

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

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

Operating pressure:	max. 4 bar (400 kPa = 58 psi)
Density:	min. 0.64 g/cm ³
Depth of immersion at density 1:	15 ±2 mm
Temperatur switch:	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)
Dual switch:	
....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
Approval:	---

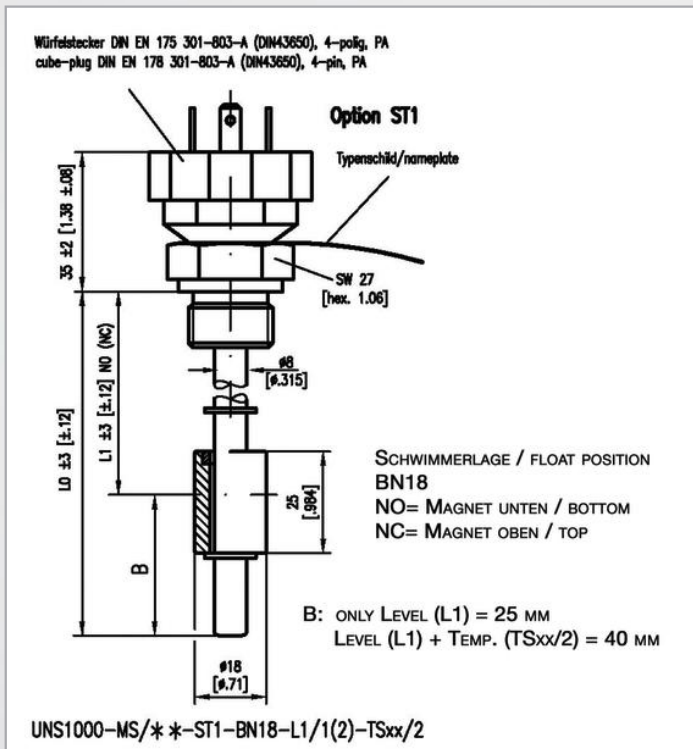
Accessories

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

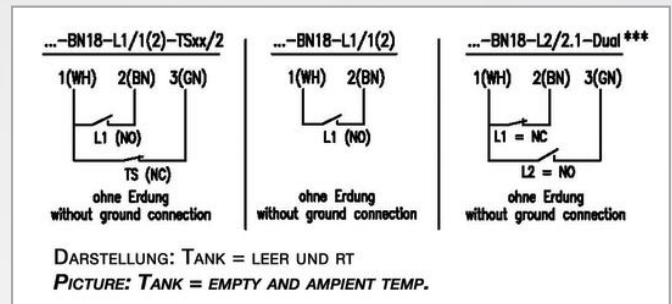
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Dimensions (mm / inch)



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