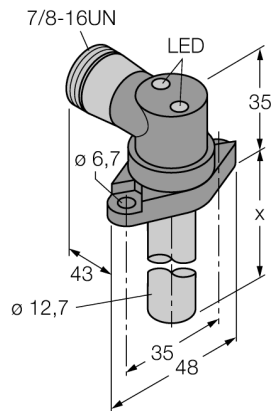


# Inductive sensor

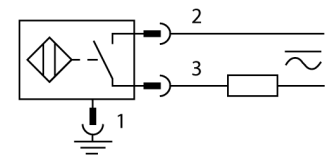
## For high pressures

### BI2-CRS524-ADZ30X2-B1131/S34



- Smooth barrel, stainless steel, 1.4305
- Ø 12.7 mm
- Housing, GD-Zn, chromated
- Admissible pressure static/dynamic 200/100 bar
- Magnetic field immune (insensitive to magnetic DC and AC fields)
- AC 2-wire, 20...250 VDC
- DC 2-wire, 10...300 VDC
- NO contact
- 7/8" male connector

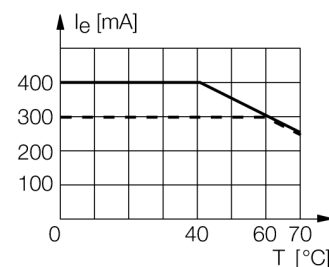
#### Wiring Diagram



#### 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.

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



<b>Type designation</b>	BI2-CRS524-ADZ30X2-B1131/S34
Ident-No.	4272093
Ident-No (TUSA)	T4272093
<b>Rated switching distance S<sub>n</sub></b>	2 mm
Mounting conditions	Flush
Secured operating distance	≤ (0,81 x S <sub>n</sub> ) mm
Correction factors	St37 = 1; Al = 0.3; stainless steel = 0.7; Ms = 0.4
Repeat accuracy	≤ 2 % of full scale
Static pressure	≤ 200 bar
Dynamic pressure	≤ 100 bar
Admissible contact medium	electrically conductive
Temperature drift	≤ ± 10 %
Hysteresis	3...15 %
Ambient temperature	-25...+70 °C
<b>Operating voltage</b>	20...250VAC
Operating voltage	10...300 VDC
AC rated operational current	≤ 400 mA
DC rated operational current	≤ 300 mA
Frequency	≥ 50...≤ 60 Hz
Residual current	≤ 1.7 mA
Isolation test voltage	≤ 1.5 kV
Surge current	≤ 3 A (≤ 20 ms max. 5 Hz)
Short-circuit protection	yes/ Latching
Voltage drop at I <sub>e</sub>	≤ 6 V
Wire breakage/Reverse polarity protection	yes/ Complete
Output function	2-wire, NO contact
Smallest operating current I <sub>m</sub>	≥ 3 mA
Switching frequency	0.02 kHz
<b>Design</b>	Smooth barrel, 12.7 mm
Probe length	52.4 mm, probe length x
Housing material	Metal, 1.4305 (AISI303)
Active area material	Plastic, PA12-GF30
Connector housing	metal, GdZn, chromated
Electrical connection	Connector, 7/8"
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
<b>Power-on indication</b>	LED green
Switching state	LED red

