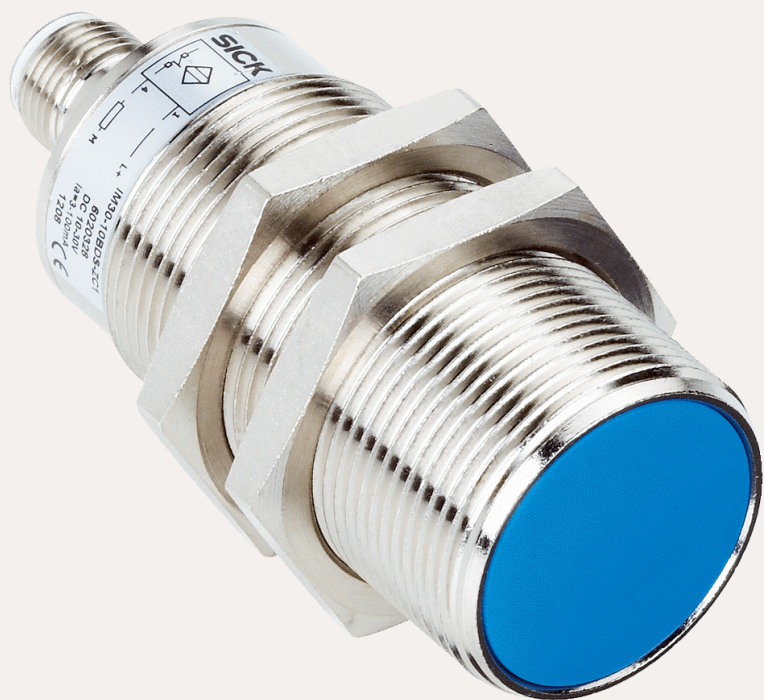




DATA SHEET

IM30-15NDS-ZC1

IM Standard
Inductive proximity sensors

SICK Sensor Intelligence



Illustration may differ

INDUCTIVE PROXIMITY SENSORS

IM30-15NDS-ZC1

ORDERING INFORMATION

Type	part no.
IM30-15NDS-ZC1	6020332

Further device versions and accessories at www.sick.com/IM_Standard



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	150 Hz
Connection type	Male connector M12, 4-pin
Output function	NO
Electrical wiring	DC 2-wire
Enclosure rating	IP67 ¹⁾

¹⁾ According to EN 60529.

MECHANICS/ELECTRONICS

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 10 %
Voltage drop	≤ 2.8 V ¹⁾
Time delay before availability	≤ 50 ms
Hysteresis	2 % ... 10 %
Reproducibility	≤ 2 % ²⁾

¹⁾ At I_a max.

²⁾ Supply voltage U_a and constant ambient temperature T_a .

³⁾ Of S_r .

	³⁾
Temperature drift (of S _i)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _s	≤ 100 mA
Off-state current	≤ 0.8 mA
Minimum load current	≥ 3 mA
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	-25 °C ... +70 °C
Housing material	Brass, Nickel-plated brass
Sensing face material	Plastic
Housing length	76 mm
Thread length	38 mm
Tightening torque, max.	60 Nm

¹⁾ At I_s max.

²⁾ Supply voltage U_s and constant ambient temperature Ta.

³⁾ Of Sr.

REDUCTION FACTORS

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.8
Aluminum (Al)	Approx. 0.5
Copper (Cu)	Approx. 0.45
Brass (Br)	Approx. 0.55

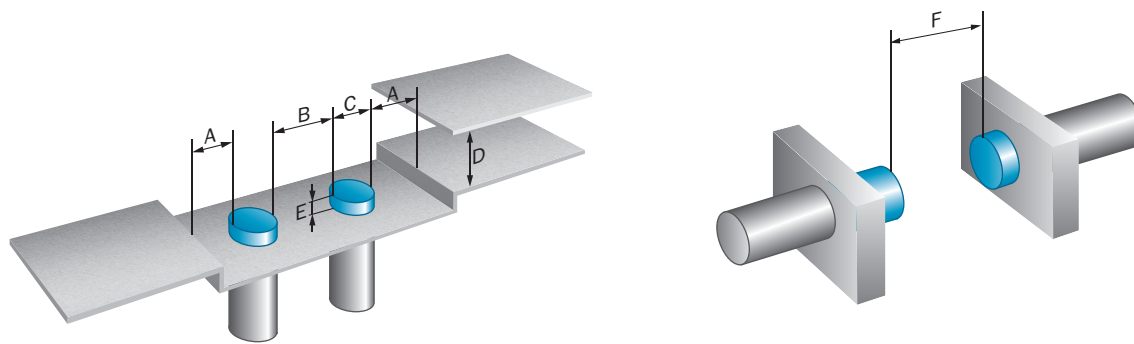
INSTALLATION NOTE

Remark	Associated graphic see "Installation"
A	15 mm
B	45 mm
C	30 mm
D	45 mm
E	18 mm
F	120 mm

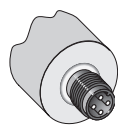
CERTIFICATES

EU declaration of conformity	✓
UK declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓

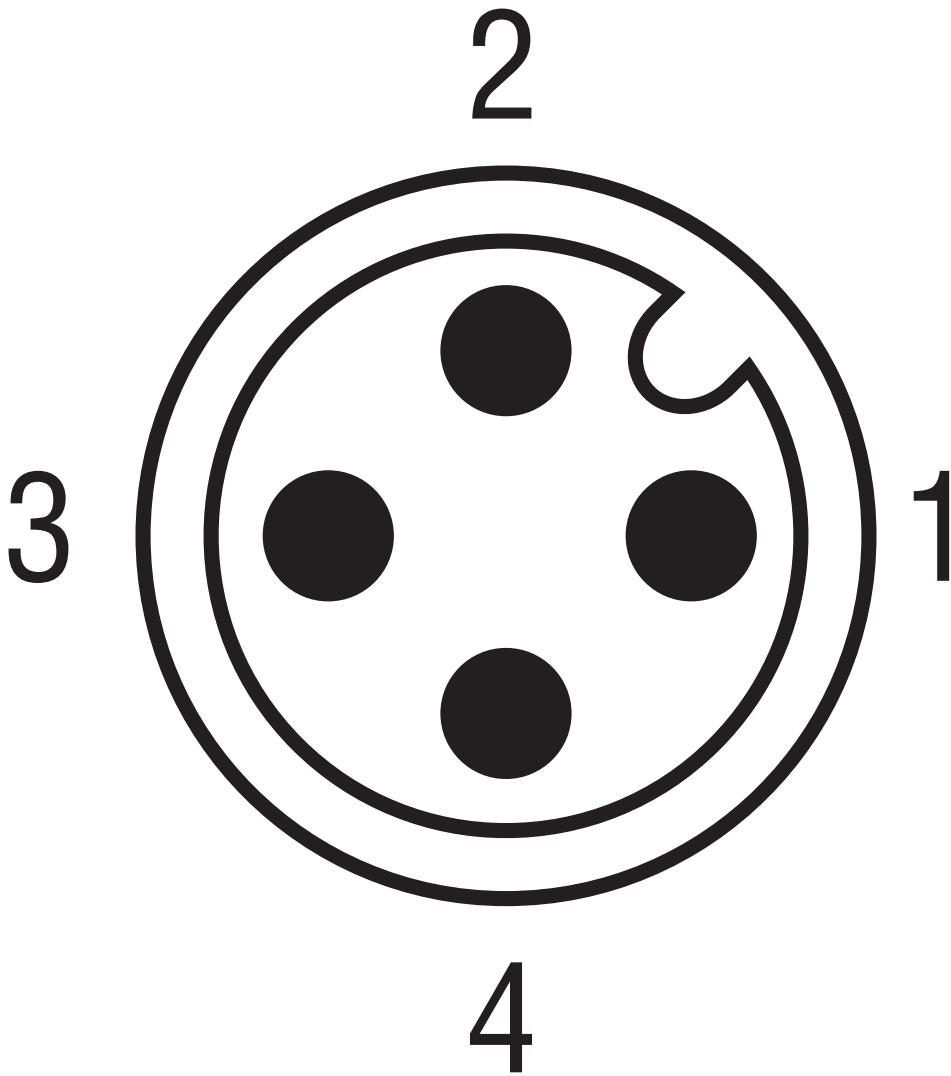
INSTALLATION NOTE NON-FLUSH INSTALLATION



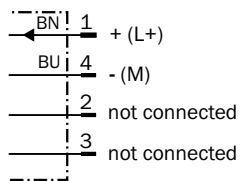
CONNECTION TYPE



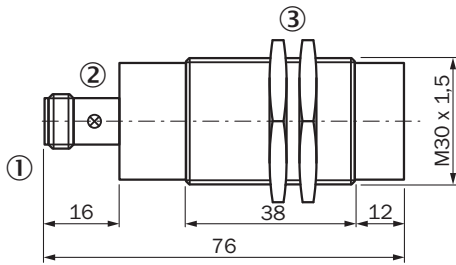
CONNECTION DIAGRAM



CONNECTION DIAGRAM CD-014



DIMENSIONAL DRAWING IM30, DC 2-WIRE, MALE CONNECTOR, NON-FLUSH



Dimensions in mm (inch)

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

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6020332



SICK AG
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GERMANY
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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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