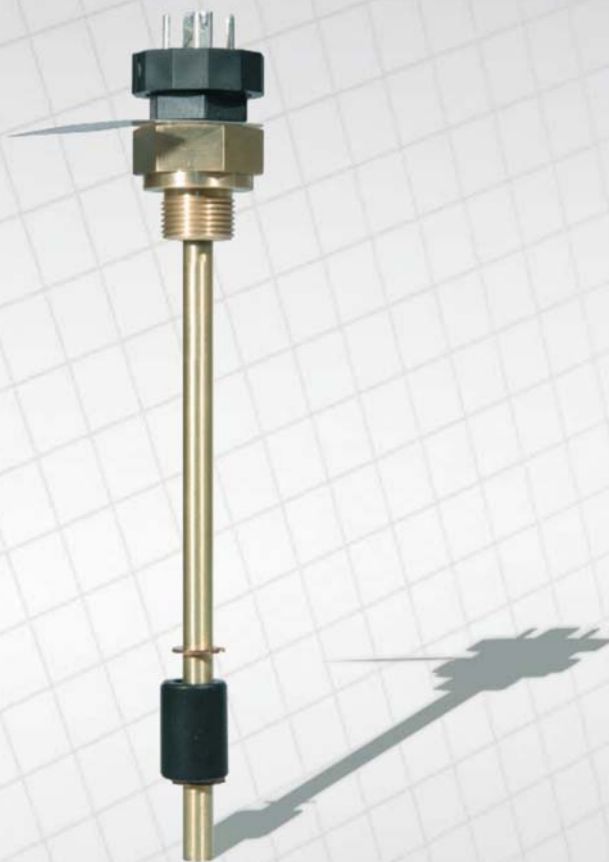


UNS1000-BN18

# UNS1000-BN18

Level switches

- ▶ Level
- ▶ Temperature



- ▶ Compact Design
- ▶ Level- and temperature monitoring
- ▶ Maximum length 600 mm

## Level switches

## Type 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 M12x1.5  
Compact Design

### Applications

OEM applications,  
Accessories for hydraulic reservoirs,  
Mineral oil applications

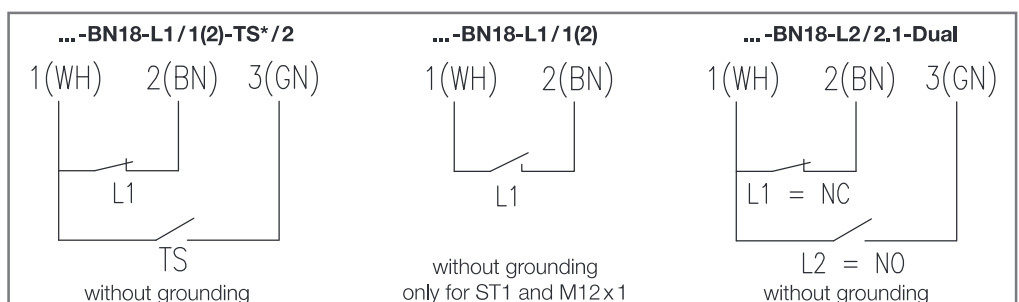
### Technical Data

|                               |                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------|
| <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<br>M20x1.5 DIN 13                                                             |
| <b>Electrical connection:</b> | Plug M12x1,<br>4-pin, PA<br>Plug DIN EN 175301-803-A<br>(former DIN 43650), 4-pin, PA<br>Cable gland, PA |
| <b>Electrical values:</b>     | max. 24 V AC/DC<br>max. 1 A<br>max. 20 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<br>(140 °F ... 194 °F)                                   |
| Indexing tolerance:                     | ±5 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<br>1 switching point<br>Dual: 1 float for<br>2 switching points |
| Distance L1 - L2:                       | min. 32 mm                                                                            |
| Kind of contact, opt.:                  | acc. to ASAM (L1 = Pin 1+2/<br>L2 = Pin 1+4) only with M12 x 1                        |
| <b>Approval:</b>                        | ---                                                                                   |

### Connection diagram

Optional: Contacts acc. to ASAM



### 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     | M12x1-socket (circular connector, straight) with PG9 made from PA                      |
| 902-0590     | Flat seal ring for T1/2 (ø26xø21x1 mm) made from TESNIT, -40 °C ... +150 °C, 15 bar    |
| 902-0591     | Flat seal ring for M20x1.5 (ø25xø20x1 mm) made from TESNIT, -40 °C ... +150 °C, 15 bar |

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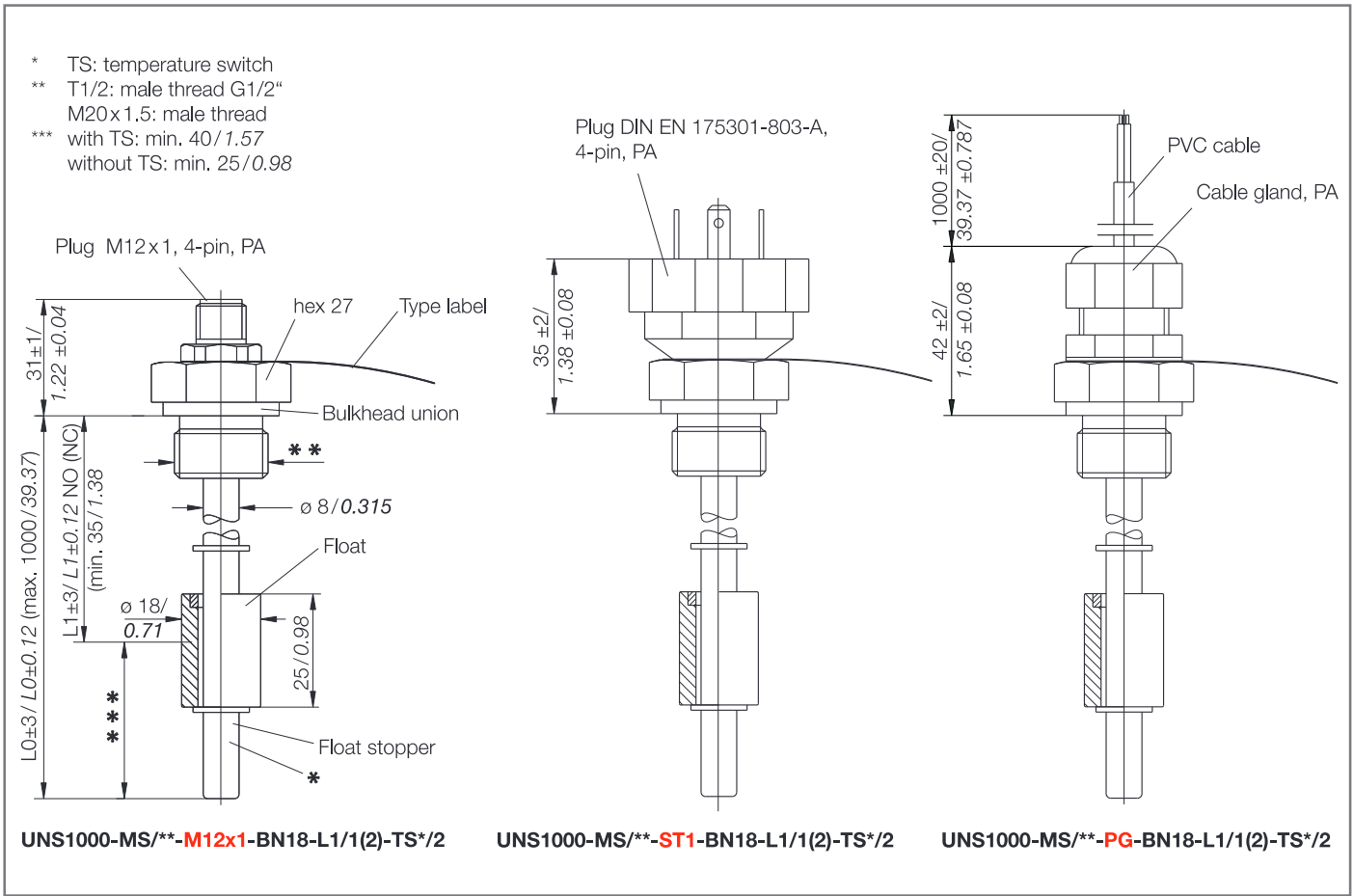
Specifications are subject to changes without notice.

**Level switches**

**Type UNS1000-BN18**

**Dimensions (in mm / inch)**

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**Order Numbers**

Further lengths and temperature switching points upon request

| Order No. | Article description<br>UNS1000-MS/...  | Length L <sub>0</sub><br>[mm] |          | Article description<br>UNS1000-MS/... | Length L <sub>0</sub><br>[mm] |
|-----------|----------------------------------------|-------------------------------|----------|---------------------------------------|-------------------------------|
| 0122-172  | ... M20x1.5-ST1-BN18-L1/1(2)-TS70/2    | 70 ... 400                    | 0122-190 | ... T1/2-ST1-BN18-L1/1(2)-TS70/2      | 70 ... 400                    |
| 0122-173  | ... M20x1.5-ST1-BN18-L1/1(2)-TS70/2    | 401 ... 600                   | 0122-191 | ... T1/2-ST1-BN18-L1/1(2)-TS70/2      | 401 ... 600                   |
| 0122-174  | ... M20x1.5-M12 x1-BN18-L1/1(2)-TS70/2 | 70 ... 400                    | 0122-192 | ... T1/2-M12 x1-BN18-L1/1(2)-TS70/2   | 70 ... 400                    |
| 0122-175  | ... M20x1.5-M12 x1-BN18-L1/1(2)-TS70/2 | 401 ... 600                   | 0122-193 | ... T1/2-M12 x1-BN18-L1/1(2)-TS70/2   | 401 ... 600                   |
| 0122-176  | ... M20x1.5-PG-BN18-L1/1(2)-TS70/2     | 70 ... 400                    | 0122-194 | ... T1/2-PG-BN18-L1/1(2)-TS70/2       | 70 ... 400                    |
| 0122-177  | ... M20x1.5-PG-BN18-L1/1(2)-TS70/2     | 401 ... 600                   | 0122-195 | ... T1/2-PG-BN18-L1/1(2)-TS70/2       | 401 ... 600                   |
| 0122-178  | ... M20x1.5-ST1-BN18-L1/1(2)           | 55 ... 400                    | 0122-196 | ... T1/2-ST1-BN18-L1/1(2)             | 55 ... 400                    |
| 0122-179  | ... M20x1.5-ST1-BN18-L1/1(2)           | 401 ... 600                   | 0122-197 | ... T1/2-ST1-BN18-L1/1(2)             | 401 ... 600                   |
| 0122-180  | ... M20x1.5-M12 x1-BN18-L1/1(2)        | 55 ... 400                    | 0122-198 | ... T1/2-M12 x1-BN18-L1/1(2)          | 55 ... 400                    |
| 0122-181  | ... M20x1.5-M12 x1-BN18-L1/1(2)        | 401 ... 600                   | 0122-199 | ... T1/2-M12 x1-BN18-L1/1(2)          | 401 ... 600                   |
| 0122-182  | ... M20x1.5-PG-BN18-L1/1(2)            | 55 ... 400                    | 0122-200 | ... T1/2-PG-BN18-L1/1(2)              | 55 ... 400                    |
| 0122-183  | ... M20x1.5-PG-BN18-L1/1(2)            | 401 ... 600                   | 0122-201 | ... T1/2-PG-BN18-L1/1(2)              | 401 ... 600                   |
| 0122-184  | ... M20x1.5-ST1-BN18-L2/2.1-Dual       | 55 ... 400                    | 0122-202 | ... T1/2-ST1-BN18-L2/2.1-Dual         | 55 ... 400                    |
| 0122-185  | ... M20x1.5-ST1-BN18-L2/2.1-Dual       | 401 ... 600                   | 0122-203 | ... T1/2-ST1-BN18-L2/2.1-Dual         | 401 ... 600                   |
| 0122-186  | ... M20x1.5-M12 x1-BN18-L2/2.1-Dual    | 55 ... 400                    | 0122-204 | ... T1/2-M12 x1-BN18-L2/2.1-Dual      | 55 ... 400                    |
| 0122-187  | ... M20x1.5-M12 x1-BN18-L2/2.1-Dual    | 401 ... 600                   | 0122-205 | ... T1/2-M12 x1-BN18-L2/2.1-Dual      | 401 ... 600                   |
| 0122-188  | ... M20x1.5-PG-BN18-L2/2.1-Dual        | 55 ... 400                    | 0122-206 | ... T1/2-PG-BN18-L2/2.1-Dual          | 55 ... 400                    |
| 0122-189  | ... M20x1.5-PG-BN18-L2/2.1-Dual        | 401 ... 600                   | 0122-207 | ... T1/2-PG-BN18-L2/2.1-Dual          | 401 ... 600                   |

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- ▶ Temperature
- ▶ Level
- ▶ Flow

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