



Datasheet

RS Stock No: 164-6098

Inductive Proximity Sensor





Detailed Technical data

Features

Housing	Cylindrical thread design
Housing	Standard
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range Sn	2.5 mm
Safe sensing range Sa	2.025 mm
Installation type	Non-flush Non-flush
Switching frequency	4,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	NPN
Output function	NO
Electrical wiring	DC 3-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 V ¹)
Current consumption	10 mA ²⁾
Time delay before availability	≤ 100 ms
Hysteresis	5 % 15 %
Reproducibility	≤ 2 % ^{3) 4)}
Temperature drift (of Sr)	± 10 %
EMC	According to EN 60947-5-2
Continuous current la	≤ 200 mA
Cable material	PVC
Conductor size	0.25 mm ²
Cable diameter	Ø 3.9 mm
Short-circuit protection	✓
Reverse polarity 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	Metal, Nickel-plated brass
Sensing face material	Plastic, PA 66
Housing length	52 mm
Thread length	30 mm
Tightening torque, max.	≤ 5 Nm
Items supplied	Mounting nut, brass, nickel-plated (2x)
UL File No.	NRKH.E181493
1)	

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
A	8 mm
В	16 mm
С	8 mm
D	7.5 mm
Е	6 mm
F	20 mm

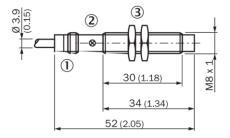
²⁾ Without load.

³⁾ Ub and Ta constant.

⁴⁾ Of Sr.

Dimensional drawing (Dimensions in mm (inch)

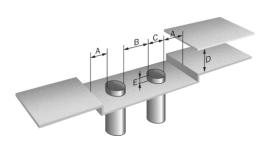
IME08 Standard, cable, non-flush

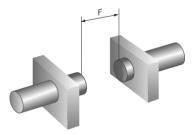


- 1. Connection
- 2. Indication LED
- 3. Fastening nuts (2x); width across 13, metal

Installation

Non-flush installation





Connection diagram

Cd-001

