

Level switch NS OM-61



The level-switch NS OM-61 series has been designed for systems that require visual and electrical control of the liquid level. The magnet is placed in the visual indicator to avoid a magnet field close to the liquid hence the unit is perfectly suitable for the control of coolants contaminated with ferrous chips.

The liquid level is controlled by adjustable contacts. The integration of temperature controls is optional.

The interface with the tank top is by a flange according to DIN 24557 part 2.

Versions with analog signals for the continuous control of level and temperature are available upon request.

- **visual and electrical monitoring**
- **combined level and temperature control**
- **adjustable level contacts**
- **bistable level contacts = only one float**
- **high float sensitivity**
- **international standard flange dimensions**
- **easy installation**
- **maintenance free**

technical data

| | |
|------------------------|-----------------------------|
| operating pressure | max. 1 bar |
| operating temperature | max. 80 °C |
| spec. gravity of float | min. 0,8 kg/dm ³ |

material:

| | |
|--------------|---------|
| float SK 904 | hard PU |
| switch tube | brass |
| flange | PA 6 |

level contacts

| | K10 | W11 |
|--------------------------|----------|-------------|
| function | *NC / NO | change over |
| min. distance of contact | 40 mm | 40 mm |
| max. voltage | 230 V | 48 V |
| max. current | 0,5 A | 0,5 A |
| contact load | 10 VA | 20 VA |
| part-no | 1889999 | 1890999 |

* NC = normally closed / NO = normally open all figures at **empty reservoir**

temperature contacts

| | |
|--------------|----------|
| max. voltage | 240V |
| max. current | 2,5A |
| contact load | 100 VA |
| hysteresis | 10K ± 3K |

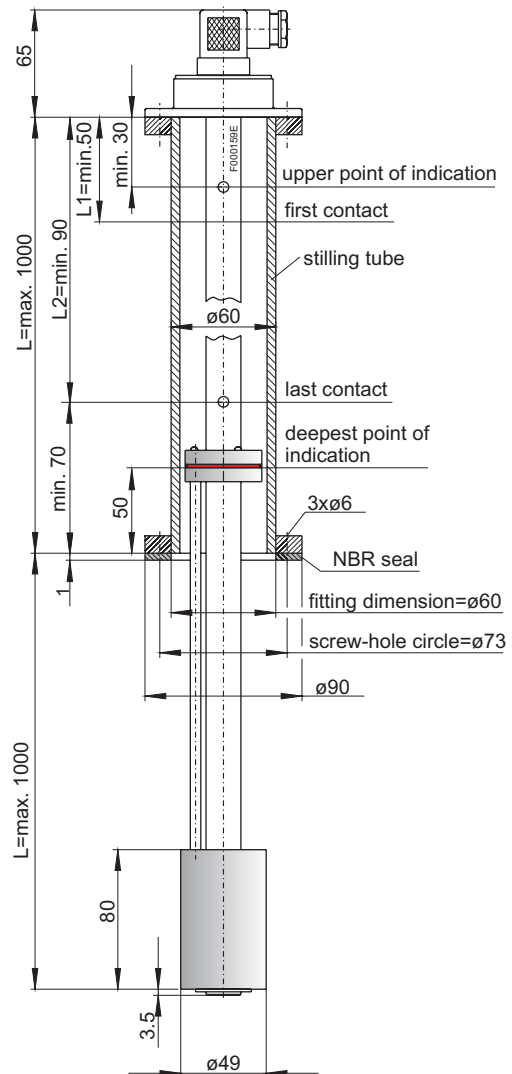
| switch point: | 50°C | TKÖ-50 | 1841899 | TKS-50 | 1866999 |
|---------------|------|--------|---------|--------|---------|
| | 60°C | TKÖ-60 | 1841999 | TKS-60 | 1842999 |
| | 70°C | TKÖ-70 | 1844999 | TKS-70 | 1845999 |
| | 80°C | TKÖ-80 | 1852099 | TKS-80 | 1867999 |

other settings upon request

* NC = normally closed / NO = normally open all figures at **rising temperature**

temperature sensor

| PT 100 | PTSMD |
|--------------------|-----------------------|
| tolerance ± 0,8° C | output signal 4-20 mA |
| part no. 1120012 | part no. 1870999 |



connectors

other connectors upon request

protection class
cable gland

max. no of contacts
level-/ temp.-contact
or

level contact only
or

max. voltage

| | M3 | S6 | M12 | 2x M12 | C6F |
|--|---|---|---|---|---|
| other connectors upon request | 3 pol. + PE DIN 43650 | 6 pol. + PE DIN 43651 | 4 pol. | 4 pol. / 4 pol. | 6 pol. + PE DIN 46651 |
| protection class cable gland | IP 65 PG 11 | IP 65 M20 x 1,5 | IP 67** PG 7** ** with plug fixed | IP 67** PG 7** ** with plug fixed | IP 65 PG 11 |
| max. no of contacts level-/ temp.-contact or | 1 x K10 / 1 x TK - / - | 3 x K10 / 1 x TK 1 x W11 / 1 x TK | 1 x K10 / 1 x TK - / - | 3 x K 10 / 1 x TK 1 x W11 / 1 x TK | 3 x K10 / 1 x TK 1 x W11 / 1 x TK |
| level contact only or | 2 x K10 1 x W11 | 4 x K10 2 x W11 | 2 x K10 1 x W11 | 4 x K10 2 x W11 | 4 x K10 2 x W11 |
| max. voltage | 230 V AC/DC 48 V with change over contact | 230 V AC/DC 48 V with change over contact | 24 V DC | 24 V DC | 230 V AC/DC 48 V with change over contact |

ordering information

part-no of basic version, **without contact**

| with connector | M3 | S6 | M12 | 2x M12 | C6F |
|----------------------------------|---------|---------|---------|---------|---------|
| L=variable Level switch NS OM-61 | 1082199 | 1082299 | 1082399 | 1082499 | 1082599 |

order example:

you need: length level contact L=580mm, 2 level contacts, first contact at NC with L1=100mm, second contact at NO with L2=500 mm

you order: 1082199 Level-switch NS OM-61-M3, L=580 , 2 x contact K10 (1889999) L1=100 NC, L2 = 500 NO