

Multi Level Switches Type UNS-2000-S

Technical Data

The multi Level Switch Series 2000-S is available for shipbuilding with certain limitations in order to comply with shock, vibration and environment requirements.

The approvals have listed four different versions based upon the maximum total length L0 and the different floats, these are:

- A) Type A: L0 = max 500 mm, all floats
 B) Type B: L0 = max 400 mm, VA-floats only
 C) Type C: L0 = max 1000 mm, all floats, with bracket(s) at max. 500 mm spacing
 D) Type D: L0 = max 2000 mm with slosh tube and brackets at max. 1000 mm spacing

A wide selection of mounting elements, electrical connections and options allow you to "design" your own switch, within the given dimension limits, for your particular application.

Beside the standard SS 316 Ti / 1.4571 we can supply flanges in normal steel. Shipping and installation of switches with large flanges can be difficult and therefore a version with a 2" mounting plug to be installed on site in a flange with a 2" hole might be the answer, consult us for details.

For technical data, switch and operation limits of the UNS-2000-S series are as the standard version.

Diameter 12 mm or 13 mm tube used depending on configuration.

Contact Wiring and Colour Code

Group 1 SPST	Terminal	Group 2 SPDT	Terminal
 L6	white 1	 L4	white 1
 L5	blue 7	 L3	black 9
 L4	pink 6	 L2	red 8
 L3	grey 5	 L1	blue 7
 L2	yellow 4		pink 6
 L1	green 3		grey 5
	brown 2		yellow 4
			green 3
			brown 2

Group 3 SPST	Terminal	Group 4 SPDT	Terminal
 L4	red 8	 L3	black 9
 L3	blue 7	 L2	red 8
 L2	pink 6	 L1	blue 7
 L1	grey 5		pink 6
	yellow 4		grey 5
	green 3		yellow 4
	brown 2		green 3
	white 1		brown 2
			white 1

Specifications for Multi Level Switches Type UNS-2000-S

UNS 2000-S - VA/T2 - KLS1 - VA52 - L2/2.1

Contact Mode

- 1 - SPST (NO)
 2 - SPST (NC)
 3 - SPDT

Contact Rating

- 250 V AC / DC, 3 A, 100 VA/W
 250 V AC / DC, 3 A, 100 VA/W
 140 V AC / DC, 1 A, 60 VA/W

Order: L1, L2, L3, L4, L5

Total Length L0 = ... mm (max. 2000 mm)

Specify with your order: L1 = ... mm, L2 = ... mm, etc.

Number of Switchpoints

- L1 = 1 Switchpoint
 L2 = 2 Switchpoints (SPST all options possible, SPDT option KLS only possible)
 L3 = 3 Switchpoints (only with KLS)
 L4 = 4 Switchpoints (only with KLS; in SPST Gr.1 and Gr.3 possible; in SPD Gr.2 option only)

Float Type	min. Media Density	Material	Form	Dia-meter	Temp. max.	Pressure (+20 °C)
VA52	0,78 g/cm ³	Stainl. Steel 1,4571	Ball	52 mm	150 °C	40 bar
VA80	0,54 g/cm ³	Stainl. Steel 1,4571	Ball	82 mm	150 °C	17 bar
BN30	0,60 g/cm ³	Buna N	Cylinder	30 mm	100 °C (Oil)	15 bar
VA44	0,84 g/cm ³	Stainl. Steel 1,4571	Cylinder	44 mm	80 °C (Water)	15 bar

Electrical Connection

- KLS1 - Aluminum Terminal Box, 6 Terminals
 KLS2 - Aluminum Terminal Box, 9 Terminals
 KS - Cable with Shipbuilding Approvals (1m)
 (possible with L1 - all contact modes; L2 - SPST only)

Mounting Element

- T2 - G2 Tank screw (not with VA80 float)
 FL3 - SS Flange DIN 2527 DN 50 PN 16
 FL4 - SS Flange DIN 2527 DN 65 PN 16
 (Other flanges and mounting threads available on request)

Material of Stem and Mounting Element

- VA - Stainless Steel, W. Nr. 1.4571, 1.4408

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