## **Dimensions** (in mm) **Dual switching** (2 switchpoints, 1 float) 8 1. Length tolerance ±3 mm \* Immersion depth at density 1: # Float position: 2. L0 = max. 3000 mm $VA52 = 36 \pm 2 \text{ mm}$ VA52 = NO/NC ⇒ see float marking $BN30 = 20 \pm 2 \text{ mm}$ SPDT ⇒ NO-function BN30 = NO⇒ compound points at bottom NC ⇒ compound points at top SPDT ⇒ compound points at bottom

### **Function**

The multi Level Switch Series UNS 2000 can be supplied with up to 6 switchpoints (see max. switchpoints). Besides the float operated reed contacts to detect liquid levels, the UNS 2000 can be supplied also with a temperature sensor and/ or temperature contact(s), which are to handle as switchpoint(s) - please note max. switchpoints! A wide selection of mounting elements, electrical connections, various materials and options allow you to "design" your own switch, within the given dimension limits, for your particular application. Very long units or large flanges can cause high shipping and installation costs and "split" versions might be the answer. Consult us for the best combination.

The min. dimensions are based upon the medium water. Depending on the density of other fluids this dimension can vary several millimetres. The contact modes (NO or NC) are defined on the basis of an empty tank and for installation through the top or through the bottom (when specified as "-U"). When not specified otherwise we will set the switch position for density 1 (water) and the switch action to be on moving upward. Temperature sensor (PT100) and/or the temperature switch, a Bi-metall hermetically sealed element, are installed only in the bottom of the stem. That means: Dimensions B + 10 mm with temperature sensor PT100) Dimensions B + 40 mm temperature switch (TP)

### **Switchpoint Dimensions**

Dimensions	Min. distances in mm					
	AF	Ат	$A_{D}$	В	С	D
Float type						
VA52	32	52	44	55	85	55
BN30		60	52	39	77	55

When using -DR: Dimension B + 20 mm!

## Max. Switchpoints

	KL6	KL12	ST1	ST2	Pg Cable-	
					connect.	
Connect. group 1	5	6	2	5	6	
Connect. group 2	2	4	1	2	4	
Connect. group 3	3	4	1	3	4	
Connect. group 4	2	3	1	2	3	

## **Variations**

Material	Mounting	Electr. connect.	Float	Switch- points
VA	T2 FL3 FL4 FL5	ST1 ST2 KL6 KL12 Pg K	VA52	See max. switch- points
	G3/8	Pg K		
Ms	Т2	ST1 ST2 KL6 KL12 Pg K	BN30	See max. switch- points
	G3/8	Pg K		

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# Multi Level Switches Type UNS-2000

### **Technical Data**

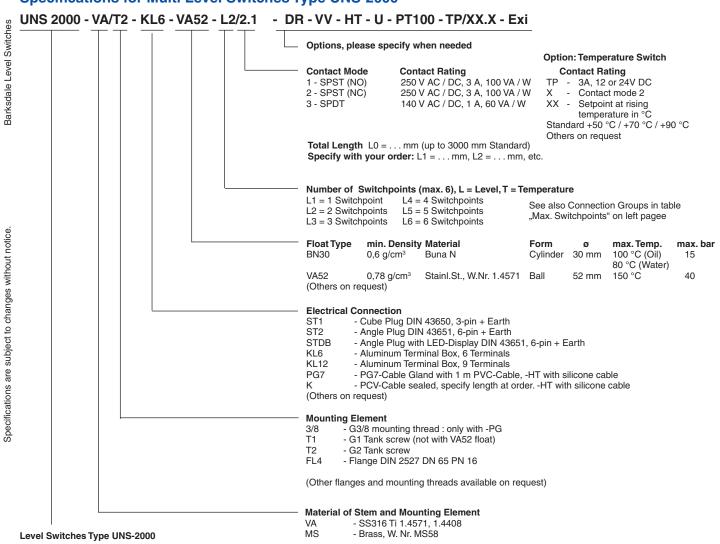
12 / 04 UNS US 04/1

#### Max. Operating Pressure : 40 bar, depends on mounting element and float : -10 °C...+105 °C, PVC-cable Max. Temperature Range -40 °C...+150 °C. Silicone cab. (-HT) and KL6 / KL12 Min. Fluid Specific Gravity : See specifications below Mounting Position : Vertical, ±30°, through top or bottom **Protection Class** : IP65 for ST-, KL- and PG-design IP67, IP68 on request IP54 for K-design Weight : Depends on length and design :- Damping Tube - DR Special Design - High Temperature Application (up to +150 °C) - HT - Mounting through bottom - U - PT100-Element - PT100 - Temperature switch - TP - Vertical Adjustment (s. also P25) - ATEX-approval EEx ia

## **Contact Wiring and Colour Code**

Group 1 SPST Te	erminal	Group 2 SPDT	Terminal
white  L6 blue  L5 pink  Grey  L3 yellow  L2 green  brown	1 7 6 5 4 3 2	white blace red blue pink grey yello L1 gree brow	8 8 7 6 5 5 ww 4 4 nn 3
Group 3 SPST Te	erminal	Group 4 SPDT	Terminal
L4 blue pink grey yellow green brown white	8 7 6 5 4 3 2	black red blue pink grey yellor greer L1 brow white	8 7 6 5 w 4 n 3 n 2

## **Specifications for Multi Level Switches Type UNS-2000**



Barksdale