



Datasheet

RS PRO INDUCTIVE PROXIMITY SENSORS

Stock No: 2066145











Detailed technical data

Features

Housing	Cylindrical thread design
Housing	Short-body
Thread size	M30 x 1.5
Diameter	Ø 30 mm
Sensing range S _n	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 %





Reproducibility	≤ 2 % 3) 4)
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current Ia	≤ 200 mA
Short-circuit protection	✓
Reverse polarity protection	✓
Power-up pulse protection	✓
Shock and vibration resistance	100~g / $2~ms$ / $500~cycles;150~g$ / $1~Mio~cycles;10~Hz$ $55~Hz$ / $1~mm;55~Hz$ $500~Hz$ / $60~g$
Ambient operating temperature	−40 °C +100 °C
Housing material	Stainless steel V2A, DIN 1.4305 / AISI 303
Sensing face material	Plastic, LCP
Housing length	50 mm
Thread length	32 mm
Tightening torque, max.	Typ. 100 Nm 5)
Items supplied	Mounting nut, V2A stainless steel, with locking teeth (2x)
Protection class	II 6)
UL File No.	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

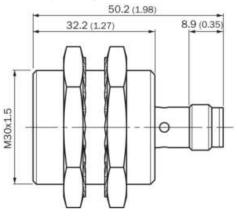
Remark	Associated graphic see "Installation"
В	40 mm
C	30 mm
D	45 mm
F	120 mm





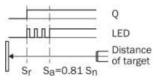
Dimensional drawing (Dimensions in mm (inch))

Short-body housing, connector M12, flush



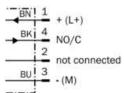
Adjustments

Installation aid



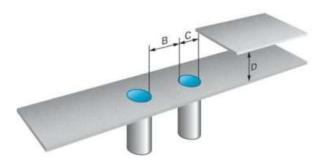
Connection diagram

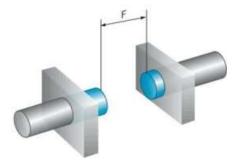
Cd-456



Instruction for installation

Flush installation









Operating reserve

Response diagram

Distance in mm (inch)

