



Datasheet RS PRO INDUCTIVE PROXIMITY SENSORS

Stock No: 2066178



INDUCTIVE PROXIMITY SENSORS





Detailed technical data

Features

Housing	Rectangular
Housing	Short-body
Dimensions (W x H x D)	40 mm x 40 mm x 66 mm
Sensing range Sn	20 mm
Safe sensing range S₁	16.2 mm
Installation type	Flush
Switching frequency	150 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67, IP68, IP69K
Special applications	Difficult application conditions

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	\leq 10 V _{pp} 1)
Voltage drop	≤2 V
Current consumption	20 mA 2)
Time delay before availability	≤ 50 ms
Hysteresis	3 % 15 % 3)
Reproducibility	≤2%
Temperature drift (of Sr)	±10%
Continuous current Ia	≤ 200 mA
Short-circuit protection	\checkmark
Reverse polarity protection	\checkmark







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Power-up pulse protection	\checkmark
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	−25 °C +85 °C
Ambient storage temperature	-40 °C +85 °C
Housing material	Plastic, PA 66
Sensing face material	Plastic, PA 66
Tightening torque, max.	1.8 Nm
Items supplied	Push-lock mounting system (1x)
Protection class	ll 4)
UL File No.	E348498
1) Of Ub.	

- 2) Without load.
- 3) Of Sr.

4) Reference voltage: 50 V DC.

Safety-related parameters

MTTFD	1,406 years
DCavg	0%

Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.71
Aluminum (Al)	Approx. 0.3
Copper (Cu)	Approx. 0.25
Brass (Br)	Approx. 0.36

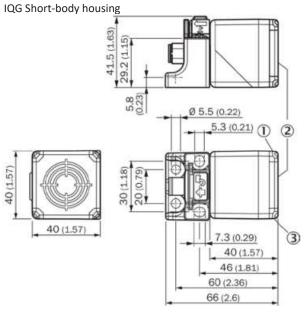
Installation note

Remark	Associated graphic see "Installation"
A	0 mm
В	40 mm
C	40 mm
D	60 mm
E	0 mm
F	70 mm





Dimensional drawing (Dimensions in mm (inch))

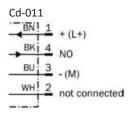


1 LED output state, yellow

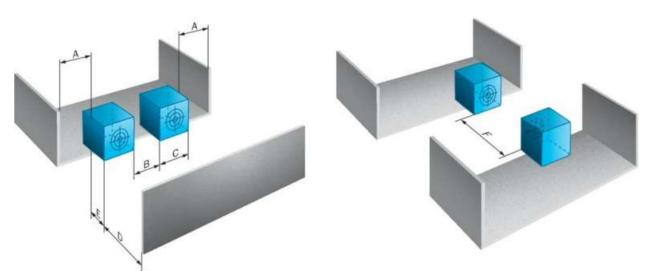
2 Sensing face

3 Operational status LED, green

Connection diagram



Instruction for installation







Operating reserve

