

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



Technical Data

Operating pressure max. 1 bar max. 80 °C Operating temperature Density of fluid min. 0,8 kg/dm³ Density of oil max. 0.86 kg/dm³

Material:

Float SK 601 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 / K10 W11 water alarm contacts K6 **W7** *NC / NO *NC / NO change over **Function** change over Distance of contact, min. 40 mm 40 mm fixed fixed 230 V 230 V Max. voltage 230 V 48 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 / I	figures at empty reserv	oir	
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 Cable gland	IP 65 M20x1,5	IP 67** PG7** **with plug fixed	IP 65 PG11
	47 60 F000047X	M12x1 M12x1	9 00 F000049X
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

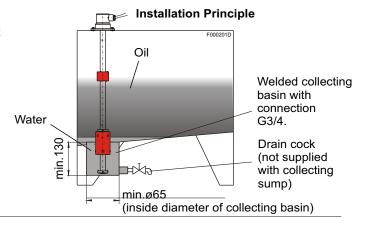
Dimensions (mm) 63,5 GI-cork sealing First L1=min.30 L2=min.70 contact .=max.1350 Float SK601 for level control Last min.40 36 Water alarm-Float WW for 4 contact water alarm 48 90 8 ď ø55 Clearance=min.ø60 ø73 90 8

6xø6

according to DIN24557 part 2 6x bolts M5x16

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.



Ordering information

Basic version (without level- and water alarm contacts)

Part-no.	Description	Connector	Lengtn
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)

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Part-no.	Description	Number of contacts	Туре	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: Nivotemp (Basic): Connector: type S6; length L= 580 mm,

1st contact 100 mm NC, 2nd contact 500 Level contacts:

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