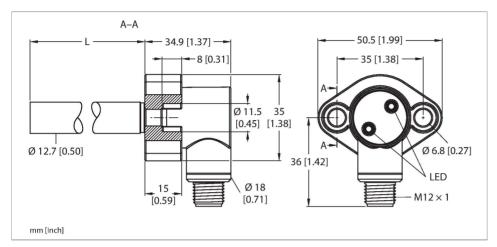


BI1.5-CRS260C-AP6X2-H1141 Inductive Sensor – For High Pressures





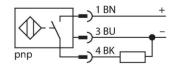
General data Rated switching distance 1. Mounting conditions F	1.5 mm
Rated switching distance 1. Mounting conditions F	
Mounting conditions F	
	Flush
0	
Secured operating distance ≤	(0.81 × Sn) mm
	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy ≤	≤ 2 % of full scale
Static pressure ≤	≨ 310 bar
Dynamic pressure ≤	≤ 206 bar
Permissible contact medium el	electrically conductive
Hysteresis 3.	315 %
Electrical data	
Operating voltage U _B	030 VDC
Ripple U _{ss} ≤	≤ 10 % U _{Bmax}
DC rated operating current I _e ≤	≤ 200 mA
No-load current ≤	≤ 15 mA
Residual current ≤	≤ 0.1 mA
Isolation test voltage 0.).5 kV
Short-circuit protection ye	ves/Cyclic
Voltage drop at I _e ≤	≤ 1.8 V
Wire break/reverse polarity protection ye	ves/Complete
Output function 3-	B-wire, NO contact, PNP



Features

- Smooth barrel, stainless steel, 1.4305
- ■Ø 12.7 mm
- Housing, GD-Zn, chromated
- Special high pressure seal and active ceramic surface
- Permissible dynamic pressure 206 bar; static overpressure 310 bar
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■M12 x 1 male connector

Wiring diagram





Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a high-frequency electromagnetic AC field that interacts with the target. The sensors hosting a ferrite core coil generate the AC field through an LC resonant circuit.

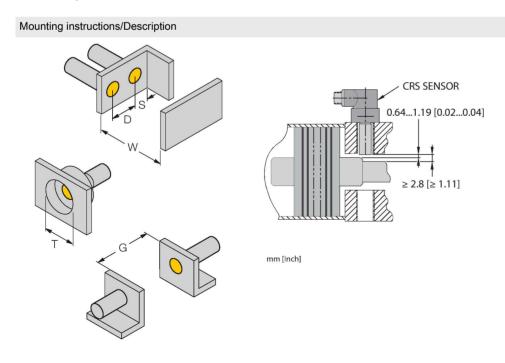


Technical data

Switching frequency 0.03 kHz Mechanical data Design Smooth barrel, 12.7 mm Probe length 26 mm, probe length x Housing material Metal, 1.4305 (AISI 303) Ceramic Active area material Connector housing metal, GdZn, chromated Tightening torque fixing screw 7.3 Nm Electrical connection Connector, M12 × 1 **Environmental conditions** Ambient temperature -25...+70 °C Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) IP67 Protection class Power-on indication LED, Green Switching state LED. Yellow 2 x socket head screw 1/4"-20 NPT, 5/8" Included in delivery long

Pressure-resistant inductive sensors withstand high pressures which makes them perfectly suited for position control in hydraulic cylinders.

Mounting instructions



		irved
Distance D	2 x B	rese
Distance W	3 x Sn	_ naes
Distance T	3 x B	_ cha
Distance S	1.5 x B	nica
Distance G	6 x Sn	tech
Diameter active area B	Ø 12.7 mm	4-31
static and dynamic pre application is pressure surface must also be of Ensure that the mount of dust during installat that oil can be displace system when the sens in which case the mou moistened. Should this not be established.	sor are approved for high essure. To ensure that the e-resistant, the mounting designed accordingly. ting surface is dry and fretion. Please also considered from the hydraulic sor probe is introduced, unting surface will be as occur, a proper seal will ances:	AP6X2-H11411 0



>2.8 mm to the hydraulic cylinder piston rod to ensure that the sensor output switches off.