



Datasheet

RS PRO INDUCTIVE PROXIMITY SENSORS

Stock No: 2066146











Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Standard
Thread size	M30 x 1.5
Diameter	Ø 30 mm
Sensing range Sn	15 mm
Safe sensing range Sa	12.15 mm
Installation type	Flush
Switching frequency	500 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	$\leq 2 \text{ V }_{1)}$
Current consumption	10 mA 2)
Hysteresis	3 % 20 %





≤ 2 % 3) 4)
± 10 %
According to EN 60947-5-2
≤ 200 mA
✓
✓
✓
100~g/2~ms/500 cycles; $150~g/1$ Mio cycles; $10~Hz$ $55~Hz/1~mm$; $55~Hz$ $500~Hz/60~g$
−40 °C +100 °C
Stainless steel V2A, DIN 1.4305 / AISI 303
Plastic, LCP
70 mm
52 mm
Typ. 100 Nm 5)
Mounting nut, V2A stainless steel, with locking teeth (2x)
II 6)
E181493

- 1) At Iamax.
- 2) Without load.
- 3) Ub and Ta constant.
- 4) Of Sr.
- 5) Valid if toothed side of nut is used.
- 6) Reference voltage DC 50 V.

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. 0.62
Aluminum (Al)	Approx. 0.26
Copper (Cu)	Approx. 0.17
Brass (Br)	Approx. 0.27

Installation note

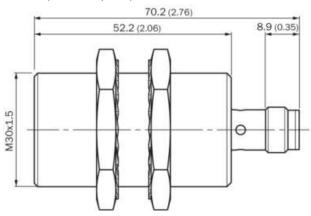
Remark	Associated graphic see "Installation"
В	40 mm
С	30 mm
D	45 mm
F	120 mm



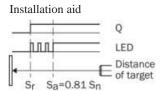


Dimensional drawing (Dimensions in mm (inch))

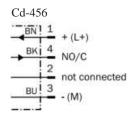
Standard, connector, M12, flush



Adjustments



Connection diagram

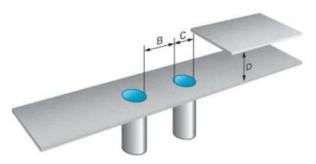


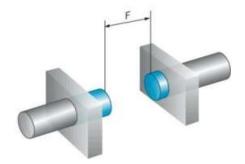




Instruction for installation

Flush installation





Operating reserve

Response diagram

Distance in mm (inch)

