

IME30-15NPSZW5SS17

INDUCTIVE PROXIMITY SENSORS



Ordering information

| Туре | part no. |
|--------------------|----------|
| IME30-15NPSZW5SS17 | 1054335 |

Included in delivery: BEF-MU-M30 (1)

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

Illustration may differ



Detailed technical data

Features

| Housing | Metric |
|-----------------------------------|---|
| Housing | Standard design |
| Thread size | M30 x 1.5 |
| Diameter | Ø 30 mm |
| Sensing range S _n | 15 mm |
| Safe sensing range S _a | 12.15 mm |
| Installation type | Non-flush |
| Switching frequency | 500 Hz |
| Connection type | Cable with Phönix MC1 male connector, 5/3ST-3, 81, 3-pin, 5 m |
| Switching output | PNP |
| Switching output detail | PNP |
| 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 $^{1)}$ |

¹⁾ At L may

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

³⁾ Of Sr.

| Time delay before availability | ≤ 125 ms |
|--|-------------------------------|
| Hysteresis | 5 % 15 % |
| 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 |
| 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 | 70 mm |
| Thread length | 41 mm |
| Tightening torque, max. | ≤ 100 Nm |
| UL File No. | NRKH.E181493 |

¹⁾ At Ia 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" |
|--------|---------------------------------------|
| Α | 30 mm |
| В | 60 mm |
| c | 30 mm |
| D | 45 mm |
| E | 30 mm |
| F | 120 mm |

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

³⁾ Of Sr.

IME30-15NPSZW5SS17 | IME

INDUCTIVE PROXIMITY SENSORS

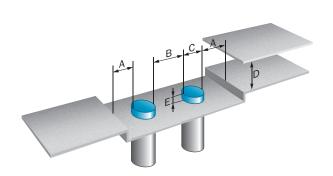
Certificates

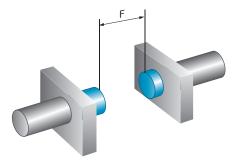
| EU declaration of conformity | ✓ |
|------------------------------------|---|
| UK declaration of conformity | ✓ |
| ACMA declaration of conformity | ✓ |
| Moroccan declaration of conformity | ✓ |
| China RoHS | ✓ |
| cULus certificate | ✓ |

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 |
| ETIM 8.0 | EC002714 |
| UNSPSC 16.0901 | 39122230 |
| | |

Installation note Non-flush installation

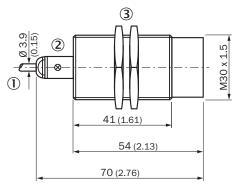




Connection diagram Cd-001



Dimensional drawing IME30 standard, cable with male connector, non-flush



Dimensions in mm (inch)

- ① Connection
- ② Display LED
- ③ Fastening nuts (2x); width across 36, metal

Recommended accessories

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

| | Brief description | Туре | part no. | |
|---------------|--|------------|----------|--|
| Mounting syst | Mounting systems | | | |
| 40 | Description: Mounting bracket for M30 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware | BEF-WN-M30 | 5308445 | |
| 0 | Description: Mounting plate for M30 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware | BEF-WG-M30 | 5321871 | |

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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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