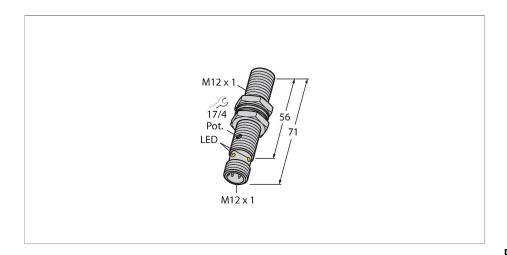
# BC3-M12-AP6X-H1141 Capacitive Sensor





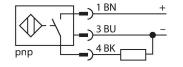
Туре	BC3-M12-AP6X-H1141
ID	2601011
Rated switching distance (flush)	3 mm
Rated switching distance (non-flush)	3 mm
Secured operating distance	≤ (0.72 × Sn)
Hysteresis	120 %
Temperature drift	type 20 %
Repeat accuracy	≤ 2 % of full scale
Ambient temperature	-25+70 °C
Electrical data	
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U <sub>ss</sub>
DC rated operational current	≤ 200 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Switching frequency	0.1 kHz
Isolation test voltage	≤ 0.5 kV
Output function	3-wire, NO contact, PNP
Short-circuit protection	yes / Cyclic
Voltage drop at I <sub>e</sub>	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Tests/approvals	
Approvals	UL
UL registration number	E210608
Mechanical data	
Design	Threaded barrel, M12 × 1

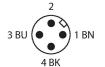


#### Features

- ■M12 × 1 threaded barrel
- Chrome-plated brass
- Fine adjustment via potentiometer
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- ■M12 × 1 connector

#### Wiring diagram





## Functional principle

Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as non-conductive metal objects.

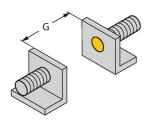


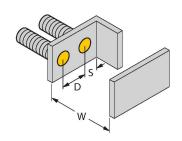
#### Technical data

Dimensions	71 mm
Housing material	Metal, CuZn, Chrome-plated
Active area material	ABS
Admissible pressure on front cap	≤ 5 bar
Max. tightening torque of housing nut	10 Nm
Electrical connection	Connector, M12 × 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	1080 years acc. to SN 29500 (Ed. 99) 40 °C

### Mounting instructions

#### Product features



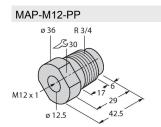


Distance D	24 mm
Distance W	9 mm
Distance S	18 mm
Distance G	18 mm
Diameter active area B	Ø 12 mm

The given minimum distances have been checked against the standard switching distance.

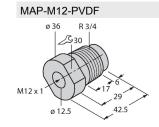
Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.

#### Accessories



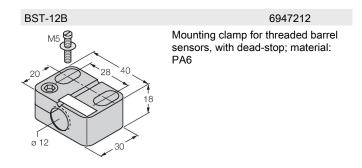
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Mounting adapter; material:
Polypropylene; sensor replacement
with filled container possible (adapter
remains in container during sensor
replacement)



Mounting adapter; material: Polyvenylidenflourid; sensor can be replaced with filled container (adapter remains in container during replacement)

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#### Accessories

