

Nivotemp 64

easyjust



The new Bühler “easyjust” system simplifies the adjustment of level contacts. The system consists of level contact cartridges that clip onto a gold plated contact board. This board can accommodate up to four contact cartridges plus the temperature control. The temperature control can be either a bimetal switch, PT 100 RTD or a 4-20 mA analog output. Both the level contacts and the temperature controls clip directly onto the contact board thus eliminating wiring.

By researching existing standards for fluid power packs including DIN 24346 regarding liquid level control, it was found that measuring to 300mm depth was sufficient to control both level and temperature. Therefore the Bühler standard length of 370mm is sufficient and covers most applications. Flange mounting is almost universal for breather/filler units so it is also suitable for mounting temperature and level controls.

The Nivovent 64 is available with a variety of electrical connectors and may also be combined with the Bühler temperature displays.

The above combination of design features are integrated into the Nivotemp 64 specifically designed for the fluid power industry.

The connection between the electrical connectors and the contact board is a quick change type making the stocking of spare parts and the adaption to specific applications very convenient.

- **combined level and temperature control**
- **”clip on” adjustable level contacts**
- **bistable level contacts = only one float**
- **high float sensitivity**
- **international standard flange dimensions**
- **easy installation**
- **maintenance free**
- **standard lengths of 250, 370, 520 mm**

technical data

operating pressure max. 1 bar
 operating temperature max. 80 °C
 spec. gravity of fluid min. 0,8 kg/dm³

material:

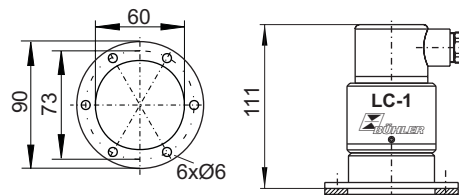
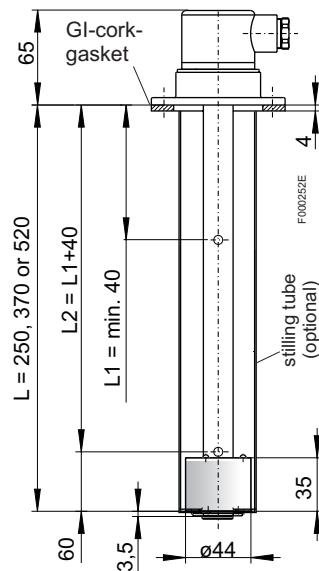
float SK 601 hard PU
 switch tube brass
 flange PA 6

level contacts single contact NC/NO* or change over
 min. distance btw. contacts 40 mm
 max. voltage 24 V
 max. current 0,5 A
 max. contact load 10 VA
 * **NC** = normally closed / **NO** = normally open, all figures at **empty reservoir**

temperature contacts TK
 max. voltage 24 V
 max. current 1 A
 max. contact load 24 VA
 hysteresis 10 K ± 3 K
 switch points: 50°C, 60°C, 70°C, 80°C ; normally closed (NC) or normally open (NO) at **rising temperature**
 other settings upon request

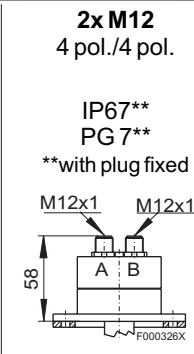
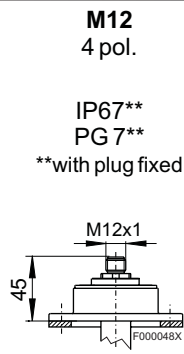
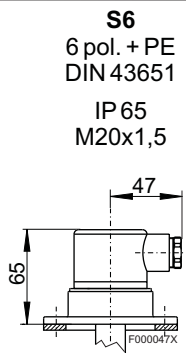
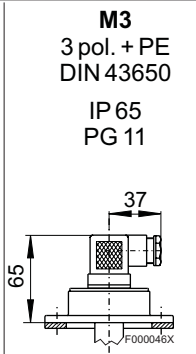
electronic temperature switch LC-1
 voltage 24 V DC 10% hysteresis 5 or 10°K adjustable
 ripple < 1% one output relay
 settings 10-95°C in 5°K increments, NC / NO adjustable

temperature sensor Pt100 (24 V DC) tolerance: ±0,8°C
temperature transmitter (24 V DC) output signal: 4-20 mA



connectors

other connectors upon request
 protection class IP 65
 cable gland PG 11



How to select your individual Nivotemp 64

1. Select basic version: level only or level plus temperature control (Pt100, 4-20mA, LC-1 or TK).
2. Select for level contacts: type single contact or change over and number, add requested position L1 - L4 and function NC or NO.
3. Select connector: type of connector determines the possible numbers of level and temperature controls.
4. For TK only: replace **XX** by **50, 60, 70 or 80** for temperature setting in °C, replace **Y** with **1** for function NO or **2** for NC.
5. For LC-1 only: add desired temperature setting T1 plus hysteresis H5 or H10 as required.
6. All: replace **L** with requested length L by **2** for 250mm, **3** for 370mm, **5** for 520mm.
7. All: replace **F** by respective figure for required accessories as per table on right hand side.

Nivotemp 64		level contacts ▶	1xNC/NO	2xNC/NO	3xNC/NO	4xNC/NO	1xchange over	2xchange over
		connector ▼						
level only ▶		S6	106411000LF	106412000LF	106413000LF	106414000LF	106418000LF	106419000LF
		M12	106421000LF	106422000LF	-	-	106428000LF	-
		M3	106441000LF	106442000LF	-	-	106448000LF	-
level plus temperature control	Pt100 ▶	S6	106411100LF	106412100LF	106413100LF	-	106418100LF	-
		2x M12	106431100LF	106432100LF	-	-	106438100LF	-
	4-20mA output ▶	S6	106411200LF	106412200LF	106413200LF	-	106418200LF	-
		M12	106421200LF	-	-	-	-	-
	2x M12	106431200LF	106432200LF	-	-	106438200LF	-	
	M3	106441200LF	-	-	-	-	-	
	LC-1 ▶	S6	106411300LF	106412300LF	-	-	106418300LF	-
(temperature-contact) ▶		S6	106411XXYLF	106412XXYLF	106413XXYLF	-	106418XXYLF	-
		M12	106421XXYLF	-	-	-	-	-
		2x M12	106431XXYLF	106432XXYLF	-	-	106438XXYLF	-
		M3	106441XXYLF	-	-	-	-	-

accessories	
F=	stilling-tube
0=	No
1=	Yes

part-no. with additional text: 10641230021 ; L1=60 NO, L2=120 NC ; T1=60°C, H5

order example

Bold printed part-no. are preferred versions

we reserve the right to amend specifications