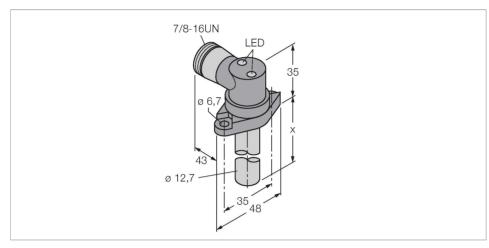


# BI2-CRS476-ADZ30X2-B1131/S34 Inductive sensor - For high pressures



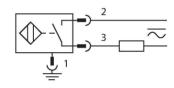
#### Technical data

Туре	BI2-CRS476-ADZ30X2-B1131/S34
Ident. no.	4271693
Special version	S34 = Weld-field immune proximity sensors
Rated switching distance	2 mm
Mounting conditions	Flush
Secured operating distance	≤ (0,81 x Sn) mm
Correction factors	St37 = 1; AI = 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	315 %
Ambient temperature	-25+70 ℃
Operating voltage	20250 VAC
Operating voltage	10300 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	≤ 6 V

#### **Features**

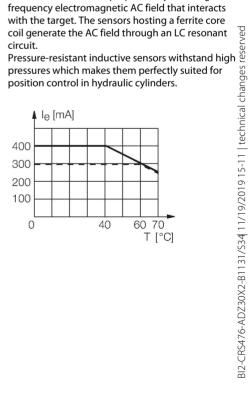
- Smooth barrel, stainless steel, 1.4305
- Ø 12.7 mm
- Housing, GD-Zn, chromated
- Admissible pressure static/dynamic 200/100 bar
- Magnetic field immune (insensitive to magnetic DC and AC fields)
- AC 2-wire, 20...250 VDC
- DC 2-wire, 10...300 VDC
- NO contact
- 7/8" male connector

## Wiring diagram



## Functional principle

Inductive sensors detect metal objects contactless and wear-free. For this purpose they use a highfrequency electromagnetic AC field that interacts with the target. The sensors hosting a ferrite core



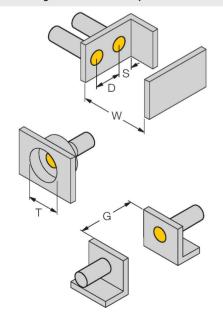


#### Technical data

Wire breakage/Reverse polarity protection	yes / Complete
Output function	2-wire, NO contact
Smallest operating current	≥ 3 mA
Switching frequency	0.02 kHz
Design	Smooth barrel,12.7 mm
Probe length	47.6 mm, probe length x
Housing material	Metal, 1.4305 (AISI303)
Active area material	Plastic, PA12-GF30
Connector housing	metal, GdZn, chromated
Tightening torque fixing screw	7.3 Nm
Electrical connection	Connector, 7/8"
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Power-on indication	LED,Green
Switching state	LED, Red
Included in delivery	2 x socket head screw 1/4"-20 NPT, 5/8" long

# Mounting instructions

#### Mounting instructions/Description



Distance D	2 x B
5:. 111	
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Diameter active area B	Ø 12.7 mm
dynamic pressure. To ensure stressure-resistant, the mode designed accordingly. Ensure that the mounting of dust during installation when the sensor probe is the mounting surface will this occur, a proper seal we secommended clearance.	surface is dry and free . Please also consider rom the hydraulic system introduced, in which case be moistened. Should vill not be established.