



Datasheet

RS Stock No: 701-8244

Inductive Proximity Sensor





Detailed Technical data

Features

Housing	Cylindrical thread design
Housing	Standard
Thread size	M18 x 1
Diameter	Ø 18 mm
Sensing range Sn	5 mm
Safe sensing range Sa	4.05 mm
Installation type	Flush
Switching frequency	1,000 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

10 V DC 30 V DC
≤ 10 %
≤ 2 V ¹)
10 mA ²⁾
≤ 100 ms
5 % 15 %
≤ 2 % ^{3) 4)}
± 10 %
According to EN 60947-5-2
≤ 200 mA
✓
✓
✓
30 g, 11 ms/10 Hz 55 Hz, 1 mm
−25 °C +75 °C
Metal, Nickel-plated brass
Plastic, PA 66
69 mm
52 mm
≤ 40 Nm
Mounting nut, brass, nickel-plated (2x)
NRKH.E181493

¹⁾ At I_amax.

Reduction Factors

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

Installation note

Remark	Associated graphic see "Installation" on next page
В	18 mm
С	18 mm
D	15 mm
F	40 mm

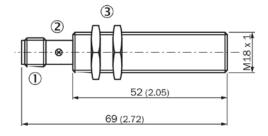
²⁾ Without load.

³⁾ Ub and Ta constant.

⁴⁾ Of Sr.

Dimensional drawing (Dimensions in mm (inch)

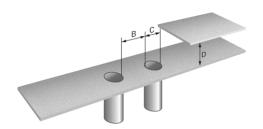
IME18 Standard, connector, flush

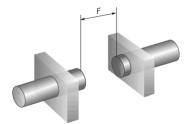


- 1. Connection
- 2. Indication LED
- 3. Fastening nuts (2x); width across 24, metal

Installation

Flush installation





Connection diagram

Cd-007

