# IME08-1B5PSZUDKS31

**INDUCTIVE PROXIMITY SENSORS** 



### IME08-1B5PSZUDKS31 | IME

INDUCTIVE PROXIMITY SENSORS



#### Ordering information

Туре	Part no.
IME08-1B5PSZUDKS31	1061643

Included in delivery: BEF-MU-M08 (1)

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

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
Safe sensing range S <sub>a</sub>	1.215 mm
Installation type	Flush
Switching frequency	4,000 Hz
Connection type	Cable, 3-wire, 6 m
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 <sup>1)</sup>
Items supplied	Mounting nut, brass, nickel-plated (2x)

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

#### Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	$\leq 2 V^{(1)}$
Time delay before availability	≤ 100 ms

<sup>1)</sup> At I<sub>a</sub> max.

 $^{2)}\ensuremath{\,\text{Supply voltage U}_B}$  and constant ambient temperature Ta.

<sup>3)</sup> Of Sr.

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Hysteresis	5 % 15 %
Reproducibility	$\leq 2 \%^{(2)(3)}$
Temperature drift (of S <sub>r</sub> )	± 10 %
EMC	According to EN 60947-5-2
Continuous current I <sub>a</sub>	≤ 200 mA
No load current	≤ 10 mA
Cable material	PUR
Conductor size	0.25 mm <sup>2</sup>
Cable diameter	Ø 3.9 mm
Short-circuit protection	✓
Reverse polarity protection	1
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms/10 Hz 55 Hz, 1 mm
Ambient operating temperature	-25 °C +75 °C
Housing material	Brass, nickel-plated
Sensing face material	Plastic, PA 66
Housing length	38 mm
Thread length	20 mm
Tightening torque, max.	≤ 5 Nm
UL File No.	NRKH.E181493

 $^{1)}$  At I<sub>a</sub> max.

 $^{2)}$  Supply voltage  $\mathrm{U}_{\mathrm{B}}$  and constant ambient temperature Ta.

 $^{\rm 3)}$  Of Sr.

#### Safety-related parameters

MTTF <sub>D</sub>	1,735 years
DC <sub>avg</sub>	0 %
T <sub>M</sub> (mission time)	20 years

#### **Reduction factors**

Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.8
Aluminum (Al)	Approx. 0.45
Copper (Cu)	Approx. 0.4
Brass (Br)	Approx. 0.4

#### Installation note

Remark	Associated graphic see "Installation"
В	8 mm
с	8 mm
D	4.5 mm
F	12 mm

## IME08-1B5PSZUDKS31 | IME

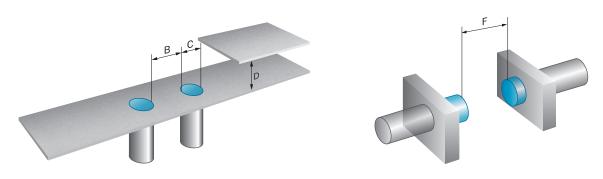
INDUCTIVE PROXIMITY SENSORS

#### 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
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

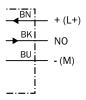
#### Installation note

Flush installation



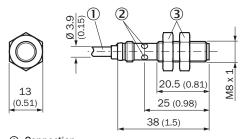
#### Connection diagram

Cd-001



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

IME08 Short-body housing, cable, flush



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

#### **Recommended accessories**

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

	Brief description	Туре	Part no.
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
	Clamping block for round sensors M8, with fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included	BEF-KHF-M08	2051478

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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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