

# IME08-2N5NOZW2K

**INDUCTIVE PROXIMITY SENSORS** 



#### Ordering information

Туре	part no.
IME08-2N5N0ZW2K	1040867

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

Illustration may differ



#### Detailed technical data

#### **Features**

Housing	Metric
Housing	Short-body
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range S <sub>n</sub>	2.5 mm
Safe sensing range S <sub>a</sub>	2.025 mm
Installation type	Non-flush
Switching frequency	4,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	NPN
Switching output detail	NPN
Output function	NC
Electrical wiring	DC 3-wire
Enclosure rating	IP67 <sup>1)</sup>
Items supplied	Mounting nut, steel, nickel-plated (2 x)

<sup>&</sup>lt;sup>1)</sup> According to EN 60529.

#### Mechanics/electronics

,	
Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 %
Voltage drop	$\leq$ 2 V $^{1)}$

<sup>1)</sup> At L may

 $<sup>^{\</sup>rm 2)}$  Supply voltage  $U_{B}$  and constant ambient temperature Ta.

<sup>&</sup>lt;sup>3)</sup> Of Sr.

Time delay before availability	≤ 100 ms
Hysteresis	5 % 15 %
Reproducibility	≤ 2 % <sup>2)</sup> 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	PVC
Conductor size	0.25 mm <sup>2</sup>
Cable diameter	Ø 3.9 mm
Short-circuit protection	✓
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	43 mm
Thread length	21 mm
Tightening torque, max.	≤ 5 Nm
UL File No.	NRKH.E181493

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

### Safety-related parameters

MTTF <sub>D</sub>	1,735 years
DC <sub>avg</sub>	0 %

#### Reduction factors

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

#### Installation note

Remark	Associated graphic see "Installation"
Α	8 mm
В	16 mm
c	8 mm
D	7.5 mm
E	6 mm

 $<sup>^{2)}\,\</sup>mbox{Supply}$  voltage  $\mbox{U}_{\mbox{\footnotesize B}}$  and constant ambient temperature Ta.

<sup>&</sup>lt;sup>3)</sup> Of Sr.

# IME08-2N5NOZW2K | IME

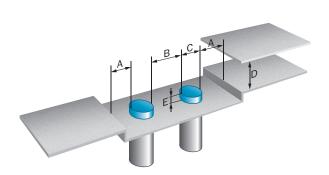
INDUCTIVE PROXIMITY SENSORS

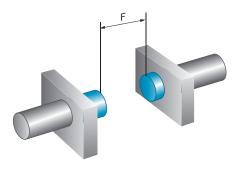
F	20 mm
Certificates	
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	1
Moroccan declaration of conformity	<b>√</b>
China RoHS	<b>✓</b>
cULus certificate	✓
Classifications	
ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 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

EC002714

39122230

#### Installation note Non-flush installation





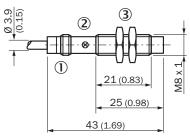
**ETIM 8.0** 

UNSPSC 16.0901

#### Connection diagram Cd-003



#### Dimensional drawing IME08 short variant, cable, non-flush



Dimensions in mm (inch)

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

#### Recommended accessories

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

	Brief description	Туре	part no.
Mounting syst	Mounting systems		
	<ul> <li>Description: Clamping block for round sensors M8, with fixed stop</li> <li>Material: Plastic</li> <li>Details: Plastic (PA12), glass-fiber reinforced</li> <li>Items supplied: Mounting hardware included</li> </ul>	BEF-KHF-M08	2051478
	<ul> <li>Description: Clamping block for round sensors M8, without fixed stop</li> <li>Material: Plastic</li> <li>Details: Plastic (PA12), glass-fiber reinforced</li> <li>Items supplied: Mounting hardware included</li> </ul>	BEF-KH-M08	2051477
	<ul> <li>Description: Mounting bracket for M8 sensors</li> <li>Material: Steel</li> <li>Details: Steel, zinc coated</li> <li>Items supplied: Without mounting hardware</li> </ul>	BEF-WN-M08	5321721
619	<ul> <li>Description: Mounting plate for M8 sensors</li> <li>Material: Steel</li> <li>Details: Steel, zinc coated</li> <li>Items supplied: Without mounting hardware</li> </ul>	BEF-WG-M08	5321722

## 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

