



Datasheet RS PRO INDUCTIVE PROXIMITY SENSORS

Stock No: 2066130



INDUCTIVE PROXIMITY SENSORS



Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Standard
Thread size	M8 x 1
Diameter	Ø 8 mm
Sensing range Sn	2 mm
Safe sensing range S₁	1.62 mm
Installation type	Flush
Switching frequency	4,000 Hz
Connection type	Male connector M12, 4-pin 1)
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP68 2)
	IP69K 3)
Special features	Resistant against coolant lubricants, Visual adjustment indicator
Special applications	Zones with coolants and lubricants, Mobile machines, Difficult application conditions
1) With gold plated contact pins.	

2) According to EN 60529.
3) According to ISO 20653:2013-03.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC	
Ripple	≤ 10 %	
Voltage drop	$\leq 2 V 1$)	
Current consumption	10 mA 2)	
Hysteresis	3 % 20 %	SPR



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Depreducibility	
Reproducibility	$\leq 2 \% 3) 4)$
Temperature drift (of Sr)	±10%
EMC	According to EN 60947-5-2
Continuous current Ia	≤ 200 mA
Short-circuit protection	\checkmark
Reverse polarity protection	\checkmark
Power-up pulse protection	\checkmark
Shock and vibration resistance	100 g / 11 ms / 1000 cycles; 150 g / 1 Mio cycles; 10 Hz 55 Hz, 1 mm / 55 Hz 500 Hz / 15 g
Ambient operating temperature	-40 °C +100 °C
Housing material	Stainless steel V2A, DIN 1.4305 / AISI 303
Sensing face material	Plastic, LCP
Housing length	60 mm
Thread length	32 mm
Tightening torque, max.	Typ. 14 Nm 5)
Items supplied	Mounting nut, V2A stainless steel, with locking teeth (2x)
UL File No.	E181493
1) At I a max.	
2) Without load.	
3) Ub and Ta constant.	

4) Of Sr.

5) Valid if toothed side of nut is used.

Safety-related parameters

MTTFD	1,971 years
DCavg	0%

Reduction factors

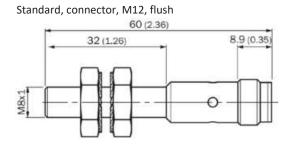
Note	The values are reference values which may vary
St37 steel (Fe)	1
Stainless steel (V2A, 304)	Approx. 0.74
Aluminum (Al)	Approx. 0.43
Copper (Cu)	Approx. 0.33
Brass (Br)	Approx. 0.46

Installation note

Remark	Associated graphic see "Installation"
В	6.5 mm
С	8 mm
D	6 mm
F	16 mm

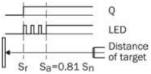


Dimensional drawing (Dimensions in mm (inch))

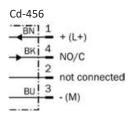


Adjustments

Installation aid



Connection diagram



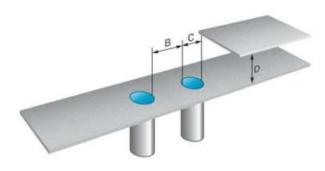
Instruction for installation

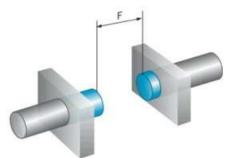
Flush installation





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Operating reserve

