



IM18-05BUS-ZUB

IMW

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
IM18-05BUS-ZUB	6022653

Included in delivery: BEF-MU-M18 (1)
Other models and accessories → www.sick.com/IMW

Illustration may differ

Detailed technical data

Features

Housing	Metric
Housing	Standard design
Thread size	M18 x 1
Diameter	Ø 18 mm
Sensing range S_n	5 mm
Installation type	Flush
Switching frequency	25 Hz ¹⁾ 100 Hz ²⁾
Connection type	Cable, 2-wire, 6 m
Output function	NO
Electrical wiring	AC/DC 2-wire
Enclosure rating	IP67 ³⁾
Items supplied	Mounting nut, brass, nickel-plated (2x)

¹⁾ AC.

²⁾ DC.

³⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	20 V AC/DC ... 250 V AC/DC
Voltage drop	≤ 6.5 V AC, ≤ 6 V DC
Time delay before availability	≤ 8 ms
Hysteresis	1 % ... 15 %
Reproducibility	≤ 10 % ¹⁾ ²⁾

¹⁾ Supply voltage U_B and constant ambient temperature T_a .

²⁾ Of S_r .

³⁾ AC (+50 °C).

⁴⁾ AC (+80 °C).

⁵⁾ DC.

⁶⁾ 20 ms / 0.5 Hz.

⁷⁾ Miniature fuse to IEC 60217-2 Sheet 1, ≤ 2 A (quick-blow).

Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2 As per EN 55011, class B
Continuous current I_a	≤ 350 mA ³⁾ ≤ 250 mA ⁴⁾ ≤ 100 mA ⁵⁾
Off-state current	≤ 2.5 mA (AC 250 V) ≤ 1.3 mA (AC 110 V) ≤ 0.8 mA (DC 24 V)
Minimum load current	≥ 5 mA
Short-time withstand current	2.2 A ⁶⁾
Cable material	PUR/PVC
Conductor size	0.5 mm ²
Short-circuit protection	⁷⁾
Power-up pulse protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +80 °C
Housing material	Brass, nickel-plated
Sensing face material	Plastic, PBT
Housing length	80 mm
Thread length	58 mm
Tightening torque, max.	≤ 35 Nm
Protection class	II

¹⁾ Supply voltage U_B and constant ambient temperature T_a .

²⁾ Of S_r .

³⁾ AC (+50 °C).

⁴⁾ AC (+80 °C).

⁵⁾ DC.

⁶⁾ 20 ms / 0.5 Hz.

⁷⁾ Miniature fuse to IEC 60217-2 Sheet 1, ≤ 2 A (quick-blow).

Installation note

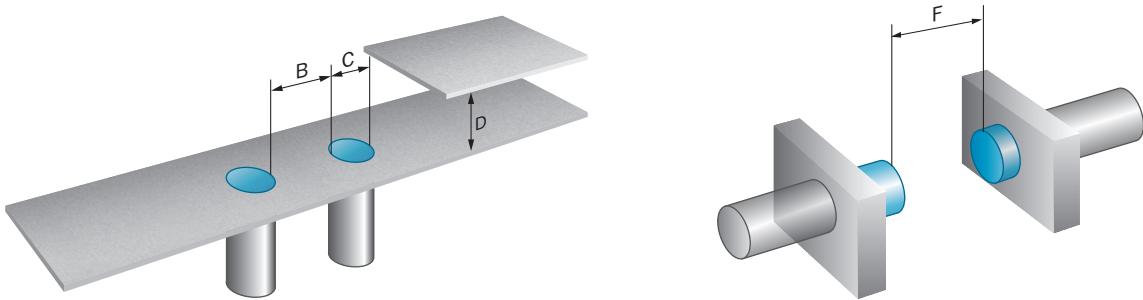
Remark	Associated graphic see "Installation"
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Classifications

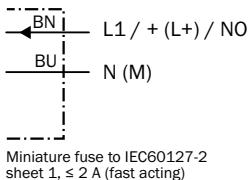
ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001

ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

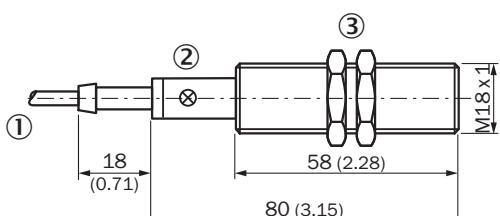
Installation note Flush installation



Connection diagram Cd-020



Dimensional drawing IM18, AC/DC 2-wire, cable, flush



Dimensions in mm (inch)

① Connection

② Display LED

③ Fastening nuts (2x); width across 24, metal

Recommended accessories

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

	Brief description	Type	part no.
Mounting systems			
	<ul style="list-style-type: none"> Description: Mounting bracket for M18 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware Suitable for: GR18, V180-2, V18, W15, Z1, Z2 	BEF-WN-M18	5308446
	<ul style="list-style-type: none"> Description: Mounting bracket for M18 sensors Material: Stainless steel Details: Stainless steel Items supplied: Without mounting hardware 	BEF-WN-M18N	5320947
	<ul style="list-style-type: none"> Description: Mounting plate for M18 sensors Material: Steel Details: Steel, zinc coated Items supplied: Without mounting hardware Suitable for: GR18, V180-2, V18, W15, Z1, Z2 	BEF-WG-M18	5321870
	<ul style="list-style-type: none"> Description: Clamping block for round sensors M18, without fixed stop Material: Plastic Details: Plastic (PA12), glass-fiber reinforced Items supplied: Mounting hardware included Suitable for: GR18, MH15V, V180-2, V18 	BEF-KH-M18	2051481

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