Connection type



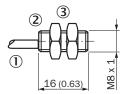
# Connection diagram

Cd-001



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

IM08, cable, flush



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

### Recommended accessories

Other models and accessories → www.sick.com/IM\_Standard

	Brief description	Туре	Part no.	
Mounting brad	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	

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SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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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