

IME18-08BNSZW5S

IME

INDUCTIVE PROXIMITY SENSORS





Ordering information

| Туре | Part no. |
|-----------------|----------|
| IME18-08BNSZW5S | 1044613 |

Included in delivery: BEF-MU-M18 (1)

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



Detailed technical data

Features

| reatures | |
|-----------------------------------|---|
| Housing | Metric |
| Housing | Standard design |
| Thread size | M18 x 1 |
| Diameter | Ø 18 mm |
| Sensing range S _n | 8 mm |
| Safe sensing range S _a | 6.48 mm |
| Installation type | Flush |
| Switching frequency | 1,000 Hz |
| Connection type | Cable, 3-wire, 5 m |
| Switching output | NPN |
| Output function | NO |
| Electrical wiring | DC 3-wire |
| Enclosure rating | IP67 ¹⁾ |
| Items supplied | Mounting nut, brass, nickel-plated (2x) |

¹⁾ 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 | |
| Hysteresis | 5 % 15 % | |

¹⁾ At I_a max.

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

³⁾ Of Sr.

| Reproducibility | ≤ 2 % ^{2) 3)} |
|--|-------------------------------|
| Temperature drift (of S _r) | ± 10 % |
| EMC | According to EN 60947-5-2 |
| Continuous current I _a | ≤ 200 mA |
| No load current | ≤ 10 mA |
| Cable material | PVC |
| Conductor size | 0.25 mm ² |
| 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 | 67 mm |
| Thread length | 52 mm |
| Tightening torque, max. | ≤ 40 Nm |
| UL File No. | NRKH.E181493 |

 $^{^{1)}}$ At I_a max.

Safety-related parameters

| MTTF _D | 1,735 years |
|--------------------------|-------------|
| DC _{avg} | 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" |
|--------|---------------------------------------|
| В | 36 mm |
| c | 18 mm |
| D | 24 mm |
| F | 64 mm |

Classifications

| ECLASS 5.0 | 27270101 |
|--------------|----------|
| ECLASS 5.1.4 | 27270101 |

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

³⁾ Of Sr.

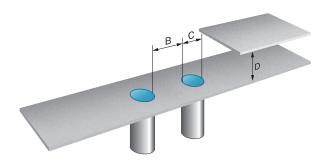
IME18-08BNSZW5S | IME

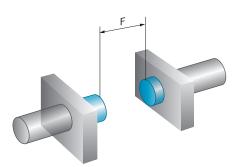
INDUCTIVE PROXIMITY SENSORS

| 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





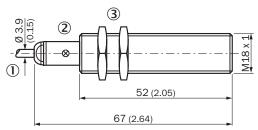
Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))

IME18 standard, cable, flush



- ① Connection
- ② Display LED
- 3 Fastening nuts (2x); width across 24, metal

Recommended accessories

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

| | Brief description | Туре | Part no. |
|---------------------------------|---|-------------|----------|
| Mounting brackets and plates | | | |
| | Mounting plate for M18 sensors, steel, zinc coated, without mounting hardware | BEF-WG-M18 | 5321870 |
| 40 | Mounting bracket for M18 sensors, steel, zinc coated, without mounting hardware | BEF-WN-M18 | 5308446 |
| Terminal and alignment brackets | | | |
| S | Clamping block for round sensors M18, without fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included $$ | BEF-KH-M18 | 2051481 |
| | Clamping block for round sensors M18, with fixed stop, plastic (PA12), glass-fiber reinforced, mounting hardware included | BEF-KHF-M18 | 2051482 |

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