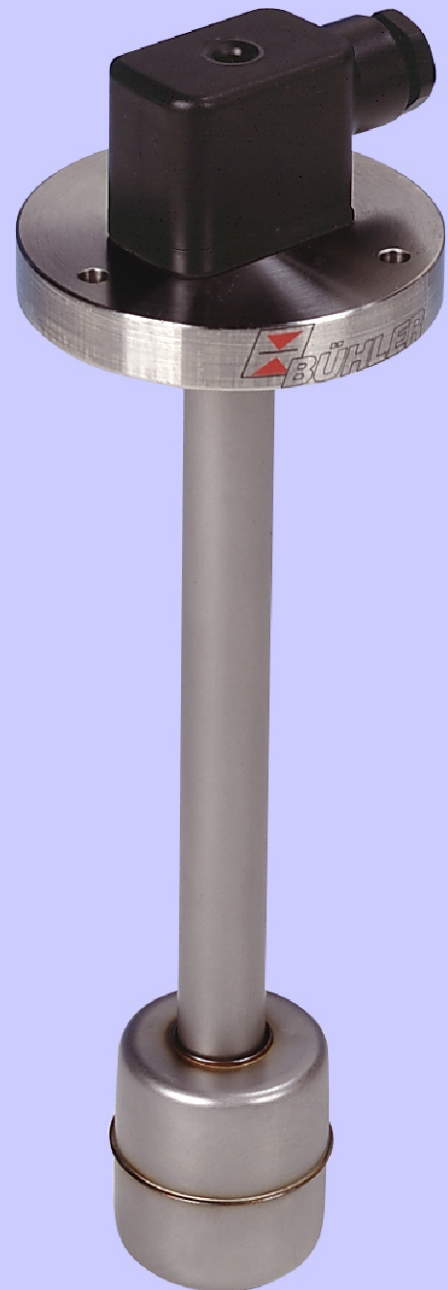




Level and temperature switch 61-HT-Atex

- 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
- Stainless steel cover
- Easy installation
- Maintenance free

Technical Data

Max. operating pressure	1 bar
Max. operating temperature	105 °C
Ambient temperature	-20°C to +80°C
Min. density of fluid	0.8 kg/dm ³

weight	
at L=280 mm	approx. 0,95 kg
plus per 100 mm	approx. 0,05 kg

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
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		NC*	Part-no	NO*	Part-no
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

Pt100

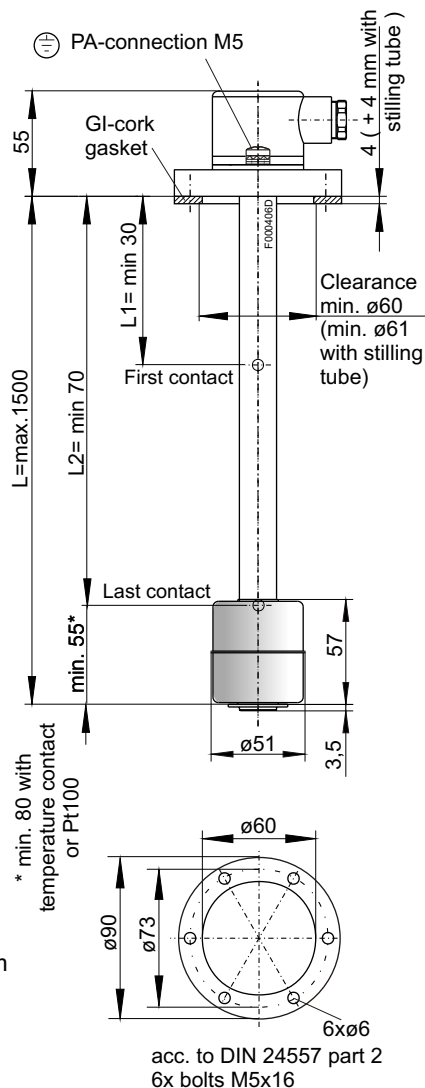
Tolerance	± 0,8° C	Connection cable, plug M12x1 (5 pol.) 3,0 m
Pi	0,14 mW	Part-no : 9144050018
I _{max}	1 mA	
Part-no	1120012	

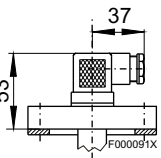
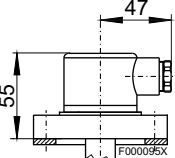
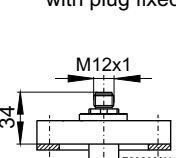
Ex-qualification:  II 2 G EEx ib IIB T4

L_i, C_i : negligible ; I_{max} : 90 mA ; U_{max} : 30 V (DC)



For Atex compliance this control must be used in conjunction with an intrinsically safe electrical circuit!



Connectors	M3 3 pol. + PE DIN EN 175301-803	S6 6 pol. + PE DIN EN 175201-804	M12 4 pol. + PE DIN EN 61076-2-101
Protection class	IP 65	IP 65	IP 67**
Cable gland	PG 11	M20 x 1,5	
(Other connectors upon request)			
Max. number of contacts	1 x K10 / 1 x TK	3 x K10 / 1 x TK or Pt100	1 x K10 / 1 x TK
Level- and temp.-contact or	- / -	1 x W11 / 1 x TK or Pt100	- / -
Level contact only or	2 x K10 1 x W11	4 x K10 2 x W11	2 x K10 1 x W11

Controllers for level switch - Atex see data sheet DE18 0004

Product code for Nivotemp NT 61-HT-Atex

61-HT-

A

-ATEX

Series

Nivotemp

61-HT

Design

-HT

stainless steel

Connector

M3

S6

M12

Length (max. 1500 mm)

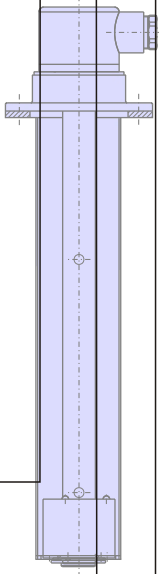
level contacts

1-4

Level contact

K = NO/NC

W = change over



 II 2 G Eex ib IIB T4

SSR = stilling pipe

A Temperature *

Pt 100 = Temperature sensor (RTD)

TK = Temperature contact

TK50NC = 50 °C NC

TK60NC = 60 °C NC

TK70NC = 70 °C NC

TK80NC = 80 °C NC

TK50NO = 50 °C NO

TK60NO = 60 °C NO

TK70NO = 70 °C NO

TK80NO = 80 °C NO

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Accessories

Part-No.	4-pole	Description
9144 05 0010		Connecting cable M12x1, 1.5 m, elbow connector (female) and straight connector (male)
9144 05 0046		Connecting cable M12x1, 3.0 m, elbow connector (female) and straight connector (male)
9144 05 0047		Connecting cable M12x1, 5.0 m, elbow connector (female) and wire

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: NT61-HT-M3/580-2K-ATEX, L1 = 100 mm at NC, L2 = 500 mm at NO

Standard pin assignment NT 61-HT-Atex

Connector	M3	S6/C6	M12 (base)
only level contact(s) type K10			
only level contact(s) type W11			
level contact(s) type K10 and temperature			
level contact(s) type W11 and temperature			
level contact(s) type K10 and Pt100 (RTD)			

TK = Thermo contact

PT = Temperature sensor PT100

other assignment on request