

MAGNETIC FLOAT LEVEL SWITCH

AI.LS Series



DESCRIPTION

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 provide a liquid level control for application by request.

TECHNICAL DATA

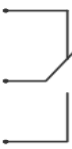
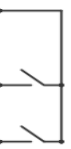
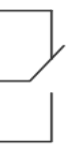
- **Material:** wetted parts are available for SS304, SS316, PVC, PP, PVDF by requested.
- Multiple level point are available by requested for customer.
- **Enclosure housing:** IP65 and IP67, Explosion proof, Weather proof
- **Straight style AI.LS Series:** LS-simple type, WLS-IP65 & weather proof, ELS-explosion proof
- **Angle style series:** LA-simple type, WLA-IP65 & weather proof, ELA-explosion proof
- **Connection size:** Thread Type - 1 1/2" to 3", Flange Type - 1 1/2" 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	-40°C~+130°C	-40°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
Suitable Float Size: ø28, ø40, ø49, ø75							ø40 ø49 ø75	ø40 ø49 ø75	ø28 ø40 ø49 ø75	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

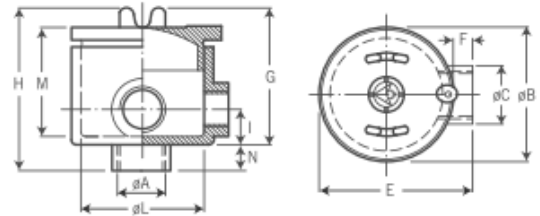


Protection: IP68

Protection: Weather Proof Type

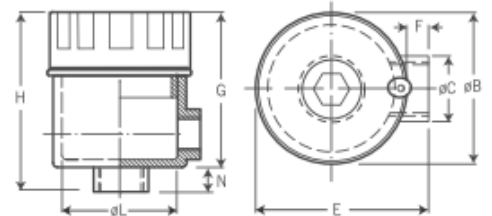
Material: XDS-SS316; XDA-Aluminum alloy

Protection: Explosion Proof, EEx d IIC-T6, II 2 GD; IP66
Material: Aluminum Alloy



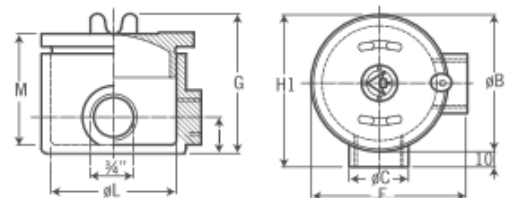
Type	Dimensions											Terminal Block (on request)	Weight Gr.
	øA	øB	øC	E	F	G	H	I	øL	M	N		
S2	¾"	90	38	100	10	78	92	24	76	69	14	4x4mm ²	510

Protection: Explosion Proof Type
Material: ES: SS316 / EA: Aluminum Alloy
Extension wire connection:
1/2", 3/4" (PF, NPT, BSP)
Weight: 1054 g

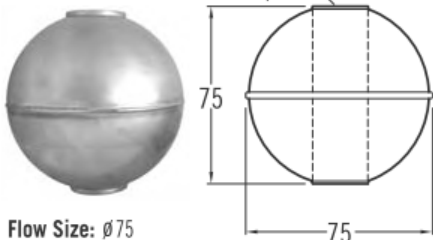
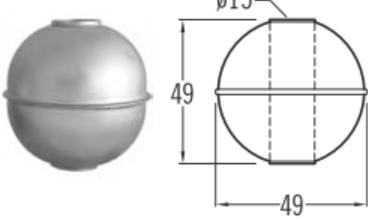
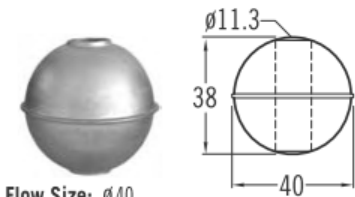
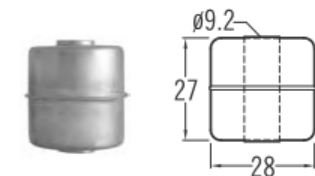
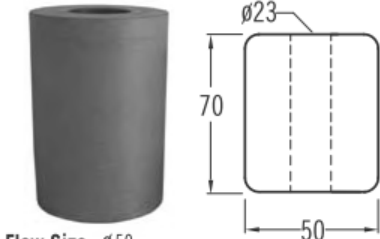
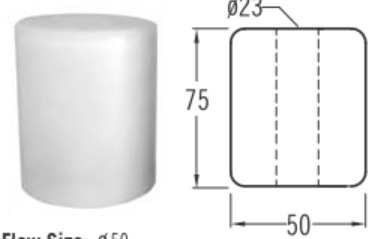
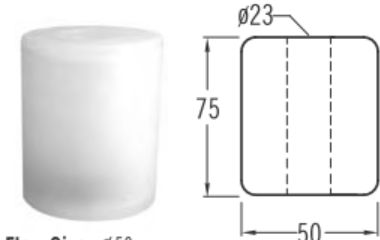
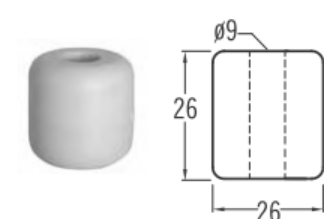


Type	Dimensions unit:mm							
	G	H	gL	N	gB	gC	E	F
ES/EA	76	90	56.5	14	74	35.5	87	13

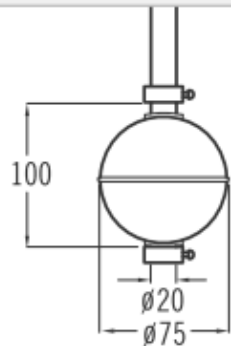
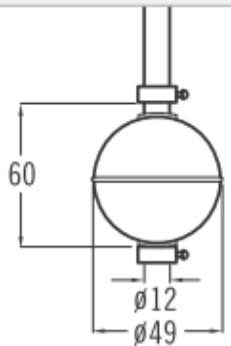
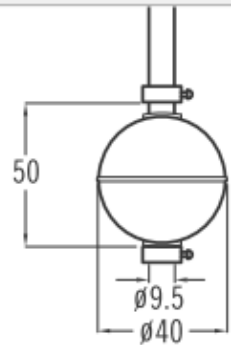
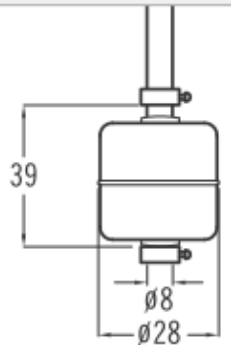
Protection: IP66
Material: Aluminum Alloy



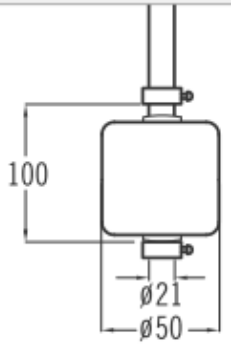
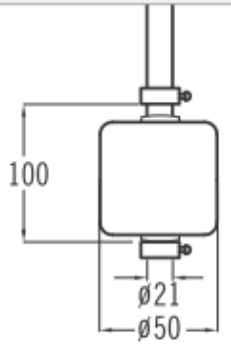
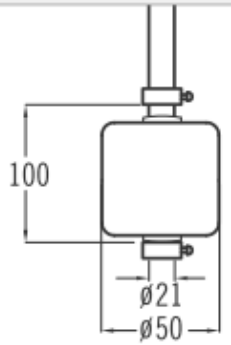
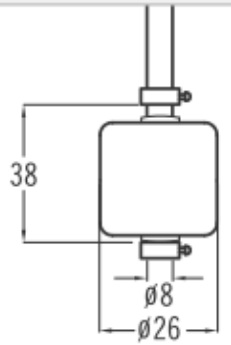
Type	Dimensions								Terminal Block (on request)
	øB	øC	E	G	H1	I	øL	M	
MS-1	100	38	110	80	100	24	88	68	4x4mm ²

$\varnothing 75 \times 75 \text{mm (SUS316)}$	$\varnothing 49 \times 49 \text{mm (SUS316)}$
 Flow Size: $\varnothing 75$ Max. Working Pressure: 30 kg/cm² Working S.G.: ≥ 0.68 The Guide Tube Size: $\varnothing 17.2$ Material: SUS316 Limited Operating Temperature: -20 ~ 140°C	 Flow Size: $\varnothing 49$ Max. Working Pressure: 30 kg/cm² Working S.G.: ≥ 0.68 The Guide Tube Size: $\varnothing 12$ Material: SUS316 Limited Operating Temperature: -20 ~ 140°C
$\varnothing 40 \times 38 \text{mm (SUS316)}$	$\varnothing 28 \times 27 \text{mm (SUS316)}$
 Flow Size: $\varnothing 40$ Max. Working Pressure: 30 kg/cm² Working S.G.: ≥ 0.8 The Guide Tube Size: $\varnothing 9.5$ Material: SUS316 Limited Operating Temperature: -20 ~ 140°C	 Flow Size: $\varnothing 28$ Max. Working Pressure: 15 kg/cm² Working S.G.: ≥ 0.8 The Guide Tube Size: $\varnothing 8$ Material: SUS316 Limited Operating Temperature: -20 ~ 140°C
$\varnothing 50 \times 70 \text{mm (P.V.C)}$	$\varnothing 50 \times 75 \text{mm (PVDF)}$
 Flow Size: $\varnothing 50$ Max. Working Pressure: 3 kg/cm² Working S.G.: ≥ 0.7 The Guide Tube Size: $\varnothing 17.2$ Material: P.V.C Limited Operating Temperature: 0 ~ 70°C	 Flow Size: $\varnothing 50$ Max. Working Pressure: 5 kg/cm² Working S.G.: ≥ 0.8 The Guide Tube Size: $\varnothing 21.5$ Material: PVDF Limited Operating Temperature: 0 ~ 120°C
$\varnothing 50 \times 75 \text{mm (P.P)}$	$\varnothing 26 \times 26 \text{mm (P.P)}$
 Flow Size: $\varnothing 50$ Max. Working Pressure: 3 kg/cm² Working S.G.: ≥ 0.7 The Guide Tube Size: $\varnothing 21.5$ Material: P.P Limited Operating Temperature: 0 ~ 60°C	 Flow Size: $\varnothing 26$ Max. Working Pressure: 3 kg/cm² Working S.G.: ≥ 0.7 The Guide Tube Size: $\varnothing 9$ Material: P.P Limited Operating Temperature: 0 ~ 60°C

A. Metal

$\varnothing 75 \times 75 \text{mm (SUS316)}$	$\varnothing 49 \times 49 \text{mm (SUS316)}$
	
$\varnothing 40 \times 38 \text{mm (SUS316)}$	$\varnothing 28 \times 27 \text{mm (SUS316)}$
	

B. Non-Metal

$\varnothing 50 \times 70 \text{mm (P.V.C)}$	$\varnothing 50 \times 75 \text{mm (PVDF)}$
	
$\varnothing 50 \times 75 \text{mm (P.P)}$	$\varnothing 26 \times 26 \text{mm (P.P)}$
	

DIMENSIONS

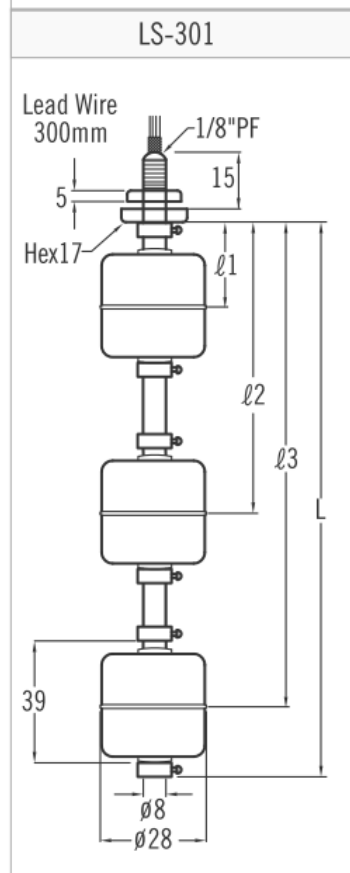
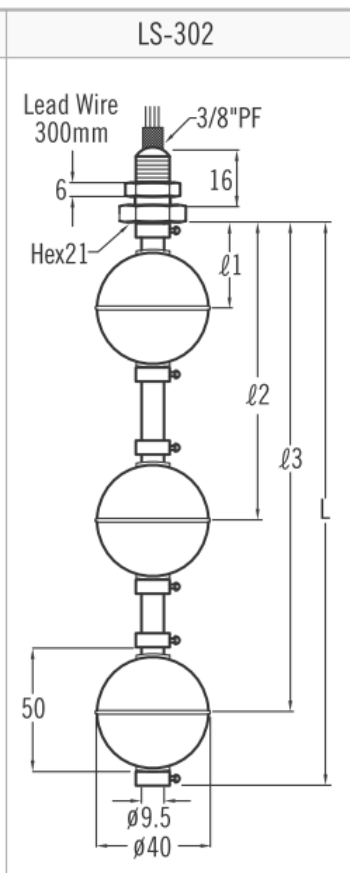
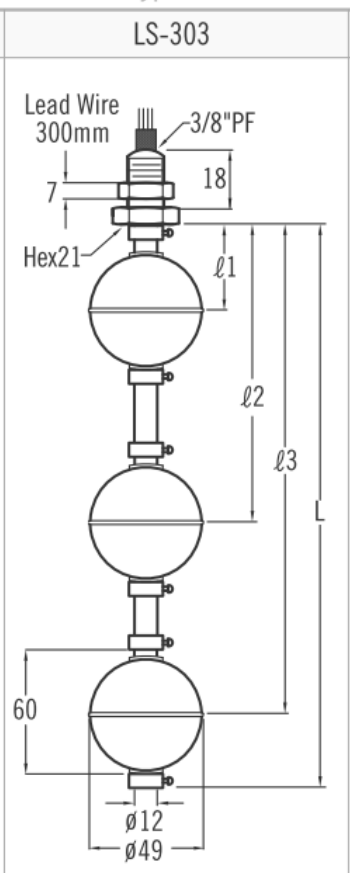
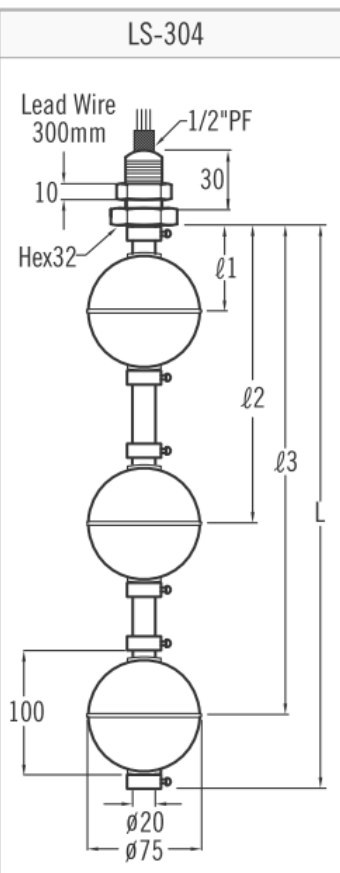
LS-100 Series One Float Type

LS-101	LS-102	LS-103	LS-104
Lead Wire 300mm 1/8"PF 5 Hex17 27 63 28 8	Lead Wire 300mm 3/8"PF 6 Hex21 38 84 40 9.5	Lead Wire 300mm 3/8"PF 7 Hex21 49 98 49 12	Lead Wire 300mm 1/2"PF 10 Hex32 75 140 75 20

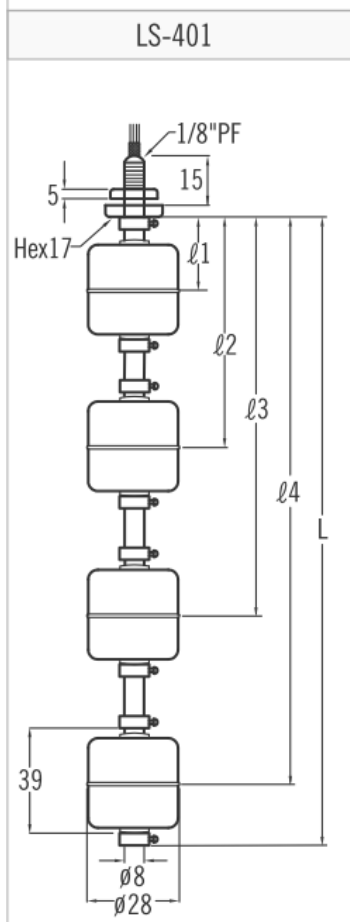
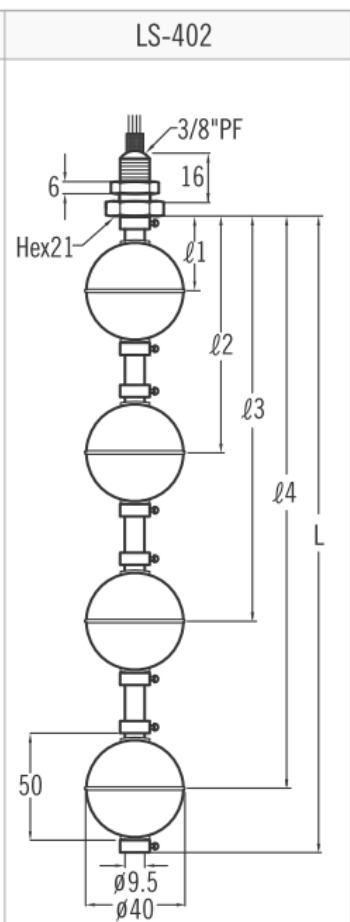
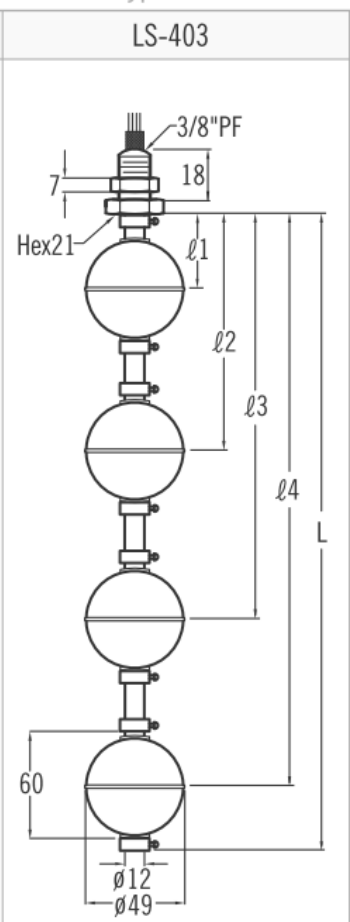
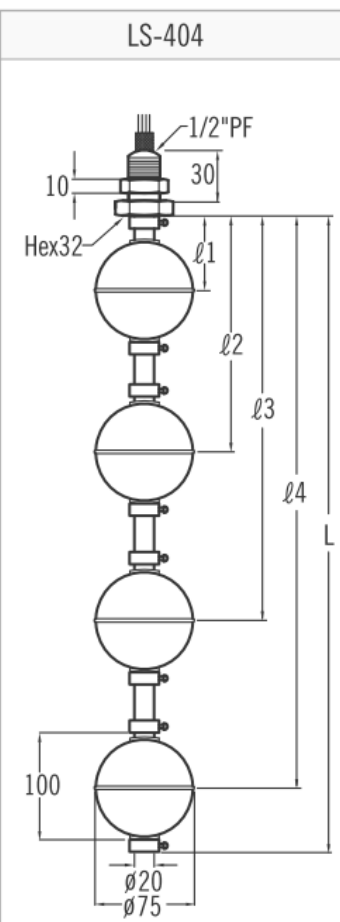
LS-200 Series Two Float Type

LS-201	LS-202	LS-203	LS-204
Lead Wire 300mm 1/8"PF 5 Hex17 39 L 28 8	Lead Wire 300mm 3/8"PF 6 Hex21 50 L 40 9.5	Lead Wire 300mm 3/8"PF 7 Hex21 60 L 49 12	Lead Wire 300mm 1/2"PF 10 Hex32 100 L 75 20

LS-300 Series Three Float Type

LS-301	LS-302	LS-303	LS-304
			

LS-400 Series Four Float Type

LS-401	LS-402	LS-403	LS-404
			

ORDERING INFORMATION

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System ISO 9001:2015
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