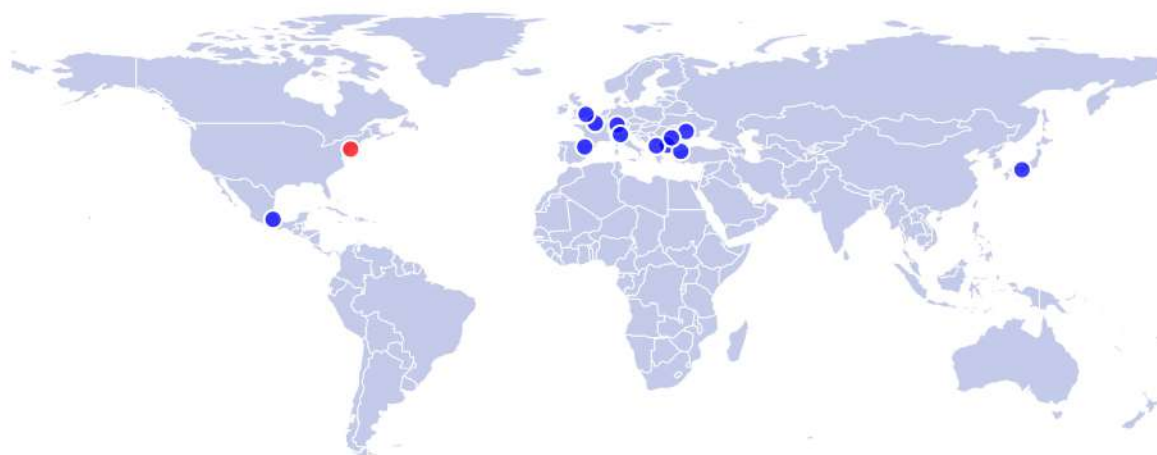




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Multi Level Switch

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):	0.6 g/cm ³
S.S:	0.78 g/cm ³
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

Group 1 SPST Common Terminal		Group 2 SPDT Common Terminal	
	white 1		white 1
	blue 7		black 9
	pink 6		red 8
	grey 5		blue 7
	yellow 4		pink 6
	green 3		grey 5
	brown 2		yellow 4
			green 3
			brown 2
			white 1
Group 3 SPST Independent Terminal		Group 4 SPDT Independent Terminal	
	red 8		black 9
	blue 7		red 8
	pink 6		blue 7
	grey 5		pink 6
	yellow 4		grey 5
	green 3		yellow 4
	brown 2		green 3
	white 1		brown 2
			white 1

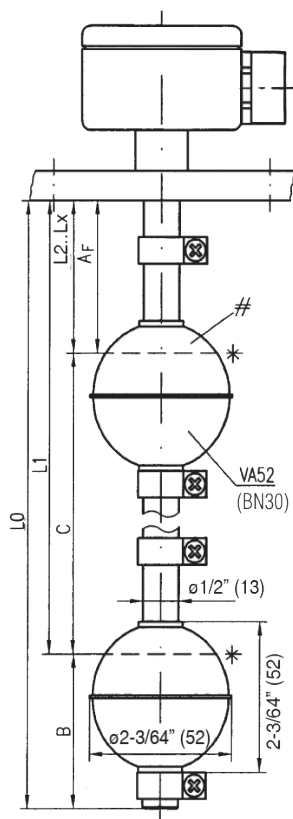
Multi Level Switch

UNS-2000 Series

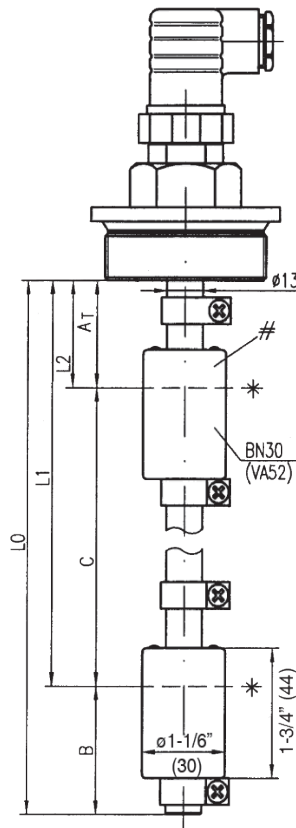
Technical Drawing

Formerly Series BLS 800

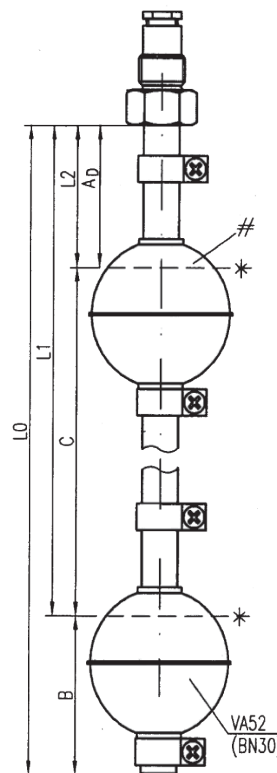
Dimensions in inch (mm)



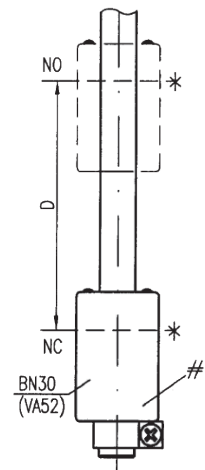
With Aluminum
Junction Box and 1/2" NPT
female conduit
(KL6C or KL12C)



With DIN
Connector
(ST1)



With Cable
gland
(PG)



Dual switching
(1 float for 2
switchpoints)

Mounting Types:

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 $\Rightarrow$ see float marking

SPDT $\Rightarrow$ NO-function

BN30 = NO $\Rightarrow$ compound points at bottom

NC $\Rightarrow$ compound points at top

SPDT $\Rightarrow$ compound points at bottom

Dimensions	Min. distances in mm					
	AF	AT	AD	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

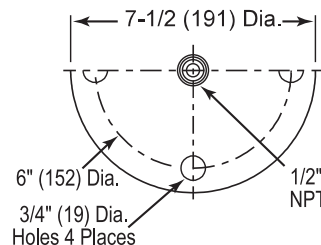
*When using -TPxx/2: Dimension is B + 40 mm



1/2" NPT

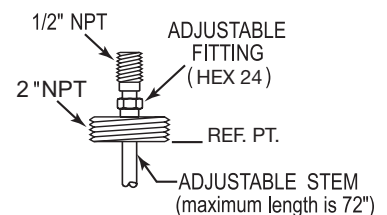


T1-1/4" or
T2" NPT



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

Multi Level Switch

UNS-2000 Series

Formerly Series BLS-800

UNS-2000 Series Order Form

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

Check
Required
Specs

Material of Stem

☐ 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 Connection¹

☐ 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.

Float Type

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

No. of Switchpoints²

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

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

Group 2

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

Group 3

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

Group 4

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