

# Nivotemp 61-0-HT-Atex



The Nivotemp 61-0-Atex is suitable to control the liquid level and temperature in hydraulic and lubrication systems.

This unit is a simple apparatus without own voltage source. In an intrinsically safe installation acc. to EN 60079-14 the level switch can be used in hazardous locations zone 1 (cat. 3G). That applies also to the zone inside of the reservoir. For standard applications the temperature class is T4 at ambient temperatures -20 °C to +80 °C.

In addition to the dimensional and material advantages this version offers features such as adjustable level contacts, a variety of electrical connectors and bistable level contacts with various contact functions.

- **Atex - range of use: zone 1 (cat. 2G), intrinsically safe acc. to EN 50020**
- **operating temperatures up to 105 °C**
- **combined level and temperature control**
- **adjustable level contacts**
- **bistable level contacts = only one float**
- **international standard flange dimensions**
- **easy installation**
- **maintenance free**

## technical data

operating pressure	max. 1 bar
operating temperature	max. 105 °C
ambient temperature	-20°C to +80°C
spec. gravity of float	min. 0,8 kg/dm <sup>3</sup>

### material:

float SK 221	1.4571
switch tube	1.4571
flange	1.4571

level contacts	K10	W11
function	*NC / NO	change over
min. distance of contact	40 mm	40 mm
part-no	1889999	1890999

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

### temperature contacts

hysteresis	10 K ± 3 K				
switch point:		<b>NC*</b>	<b>part-no</b>	<b>NO*</b>	<b>part-no</b>
	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**

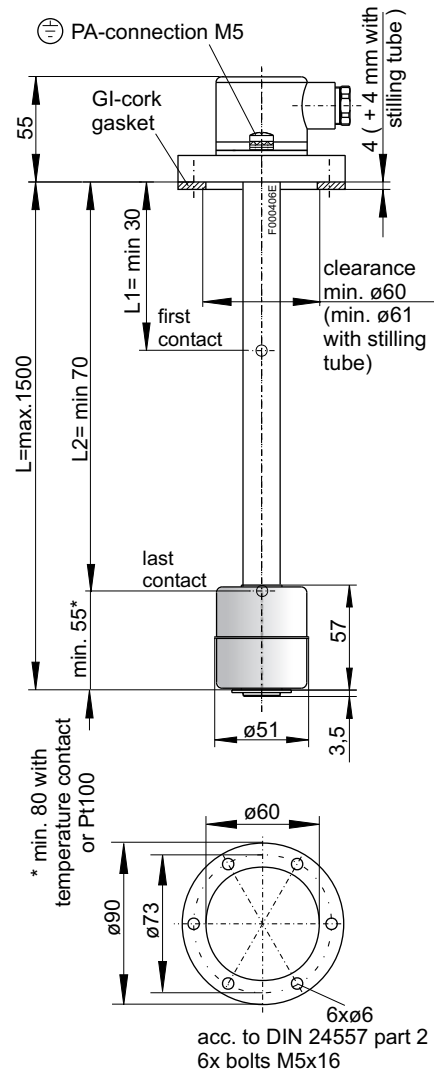
temperature sensor	supplies
Pt 100	stilling tube made from 1.4571
tolerance = ± 0,8° C	part-no : 106000501
Pi = 0,14 mW	connection plug M12x1 (5 pol.) 3,0 m
I <sub>max</sub> = 1 mA	part-no : 9144050018
part-no = 1120012	

**Ex-qualification:**  **II 2 G EEx ib IIB T4**

**L<sub>p</sub>, C<sub>i</sub> : negligible ; I<sub>max</sub> : 90 mA ; U<sub>max</sub> : 30 V (DC)**



**The level switches to be allowed only for intrinsically safe electric circuit !**



connectors	M3	S6	M12	controllers for level switch - Atex see data sheet DE18 0004
protection class cable gland	3 pol. + PE DIN 43650	6 pol. + PE DIN 43651 part 2	4 pol. + PE	
other connectors upon request	IP 65 PG 11	IP 65 M20 x 1,5	IP 67** PG 7** ** with plug fixed	
max. no of contacts level- and temp.-contact or	1 x K10 / 1 x TK - / -	3 x K10 / 1 x TK or Pt100 1 x W11 / 1 x TK or Pt100	1 x K10 / 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	

### ordering information

**part-no** of basic version , **without contacts** (for the part no. of level-, temperature contacts or Pt100 see above)

with connector	<b>M3</b>	<b>S6</b>	<b>M12</b>
L=variable Nivotemp 61-0-HT-Atex	10117499A	10107199A	10125899A

### order example:

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

you order:10117499A Nivotemp 61-0-HT-Atex-M3-L= 580 , 2 x contact K10 (1889999) L1=100 NC , L2 = 500 NO