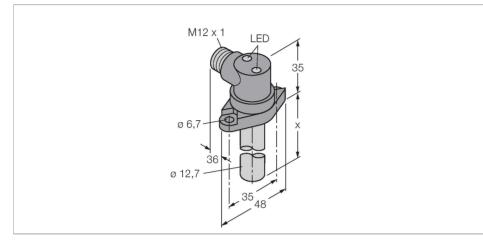


# BI2-CRS260-AP4X2-H1141/S34 Inductive Sensor – For High Pressures



#### Technical data

Туре	BI2-CRS260-AP4X2-H1141/S34
ID	4570890
Special version	S34 Corresponds to:Weld-field immune proximity sensors
General data	
Rated switching distance	2 mm
Mounting conditions	Flush
Secured operating distance	≤ (0.81 × 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
Permissible contact medium	electrically conductive
Temperature drift	≤ ±10 %
Hysteresis	315 %
Electrical data	
Operating voltage U <sub>B</sub>	1065 VDC
	≤ 10 % U <sub>Bmax</sub>
DC rated operating current I.	≤ 200 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I	≤ 1.8 V



## Features

Smooth barrel, stainless steel, 1.4305		
Housing, GD-Zn, chromated		
Admissible pressure static/dynamic 200/100 bar		
Magnetic-resistant (insensitive to magnetic DC and AC fields)		
DC 3-wire, 1065 VDC		
NO contact, PNP output		
Wiring diagram		
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3 BU ( • • • • 1 BN		
4 BK		
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Functional principle		
Inductive sensors detect metal objects		
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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.

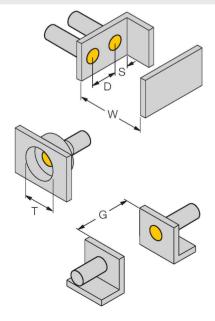


## **Technical data**

Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, PNP
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)
Active area material	Plastic, PA12-GF30
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)
Protection class	IP67
Power-on indication	LED, Green
Switching state	LED, Yellow
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
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

 Distance D
 2 x B

 Distance W
 3 x Sn

 Distance T
 3 x B

 Distance S
 1.5 x B

 Distance G
 6 x Sn

 Diameter active
 Ø 12.7 mm

 area B
 The mounting receptacle and the O-ring

 Supplied with the sensor are approved for high

 static and dynamic pressure. To ensure that the

 application is pressure-resistant, the mounting

 supplied with the sensor probe is introduced,

 in which case the mounting surface will be

 moistened. Should this occur, a proper seal will

 not be established.

 Recommended clearances:

Recommended clearances:

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



0.64...1.19 mm to the hydraulic cylinder end position buffers being detected to allow for tolerances and wear.

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

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