



Datasheet

RS PRO INDUCTIVE PROXIMITY SENSORS

Stock No: 2066141











Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Short-body
Thread size	M18 x 1
Diameter	Ø 18 mm
Sensing range S _n	8 mm
Safe sensing range Sa	6.48 mm
Installation type	Quasi-flush 1)
Switching frequency	1,000 Hz
Connection type	Male connector M12, 4-pin 2)
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP683)
	IP69K 4)
Special features	Resistant against coolant lubricants, Visual adjustment indicator
Special applications	Zones with coolants and lubricants, Mobile machines, Difficult application conditions

- 1) When installed in conductive materials, the sensors must protrude by distance E ($E=2\,\text{mm}$).
- 2) With gold plated contact pins.
- 3) According to EN 60529.
- 4) According to ISO 20653:2013-03.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤10 %
Voltage drop	$\leq 2 \text{ V} \text{ 1}$
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
45 mm
27 mm
Typ. 90 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

MTTF _D	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. 0.55
Aluminum (Al)	Approx. 0.24
Copper (Cu)	Approx. 0.19
Brass (Br)	Approx. 0.24

Installation note

Remark	Associated graphic see "Installation"
A	9 mm
В	18 mm
С	18 mm
D	24 mm
Е	2 mm

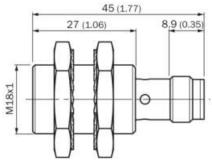




F 64 mm

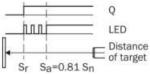
Dimensional drawing (Dimensions in mm (inch))

Short-body housing, connector M12, flush



Adjustments





Connection diagram

Instruction for installation

Quasi-flush installation





Operating reserve

Response diagram

Distance in mm (inch)

