

# Level Switches

## UNS1000 BN18

Level and temperature switch for monitoring hydraulic tanks („Power Packs“).

Modern hydraulic reservoirs have a high specific output volume that can result in high oil temperatures under load. Level and temperature monitoring is a unrenounceable safety factor for the complete plant.

### Features

For bulkhead unions G1/2" and M 20 x 1.5  
Compact Design

### Applications

OEM applications,  
Accessories for hydraulic reservoirs,  
Mineral oil applications



### Technical Data

<b>Materials:</b>	
Bulkhead union:	Brass
Contact tube:	Brass
Float stopper:	Bronze
Float:	foamed NBR
<b>System of protection:</b>	IP65
<b>Housing:</b>	---
<b>Process connection:</b>	
male thread:	G1/2" DIN ISO 228-1 = T1/2 M20 x 1.5 DIN 13
<b>Electrical connection:</b>	Plug M12 x 1, 4-pin, PA Plug DIN EN 175301-803-A (former DIN 43650), 4-pin, PA Cable gland, PA
<b>Electrical values:</b>	max. 24 V AC / DC max. 1 A max. 15 VA / W
<b>Operating temperature:</b>	-10 °C ... +90 °C (14 °F ... 194 °F)

<b>Operating pressure:</b>	max. 4 bar (400 kPa = 58 psi)
<b>Density:</b>	min. 0.64 g/cm <sup>3</sup>
<b>Depth of immersion at density 1:</b>	15 ±2 mm
<b>Temperatur switch:</b>	bimetal
....Temperature range:	10 K-steps +60 °C ... +90 °C (140 °F ... 194 °F)
Indexing tolerance:	±10 K
Differential gap:	30 ±15 K
Contact:	NC (the contact is closed at room temperature)
<b>Dual switch:</b>	
....Switching points:	Standard: 1 float for 1 switching point Dual: 1 float for 2 switching points
Distance L1 - L2:	min. 32 mm
Kind of contact, opt.:	acc. to ASAM (L1 = Pin 1+2 / L2 = Pin 1 + 4) only with M12 x 1
<b>Approval:</b>	---

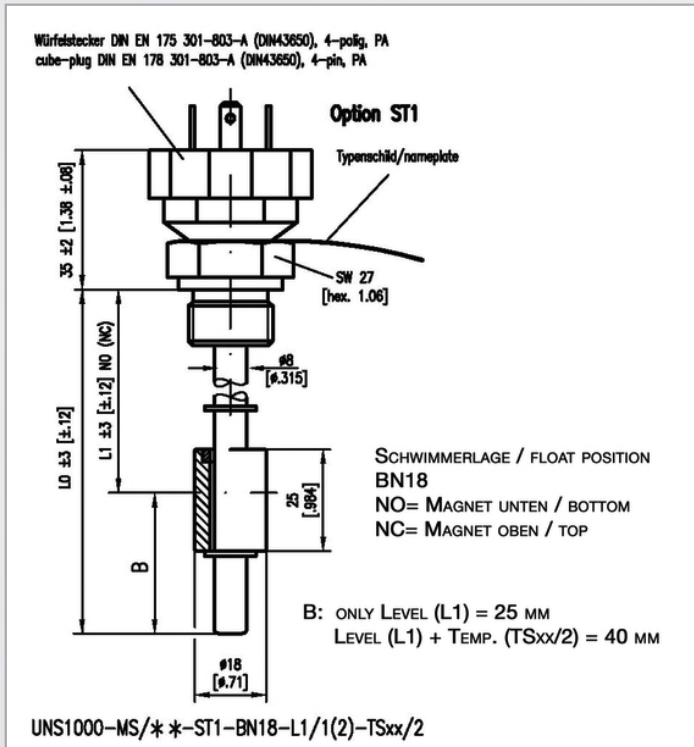
### Accessories

Order Number	Description
907-0013	ST1 socket acc. to DIN EN 175 301-803-A (former DIN 43650) with PG9 made from PA
907-0344	M12 x 1-socket (circular connector, straight) with PG9 made from PA

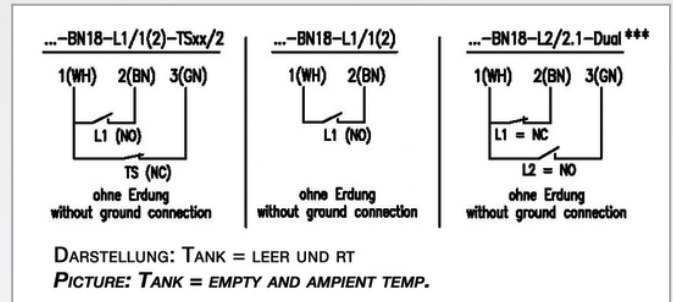
## Level Switches

### UNS1000 BN18

### Dimensions (mm / inch)



### Connection Diagram 1



### Order Code

Type:

UNS1000-MS/

#### Process Connection

M20x1,5

T1/2

#### Electrical Connection

-ST1  
-M12x1  
-PG

#### Float

-BN18

#### Switch Function

-L1/1 = Level only one switch point, NO  
-L1/2 = Level only one switch point, NC  
-L1/1 -TSxx/2  
-L1/2 -TSxx/2  
-L2/2.1 = Dual = one float with two switch points

UNS1000-MS/

T1/2

- ST1

- BN18

-L1/1(2)

-L0 = 475\*

= Example

\*Length (mm)  
L0 = max. 600  
length > 600 mm  
on request