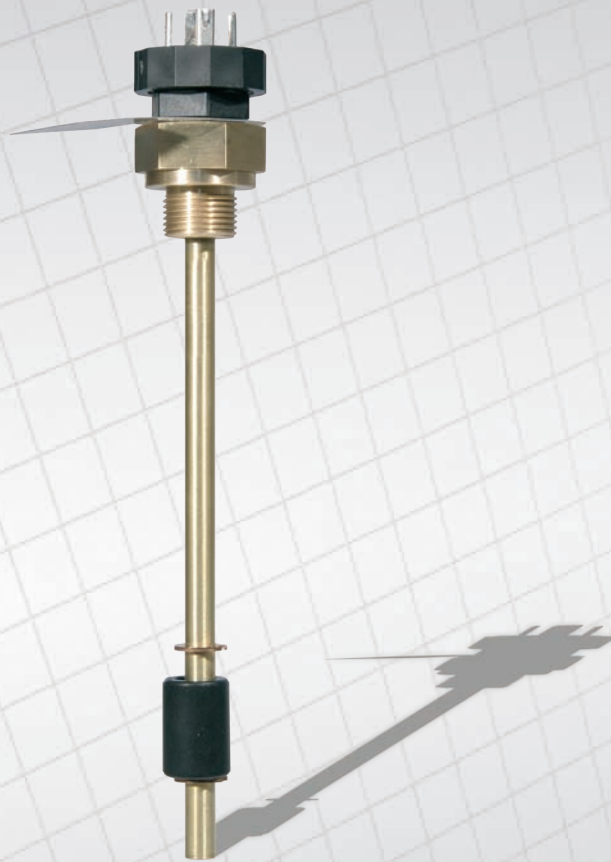


# UNS1000-BN18

## Level switches

- ▶ Level
- ▶ Temperature



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

**Barksdale**  
CONTROL PRODUCTS  
**CRANE** Barksdale, Inc./Barksdale GmbH  
A Subsidiary of Crane Co.

# 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, 4-pin, PA<br>Plug DIN EN 175301-803-A (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)   |

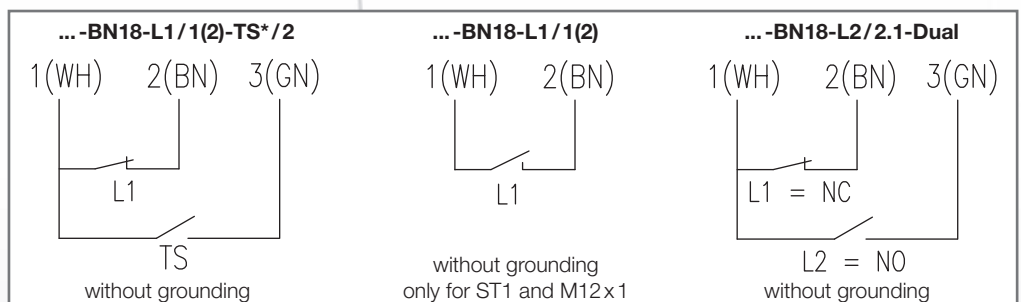
|   |   |
|---|---|
| <b>Operating pressure:</b>              | max. 4 bar (400 kPa=58 psi)   |
| <b>Density:</b>                         | min. 0.64 g/cm <sup>3</sup>   |
| <b>Depth of immersion at density 1:</b> | 15 ±2 mm  |
| <b>Temperatur switch:</b>               | bimetal   |
| Temperature range:                      | 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 1 switching point<br>Dual: 1 float for 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 M12x1                    |
| <b>Approval:</b>                        | ---   |



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### 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                |

Specifications are subject to changes without notice.

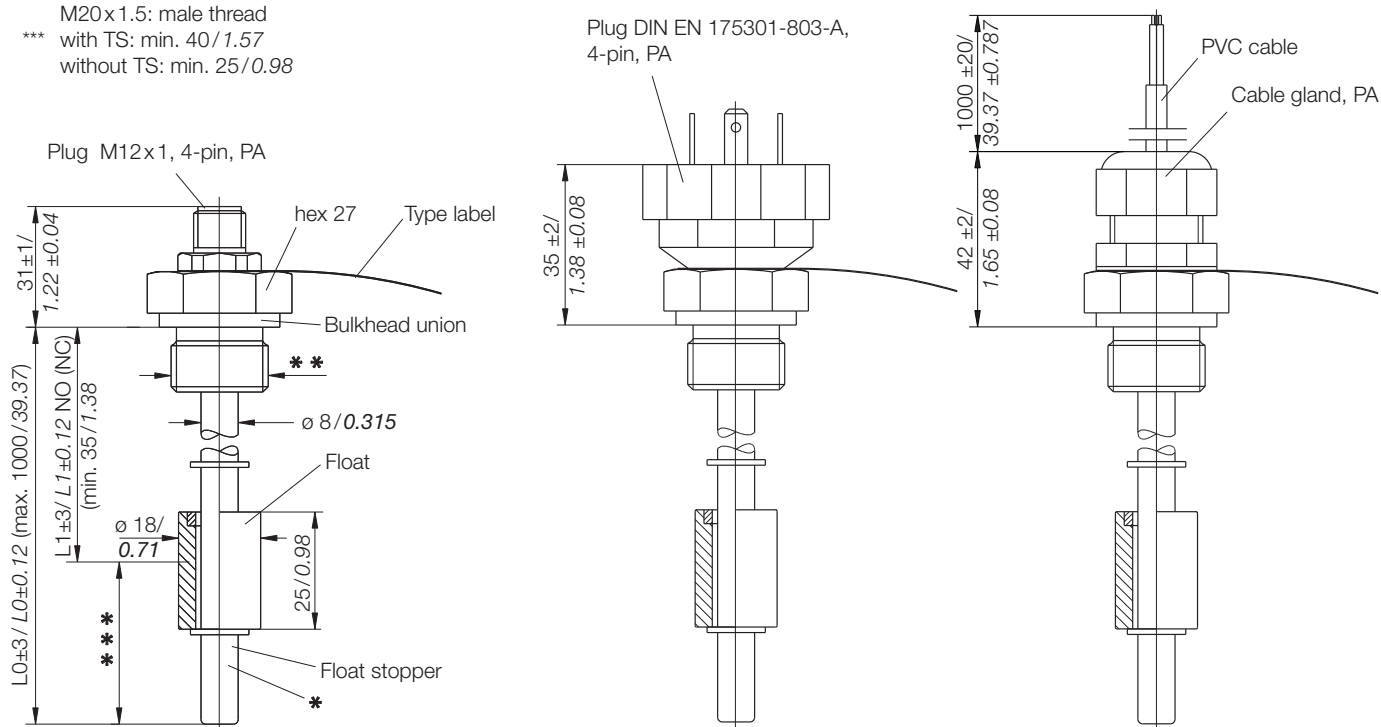
## Level switches

## Type UNS1000-BN18

### Dimensions (in mm / inch)

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- \* TS: temperature switch
- \*\* T1/2: male thread G1/2"
- M20x1.5: male thread
- \*\*\* with TS: min. 40/1.57
- without TS: min. 25/0.98



UNS1000-MS/\*\*-M12x1-BN18-L1/1(2)-TS\*/2

UNS1000-MS/\*\*-ST1-BN18-L1/1(2)-TS\*/2

UNS1000-MS/\*\*-PG-BN18-L1/1(2)-TS\*/2

### 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-M12x1-BN18-L1/1(2)-TS70/2 | 70 ... 400                    |  | 0122-192                              | ... T1/2-M12x1-BN18-L1/1(2)-TS70/2 | 70 ... 400  |
| 0122-175  | ... M20x1.5-M12x1-BN18-L1/1(2)-TS70/2 | 401 ... 600                   |  | 0122-193                              | ... T1/2-M12x1-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-M12x1-BN18-L1/1(2)        | 55 ... 400                    |  | 0122-198                              | ... T1/2-M12x1-BN18-L1/1(2)        | 55 ... 400  |
| 0122-181  | ... M20x1.5-M12x1-BN18-L1/1(2)        | 401 ... 600                   |  | 0122-199                              | ... T1/2-M12x1-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-M12x1-BN18-L2/2.1-Dual    | 55 ... 400                    |  | 0122-204                              | ... T1/2-M12x1-BN18-L2/2.1-Dual    | 55 ... 400  |
| 0122-187  | ... M20x1.5-M12x1-BN18-L2/2.1-Dual    | 401 ... 600                   |  | 0122-205                              | ... T1/2-M12x1-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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# Experts

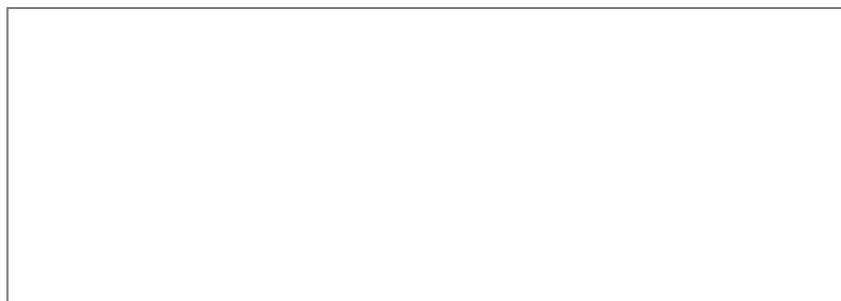
## Specialists for monitoring and control of:

- ▶ Pressure
- ▶ Temperature
- ▶ Level
- ▶ Flow

Almost sixty years of experience in the area of mechanical and electronic control of liquid media and responding to customers needs have resulted in an extensive range of products to meet a wide range of applications. Barksdale's priority is clear. It is our commitment to quality instrumentation and exceptional customer service that has remained the cornerstone of our success. Based on our innovative and market-focused technologies in the areas of pressure, level, flow and temperature measuring processes we provide solutions that fit.



## Global Presence



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