

MAGNETIC FLOAT LEVEL SWITCH

LS SERIES

The vertical float level switch consist of a float with a built in permanent magnet, and guide tube built in reed switch (one or more), when the float rise up or fall down in liquid that induct the reed switch to become ON or OFF contact function. The ON-OFF contact provdie a liquid level control for application by request.

Technical Data

Material: Wetted parts are available for SS304, SS316, PVC, PP, PVDF by requested. Multiple level point are available by requested for customer.

Enclosure Housing: Weather proof IP65 and IP67; Explosion proof available
Straight Style LS Series: LS-simple type; WLS-IP65 & weather proof type; ELS-explosion proof type

Angle Style Series: LA-simple type; WLA-IP65 & weather proof type; ELA-explosion proof type


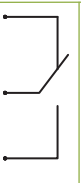

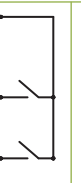
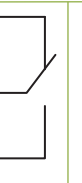


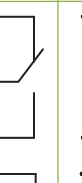

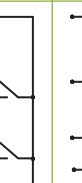

Connection Size: Thread type- 1½" to 3"; Flange type- 1½" to 4"

Switch Table

Contact Form	A (SPST)	C (SPDT)
Switching Capacity Max.	40 W/VA	60 W/VA
Switching Voltage Max.	230V AC/DC	230V AC/DC
Switching Current Max.	2A	1A
Carrying Current Max.	3A	2A
Working Temperature	-20°C~+130°C	-20°C~+130°C

*Special rate available on request.

Wiring Code Numbers

One Float		Two Float			Three Float			Four Float			
1	2	3	4	5	6	7	8	9	10	11	
							Ø40	Ø40	Ø28	Ø49	
							Ø49	Ø49	Ø40	Ø75	
							Ø75	Ø75	Ø49		
									Ø75		
Suitable Float Size: Ø28, Ø40, Ø49, Ø75											
											
1xSPST	1xSPDT	2xSPST	SPST (Common Wire Style)	2xSPDT	3xSPST	SPST (Common Wire Style)	3xSPDT	4xSPST	SPST (Common Wire Style)	4xSPDT	



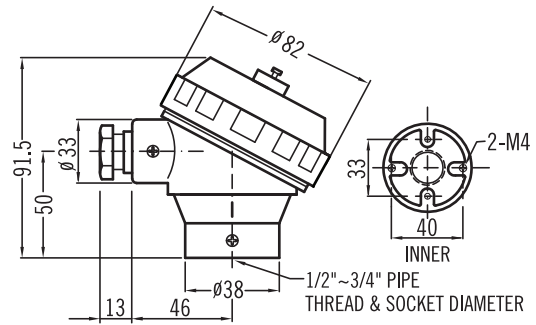
Head Type Technical Data



HN TYPE

HN Type

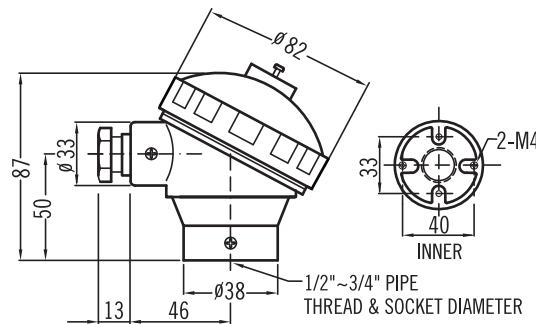
Protection: IP67
Material: Aluminum Alloy
Weight: 264g
Protection tube connection: 1/2", 3/4" (PF, NPT, BSP), M20X1.5
Extension wire connection: 1/2", 3/4" (PF, NPT, BSP), M20X1.5
 Other specifications are available on request.



HP TYPE

HP Type

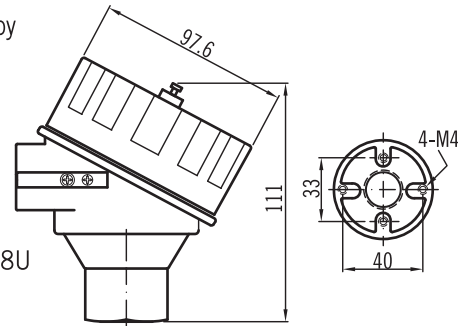
Protection: IP65
Material: Polypropylene
Weight: 112g
Protection tube connection: 1/2" NPT, 1/2" BSP
Extension wire connection: 3/4" NPT, M20X1.5
 Other specifications are available on request.



XDS TYPE

XDS / XDA Type

Material: XDS-SS316; XDA-Aluminum alloy
Weight: XDS-1278 g; XDA-460 g
Protection tube connection: 1/2" PF, 3/4" PF, 1/2" NPT, 3/4" NPT, 1/2" BSP, 3/4" BSP, G1/2", G3/4", M20x1.5, M24x1.5, M25x1.5
Extension wire connection: M20x1.5, M25x1.5, 1/2" NPT, 3/4" NPT
EC certificate no.: BSI 07 ATEX 1532458U
ATEX directive code: II 2 G D
Standard code: Ex d IIC T6, Ex tD A21
 T100°C IP6x Ta= -20°C to +40°C



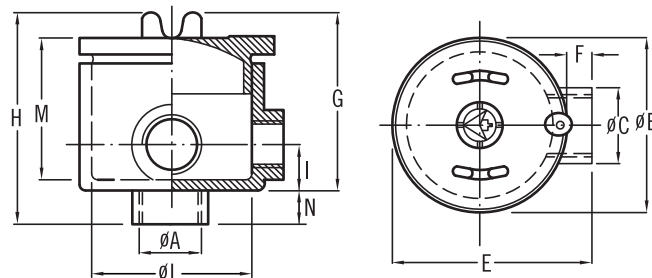
FM Approvals: XP/II/1/ABCD/T6; DIP/II,III/1/EFG/T6; Type 4X
 Explosionproof for Class I, Division 1, Groups A,B,C and D; and dust-ignitionproof for Class II, III Division 1, Groups E,F and G, hazardous (classified) locations; indoor / outdoor (NEMA Type 4X).



XDA TYPE

S2 Type

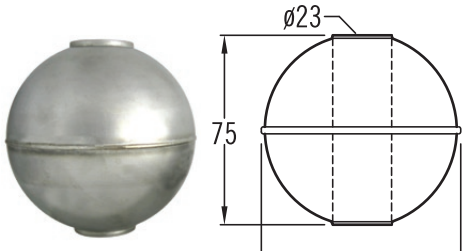
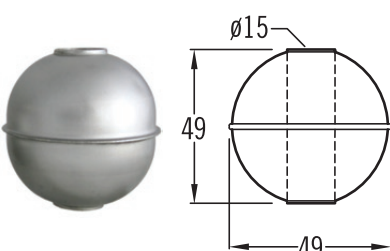
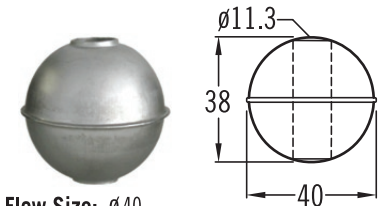
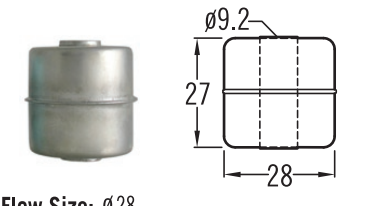
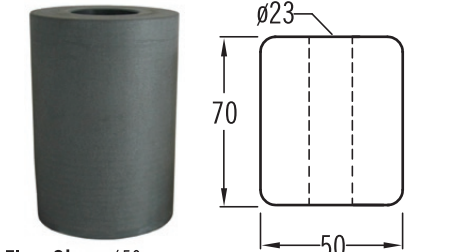
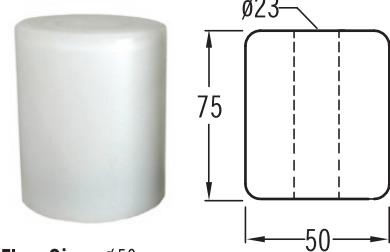
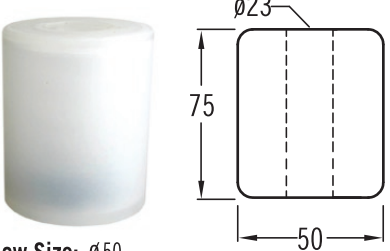
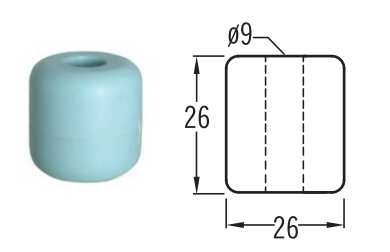
Protection: Explosion proof. EExdIIC T6 IP65
Material: Aluminum Alloy



S2 TYPE

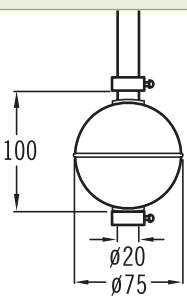
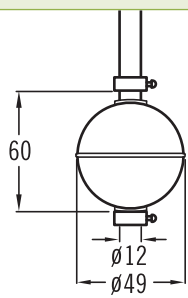
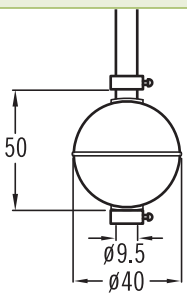
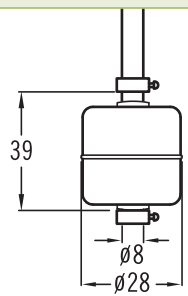
Type	Dimensions											Terminal Block (on request)	Weight Gr.
	ØA	ØB	ØC	E	F	G	H	I	ØL	M	N		
S2	3/4"	90	38	100	10	78	92	24	76	69	14	4x4 mm ²	510

Float Specification

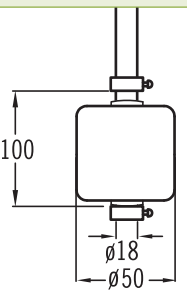
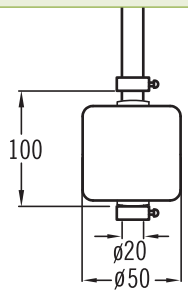
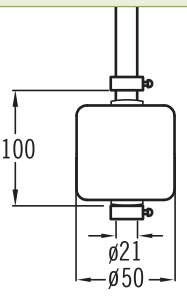
<p>$\phi 75 \times 75 \text{mm (SUS316)}$</p>  <p>Flow Size: $\phi 75$ Max. Working Pressure: 30 kg/cm² Working S.G.: ≥ 0.68 The Guide Tube Size: $\phi 20$ Material: SUS316 Limited Operating Temperature: -20 ~ 140°C</p>	<p>$\phi 49 \times 49 \text{mm (SUS316)}$</p>  <p>Flow Size: $\phi 49$ Max. Working Pressure: 30 kg/cm² Working S.G.: ≥ 0.68 The Guide Tube Size: $\phi 12$ Material: SUS316 Limited Operating Temperature: -20 ~ 140°C</p>
<p>$\phi 40 \times 38 \text{mm (SUS316)}$</p>  <p>Flow Size: $\phi 40$ Max. Working Pressure: 30 kg/cm² Working S.G.: ≥ 0.8 The Guide Tube Size: $\phi 9.5$ Material: SUS316 Limited Operating Temperature: -20 ~ 140°C</p>	<p>$\phi 28 \times 27 \text{mm (SUS316)}$</p>  <p>Flow Size: $\phi 28$ Max. Working Pressure: 15 kg/cm² Working S.G.: ≥ 0.8 The Guide Tube Size: $\phi 8$ Material: SUS316 Limited Operating Temperature: -20 ~ 140°C</p>
<p>$\phi 50 \times 70 \text{mm (P.V.C)}$</p>  <p>Flow Size: $\phi 50$ Max. Working Pressure: 3 kg/cm² Working S.G.: ≥ 0.7 The Guide Tube Size: $\phi 18$ Material: P.V.C Limited Operating Temperature: 0~70°C</p>	<p>$\phi 50 \times 75 \text{mm (PVDF)}$</p>  <p>Flow Size: $\phi 50$ Max. Working Pressure: 5 kg/cm² Working S.G.: ≥ 0.8 The Guide Tube Size: $\phi 20$ Material: PVDF Limited Operating Temperature: 0~120°C</p>
<p>$\phi 50 \times 75 \text{mm (P.P)}$</p>  <p>Flow Size: $\phi 50$ Max. Working Pressure: 3 kg/cm² Working S.G.: ≥ 0.7 The Guide Tube Size: $\phi 21$ Material: P.P Limited Operating Temperature: 0~60°C</p>	<p>$\phi 26 \times 26 \text{mm (P.P)}$</p>  <p>Flow Size: $\phi 26$ Max. Working Pressure: 3 kg/cm² Working S.G.: ≥ 0.7 The Guide Tube Size: $\phi 8$ Material: P.P Limited Operating Temperature: 0~60°C</p>

ON-OFF Gap

A. Metal

<p>$\phi 75 \times 75 \text{mm (SUS316)}$</p> 	<p>$\phi 49 \times 49 \text{mm (SUS316)}$</p> 
<p>$\phi 40 \times 38 \text{mm (SUS316)}$</p> 	<p>$\phi 28 \times 27 \text{mm (SUS316)}$</p> 

B. Non-Metal

<p>$\phi 50 \times 70 \text{mm (P.V.C)}$</p> 	<p>$\phi 50 \times 75 \text{mm (PVDF)}$</p> 
<p>$\phi 50 \times 75 \text{mm (P.P)}$</p> 	<p>$\phi 26 \times 26 \text{mm (P.P)}$</p> 