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Nivotemp 61-0 WW Buhler



The entrance of water into fluid power or lubrication systems significantly reduces the life of oil and causes damage to other components used in the systems.

The most reliable method of detecting water in oil is to measure the interface level between water and oil when the water is separated.

This Nivotemp version is equipped with an additional float which rises in water but sinks in oil.

The reservoir has to be equipped with a small cavity in the bottom and the contact tube of the Nivotemp reaches down to the lowest point of the cavity.

When a volume of approx. 230 ml of free water accumulates in the cavity the float will rise and actuate a contact. The signal can either be used to open a drain valve, drain the water off, or just to set an alarm.

An easily installed prefabricated sump is available as an accessory.

- **With water alarm function**
- **Reliable physical measuring system**
- **Easy installation**
- **Independent of oil chemistry**
- **Up to four adjustable level contacts**
- **Cable connector standard**

Technical Data

| | |
|-----------------------|------------------------------|
| Operating pressure | max. 1 bar |
| Operating temperature | max. 80 °C |
| Density of fluid | min. 0,8 kg/dm ³ |
| Density of oil | max. 0.86 kg/dm ³ |

Material:

| | |
|--------------------------------|----------------|
| Float SK 610 for level control | hard PU |
| Float WW for water alarm | PPH |
| Switch tube | brass |
| Flange | PA 6 |
| Weight | L=500 mm 750 g |

| Level contacts / water alarm contacts | K10 | W11 | - | K6 | W7 |
|---------------------------------------|----------|-------------|---|----------|-------------|
| Function | *NC / NO | change over | - | *NC / NO | change over |
| Distance of contact, min. | 40 mm | 40 mm | - | fixed | fixed |
| Max. voltage | 230 V | 48 V | - | 230 V | 230 V |
| Max. current | 0,5 A | 0,5 A | - | 1 A | 1 A |
| Contact load | 10 VA | 20 VA | - | 50 VA | 40 VA |

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

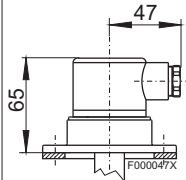
Connectors

(Other connectors upon request)

Protection class
Cable gland

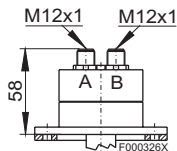
S6
6 pol. + PE
DIN 43651

IP 65
M20x1,5



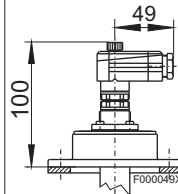
2xM12 (socket)
4 pol / 4 pol.

IP 67**
PG7**
**with plug fixed



C6F
6 pol. + PE
DIN 46651

IP 65
PG11



Max. no of contacts

or

or

or

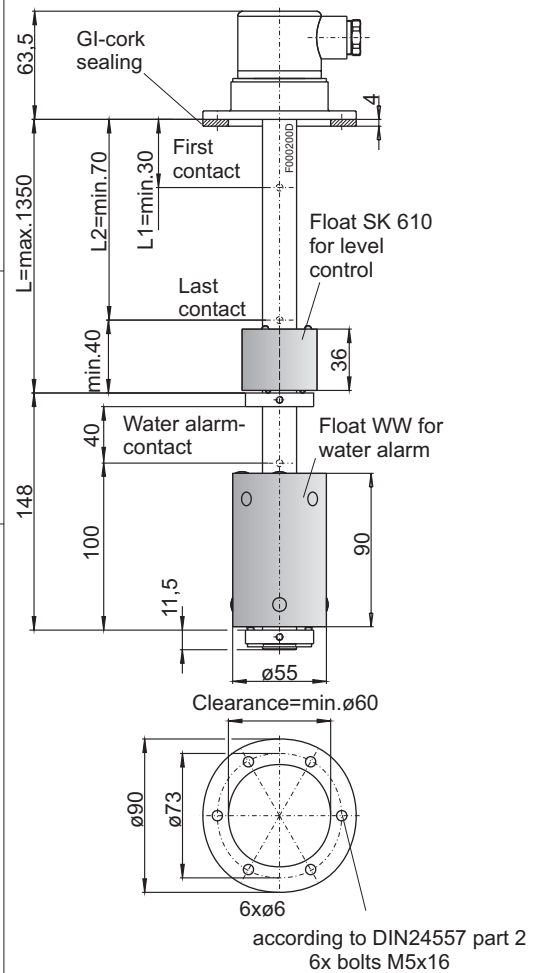
Max. voltage

4xK10 + 1xK6
2xW11 + 1xK6
3xK10 + 1xW7
1xW11 + 1xW7
230 V AC/DC
48 V with change over contacts

2xK10 + 1xK6
1xW11 + 1xK6
2xK10 + 1xW7
1xW11 + 1xW7
24 V DC

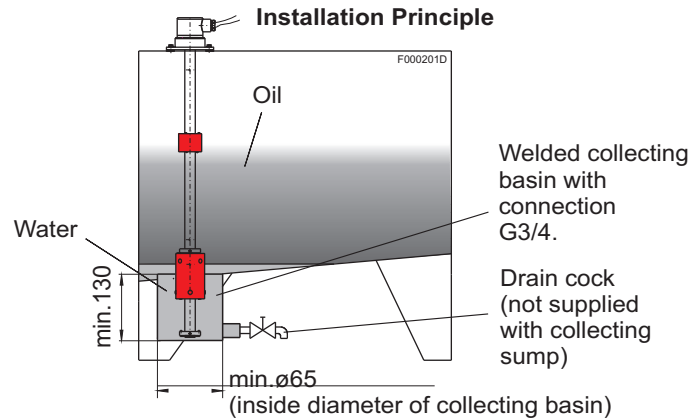
4xK10 + 1xK6
2xW11 + 1xK6
3xK10 + 1xW7
1xW11 + 1xW7
230 V AC/DC
48 V with change over contacts

Dimensions (mm)



Installation example

A small collecting basin is welded to the floor of the reservoir at the deepest appropriate point (see also installation principle). We recommend to use the prefab sump but you are free to provide a solution yourself. To make the unit effective the volume of the collecting basin should be as small as possible. Therefore please use the recommended dimensions.



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Ordering information

Basic version (without level- and water alarm contacts)

| Part-no. | Description | Connector | Length |
|-----------|--|-----------|------------------|
| 10 30 099 | Nivotemp 61-0-WW-S6-level contacts-water alarm contacts | S6 | L (max. 1350 mm) |
| 10 30 799 | Nivotemp 61-0-WW-2xM12-level contacts-water alarm contacts | 2xM12 | L (max. 1350 mm) |
| 10 30 899 | Nivotemp 61-0-WW-C6F-level contacts-water alarm contacts | C6F | L (max. 1350 mm) |

| Part-no. | Description | Number of contacts | Type | Length |
|-----------|------------------------|----------------------|-------------|-------------------|
| 18 89 999 | Level contact K10 | see table connectors | NC / NO | L1 (, L2, L3, L4) |
| 18 90 999 | Level contact W11 | see table connectors | change over | L1 (, L2, L3, L4) |
| 18 50 999 | Water alarm contact K6 | 1 | NC / NO | fixed |
| 18 49 999 | Water alarm contact W7 | 1 | change over | fixed |

Accessories:

10 30 0991 collecting sump (with connection G3/4, include plug), dimensions: $\varnothing 70/2,6$ x height=133mm

Example:

You need:

Nivotemp (Basic): Connector: type S6; length L= 580 mm,
 Level contacts: 1st contact 100 mm NC,
 2nd contact 500 mm NO,
 Water alarm contact: 1, normally closed (NC)

You order:

10 30 099 Nivotemp 61-0-WW-S6-2xK10-1xK6, L= 580
 18 89 999 2 x level contacts K10,
 L1=100 NC, L2 = 500 NO
 18 50 999 1 x water alarm contact K6, NC

We reserve the right to amend specifications.