



1) Active surface 2) Housing 3) Top cover 4) Pot 5) LED function indicator

- Level Sensor
- PNP
- Normally open (NO)
- nichtbündig
- Cable, PTFE, 2.00 m

- media-dependent adjustable



IND. CONT. EQ. 81U2  
for use in the secondary of  
a class 2 source of supply



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**General attributes**

Approvals / Conformity

Basic standard  
Enclosure Type per IEC 60529  
Polarity reversal protected  
Scope of delivery  
Series  
Short circuit protected

CE  
cULus  
IEC 60947-5-2  
IP66/IP64 on cable output  
Yes  
2 nuts  
Level Sensor  
Yes

**Electrical attributes**

Connection type  
Eff. operating current I<sub>e</sub>  
Electrical version  
Operating voltage U<sub>B</sub> max. DC [V]  
Operating voltage U<sub>B</sub> min. DC [V]  
Rated insulation voltage U<sub>i</sub>  
Ripple max. (% of U<sub>e</sub>)  
Sensitivity  
Switching freq. f max. (at U<sub>e</sub>)  
Switching function  
Switching output  
Voltage drop static max.

Cable  
300 mA  
DC, direct current  
35.0 V  
10.0 V  
75 V DC  
10 %  
media-dependent adjustable  
2 Hz  
Normally open (NO)  
PNP  
1.8 V

**Mechanical attributes**

Ambient temperature T<sub>a</sub> max.  
Ambient temperature T<sub>a</sub> min.  
Cable jacket material  
Cable length L [m]  
Conductor cross-section  
Cover material  
Diameter d1  
Housing material  
Mech. installation condition  
Mounting length  
Number of conductors  
Sensing face material  
Tightening torque

60 °C  
-10 °C  
PTFE  
2.00 m  
0.20 mm<sup>2</sup>  
PTFE  
M18x1.0  
PTFE  
nichtbündig  
49.5 mm  
3  
PTFE  
0.5 Nm

**Additional text**

Application notes for water based media:

The Smart Level Sensors have been adjusted in the factory for standard applications. With this setting, the Smart Level Sensors are suitable for detecting water based liquids through glass or plastic walls without any further adjustment.

The factory setting can automatically mask out glass or plastic walls (approx. 0.5 mm to 6 mm), and compensates within wide limits for foam, moisture and material build up to the inside and outside of the tank concerned.

**Specialized applications:**

The Smart Level Sensors can also be used with water based liquids in hitherto insoluble and critical applications, e.g. with glass or plastic walls thicker than 6 mm. For this purpose, the factory setting can be altered by the user.

Capacitive Sensor

**BCS M18TTI2-PSCFAG-AT02**  
**BCS008A**

**BALLUFF**  
*sensors worldwide*

