Nivotemp 61-0-WW

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**

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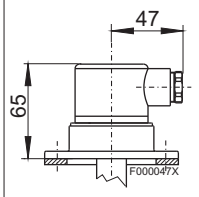
Technical Data

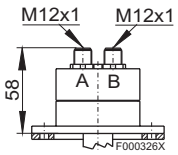
Operating pressure		max. 1 bar
Operating temperature		max. 80 °C
Density of fluid		min. 0,8 kg/dm³
Density of oil		max. 0.86 kg/dm³
Material:		
Float SK 610 for level control		hard PU
Float WW for water alarm		PPH
Switch tube		brass
Flange		PA 6
Weight	L=500 mm	750 g

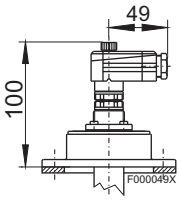
Level contacts / water alarm contacts	**K10** **-**	**W11** **-**	**-** **K6**	**-** **W7**
Function	*NC / NO	change over	*NC / NO	change over
Distance of contact, min.	40 mm	40 mm	fixed	fixed
Max. voltage	230 V	48 V	230 V	230 V
Max. current	0,5 A	0,5 A	1 A	1 A
Contact load	10 VA	20 VA	50 VA	40 VA

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

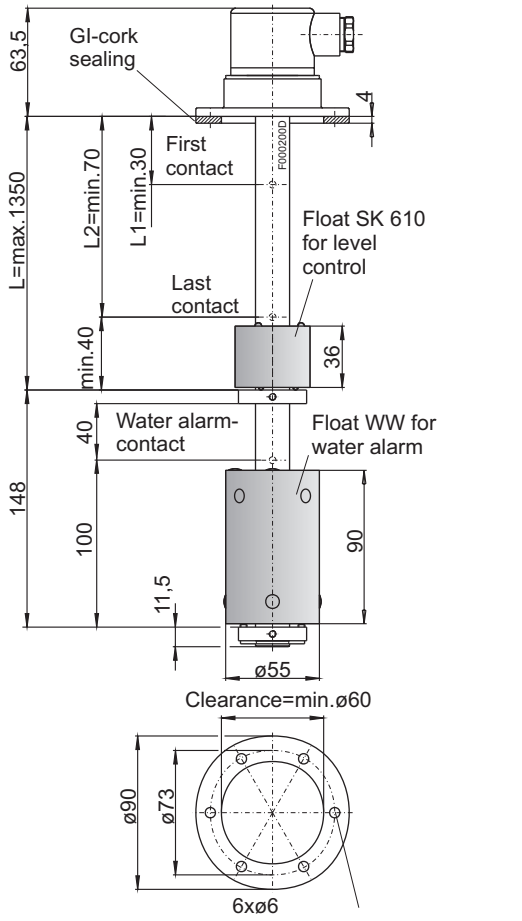
Connectors (Other connectors upon request)	**S6** 6 pol. + PE DIN 43651	**2xM12 (socket)** 4 pol / 4 pol.	**C6F** 6 pol. + PE DIN 46651
Protection class	IP 65	IP 67**	IP 65
Cable gland	M20x1,5	PG7** **with plug fixed	PG11
Max. no of contacts or or or	4xK10 + 1xK6 2xW11 + 1xK6 3xK10 + 1xW7 1xW11 + 1xW7	2xK10 + 1xK6 1xW11 + 1xK6 2xK10 + 1xW7 1xW11 + 1xW7	4xK10 + 1xK6 2xW11 + 1xK6 3xK10 + 1xW7 1xW11 + 1xW7
Max. voltage	230 V AC/DC 48 V with change over contacts	24 V DC	230 V AC/DC 48 V with change over contacts







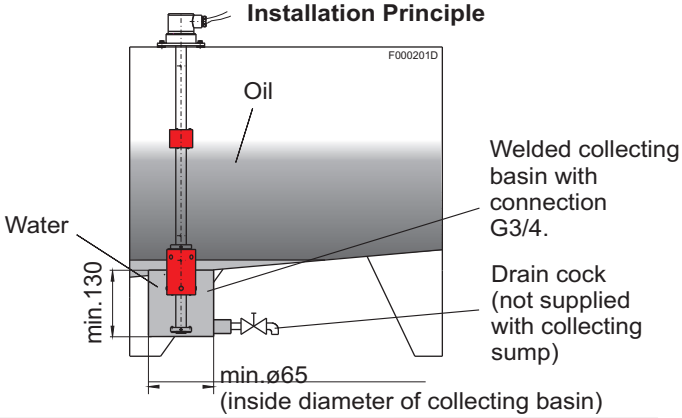
Dimensions (mm)



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.

Installation Principle



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

Acessories:

10 30 0991 collecting sump (with connection G3/4, include plug), dimensions: ø70/2,6 x height=133mm

Example:

You need:		You order:	
Nivotemp (Basic):	Connector: type S6; length L= 580 mm,	10 30 099	Nivotemp 61-0-WW-S6-2xK10-1xK6, L= 580
Level contacts:	1st contact 100 mm NC,	18 89 999	2 x level contacts K10,
	2nd contact 500 mm NO,		L1=100 NC, L2 = 500 NO
Water alarm contact:	1, normally closed (NC)	18 50 999	1 x water alarm contact K6, NC