



# IM08-02BPS-ZUA

IM Standard

PRODUCT PORTFOLIO

**SICK**  
Sensor Intelligence.



Illustration may differ



### Ordering information

Type	Part no.
IM08-02BPS-ZUA	6030237

Other models and accessories → [www.sick.com/IM\\_Standard](http://www.sick.com/IM_Standard)

### Detailed technical data

#### Features

<b>Housing</b>	Cylindrical thread design short-body
<b>Thread size</b>	M8 x 1
<b>Diameter</b>	Ø 8 mm
<b>Sensing range <math>S_n</math></b>	2 mm
<b>Installation type</b>	Flush
<b>Switching frequency</b>	3,000 Hz
<b>Connection type</b>	Cable, 3-wire, 3 m
<b>Output type</b>	PNP
<b>Output function</b>	NO
<b>Electrical wiring</b>	DC 3-wire
<b>Enclosure rating</b>	IP 67 <sup>1)</sup>

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

#### Mechanics/electronics

<b>Supply voltage</b>	10 V DC ... 30 V DC
<b>Ripple</b>	≤ 10 % <sup>1)</sup>
<b>Voltage drop</b>	≤ 1.2 V <sup>2)</sup>
<b>Current consumption</b>	≤ 10 mA <sup>3)</sup>
<b>Time delay before availability</b>	≤ 5 ms
<b>Hysteresis</b>	1 % ... 20 %
<b>Repeatability</b>	≤ 5 % <sup>4) 5)</sup>

<sup>1)</sup> Of  $V_S$ .

<sup>2)</sup> At  $I_a$  max.

<sup>3)</sup> Without load.

<sup>4)</sup>  $U_b$  and  $T_a$  constant.

<sup>5)</sup> , of  $S_r$ .

<b>Temperature drift (of S<sub>r</sub>)</b>	± 10 %
<b>EMC</b>	According to EN 60947-5-2
<b>Continuous current I<sub>a</sub></b>	≤ 200 mA
<b>Cable material</b>	PUR
<b>Conductor size</b>	0.14 mm <sup>2</sup>
<b>Short-circuit protection</b>	✓
<b>Reverse polarity protection</b>	✓
<b>Power-up pulse protection</b>	✓
<b>Shock and vibration resistance</b>	30 g, 11 ms / 10 ... 55 Hz, 1 mm
<b>Ambient operating temperature</b>	-25 °C ... +70 °C
<b>Housing material</b>	Metal, Nickel-plated brass
<b>Sensing face material</b>	Plastic, Plastic
<b>Housing length</b>	35.5 mm
<b>Thread length</b>	30.2 mm
<b>Tightening torque, max.</b>	4 Nm

1) Of V<sub>S</sub>.

2) At I<sub>a</sub> max.

3) Without load.

4) U<sub>b</sub> and T<sub>a</sub> constant.

5) , of S<sub>r</sub>.

## Installation note

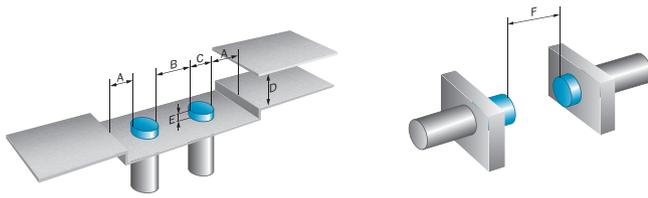
<b>Remark</b>	Associated graphic see "Installation"
<b>A</b>	3.25 mm
<b>B</b>	8 mm
<b>C</b>	8 mm
<b>D</b>	6 mm
<b>E</b>	0 mm
<b>F</b>	16 mm

## Classifications

<b>ECl@ss 5.0</b>	27270101
<b>ECl@ss 5.1.4</b>	27270101
<b>ECl@ss 6.0</b>	27270101
<b>ECl@ss 6.2</b>	27270101
<b>ECl@ss 7.0</b>	27270101
<b>ECl@ss 8.0</b>	27270101
<b>ECl@ss 8.1</b>	27270101
<b>ECl@ss 9.0</b>	27270101
<b>ETIM 5.0</b>	EC002714
<b>ETIM 6.0</b>	EC002714
<b>UNSPSC 16.0901</b>	39122230

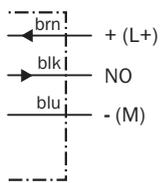
### Installation note

Non-flush installation

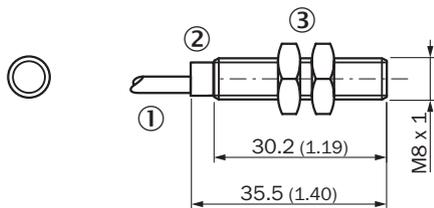


### Connection diagram

Cd-001



### 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 → [www.sick.com/IM\\_Standard](http://www.sick.com/IM_Standard)

	Brief description	Type	Part no.
<b>Mounting brackets and mounting plates</b>			
	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
<b>Terminal and alignment brackets</b>			

	Brief description	Type	Part no.
	Clamping block for round sensors M8, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included	BEF-KH-M08	2051477

## SICK AT A GLANCE

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.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)