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Multi Level Switch

UNS-2000 Series

Formerly Series BLS 800

Features

- Fully customizable
- Up to 6 independent switch points
- Reversible switch logic
- Suitable for high viscosity liquids
- Optional integral temperature switch
- Hermetically sealed reed switches

Applications

- Sump tanks
- Hydraulic power units
- Storage tanks
- Solvent recovery systems
- Lube oil console systems
- Marine applications

General Specifications*

Max. Operating Pressure:	580 PSI (40 bar), depends on mounting element and float
Minimum Specific Gravity: NBR (BUNA): S.S:	 0.6 g/cm³ 0.78 g/cm³
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

* See Product Configurator for additional options.

Operating Temperature:	+14 °F to +221 °F (-10 °C to +105 °C), PVC-cable
Special Design Options: **(On Request)**	DR - Damping Tube HT - High Temperature Application - (-40 °C up to +150 °C) F- Silicone Cable U - Mounting location through bottom PT100 - PT100-Element TP - Temperature switch V V - Vertical Adjustment EXi - ATEX-approval EEx ia
Contact Mode:	NO or NC are defined on the basis of an empty tank and for installation through the top
Weight:	Depends on length and design

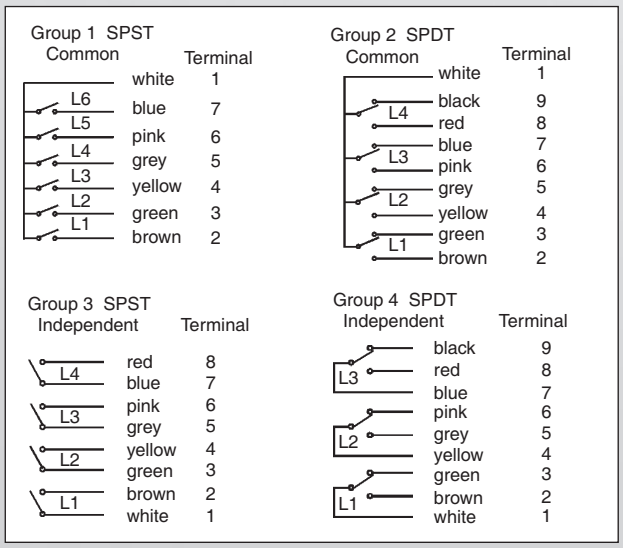
Max. Switchpoints

	KL6C AL Terminal Box	KL12C AL Terminal Box	ST1 DIN Connector	ST2 DIN Connector	PG Cable gland
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

Combinations

Material	Mounting	Electrical Connection	Float
Stainless Steel (VA)	T1-1/4 NPT T2 NPT FLAS	DIN Connector (ST1 & ST2) Terminal box (KL6C or KL12C) Cable gland (PG) PVC Cable (K)	Stainless Steel (VA52)
	1/2 NPT	Cable gland (PG) PVC Cable (K)	
Brass (MS)	T1-1/4 NPT T2 NPT	DIN Connector (ST1 & ST2) Terminal box (KL6C or KL12C) Cable gland (PG) PVC Cable (K)	NBR (Buna-N) (BN30)
	1/2 NPT	Cable gland (PG) PVC Cable (K)	

Wiring Color / Code



Technical Drawing

Dimensions in inch (mm)

Dual switching
(1 float for 2
switchpoints)

With Aluminum
Junction Box and 1/2" NPT
female conduit
(KL6C or KL12C)

With DIN
Connector
(ST1)

With Cable
gland
(PG)

1. Length tolerance ±3 mm
2. L0 = max. 3000 mm (118 inches)

* Immersion depth at density 1:
VA52 = 36 ±2 mm
BN30 = 20 ±2 mm

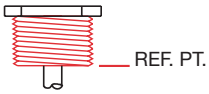
# Float position:
VA52 = NO/NC ⇒ see float marking
SPDT ⇒ NO-function
BN30 = NO ⇒ compound points at bottom
NC ⇒ compound points at top
SPDT ⇒ compound points at bottom

Dimensions / Float type	Min. distances in mm					
	A_F	A_T	A_D	B*	C	D
VA52	32	32	32	55	85	55
BN30	40	40	40	39	77	55

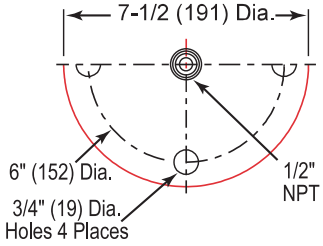
***When using -DR: Dimension B + 20 mm!**
***When using -PT100: Dimension is B + 10 mm**
***When using -TPxx/2: Dimension is B + 40 mm**

Mounting Types:

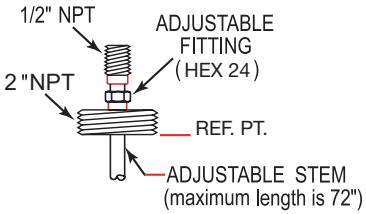
1/2" NPT



T1-1/4" or T2" NPT



FLA5
3" 150# Flange
with 1/2" NPT Male Fitting
(per applicable ANSI specifications)
Flange only available in
stainless steel.



Adjustable Stem
Only available with
flange and 'T' type
connections

UNS-2000 Series Order Form

Formerly Series BLS-800

Check Boxes to Select Specification Requirements

Description: **UNS 2000 -** _____ / _____ - _____ - _____ - _____ / ___.___ - _____

Product Configurator

Example	UNS 2000	-VA	/ T2NPT	-KL6C	-VA52	L2	/ 2.1	-(DR)-(VV)-HT-U-PT100-TP/XX.X-Exi

Basic Configuration

UNS 2000	Level switches type

Material of Stem

Check Required Specs

❑	VA	SS316
❑	MS	Brass

Mounting Element

❑	1/2NPT	1/2" NPT mounting (inside tap)
❑	T1-1/4NPT	1-1/4" NPT tank screw
❑	T2NPT	2" NPT tank screw
❑	FLA5	3" Blind flange (150#)

Electrical Connection[1]

❑	ST1	Cube plug DIN 43650, 3-pin + GND
❑	ST2	Angle plug DIN 43651, 6-pin + GND
❑	KL6C	Aluminum terminal box, 6 terminals with 1/2" NPT conduit
❑	KL12C	Aluminum terminal box, 9 terminals with 1/2" NPT conduit
❑	PG	PG-cable gland with 1 m PVC-cable
❑	K	PVC-cable sealed, specify length at order
❑	KXP	Explosion proof junction box with 1/2" conduit
❑	C	1/2" NPT male conduit (VA only)

[1] See "Combinations" section on page 1 for mounting and electrical connection options.

No. of Switchpoints[2]
L=Level, T=Temperature

❑	L1	1 Switchpoint @ _____in/mm
❑	L2	2 Switchpoints @_____in/mm
❑	L3	3 Switchpoints @_____in/mm
❑	L4	4 Switchpoints @_____in/mm
❑	L5	5 Switchpoints @_____in/mm
❑	L6	6 Switchpoints @_____in/mm

See also Connection Groups in table "Max. Switchpoints"

Options, please specify when needed

❑	DR	Damping tube
❑	HT	High temperature silicone cable (max 6 wires), (up to +150 °C) 302°F
❑	U	Mounting through bottom
❑	PT100	PT100-element
❑	VV	Vertical adjustment
❑	Exi	ATEX approval EEx ia
❑	TP	3A, 12 or 24V DC
❑	X	Contact mode 2 (NC)
❑	XX	Setpoint at rising in °C

Standard +122 °F / +158 °F / +194 °F (+50 °C / +70 °C / +90 °C)
Others on request

Float Type

		Min. Density	Material	Form	∅	Max. Temp.	Max. Bar
❑	BN30	0.6 g/cm3	NBR	Cylinder	30 mm 1-3/16	212 °F (100 °C) - Oil 176 °F (80 °C) - Water	15
❑	VA52	0.78 g/cm3	Stainless steel, 316	Ball	52 mm 2-1/16	302 °F (150 °C)	40

Contact Type of Float

	Contact Mode	Contact Rating
❑	1-SPST (NO)	250 V AC / DC, 3 A, 100 VA / W
❑	2-SPST (NC)	250 V AC / DC, 3 A, 100 VA / W
❑	3-SPDT	140 V AC / DC 1 A, 60 VA/ W

Must specify with your orders

Check List:

1 - Overall stem length: L0= _____ (in/mm) (Upto 3000mm std.)
2 - Add dimensional position of float
3 - Pick wiring code:

❑ **Group 1**

SPST Common	Terminal
white	1
L6 blue	7
L5 pink	6
L4 grey	5
L3 yellow	4
L2 green	3
L1 brown	2

❑ **Group 2**

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

❑ **Group 3**

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

❑ **Group 4**

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

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