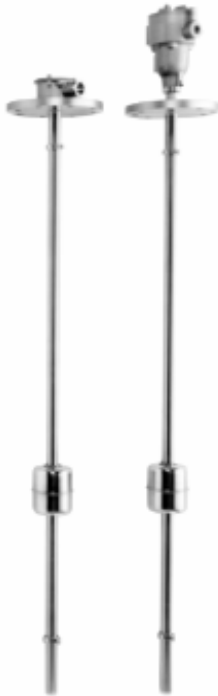


Level switch / Level transmitter



General description

level sensors are designed to meet demanding customer requirements for reliable operation. Models are available in lengths up to 3900mm with a variety of mounting configurations. The wide selection of materials includes 304SS, 316SS, PVC, CPVC, Polypropylene, and PTFE.

Operational Description

The level sensor consists of the reed switch and resistor on the internal circuit inside the stem and permanent magnet inside the float. The float is the only moving part which travels vertically on the stem. A permanent magnet inside the float acts on a series of closely set reed switches and resistors on the internal circuit inside the stem. The total resistance value is converted into voltage and current signals in proportion to the level of the liquid.

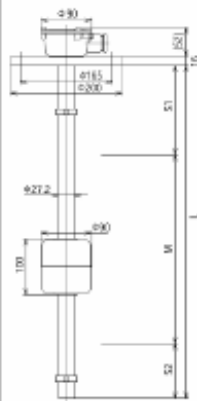
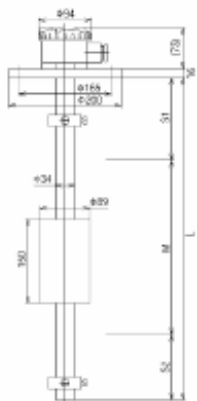
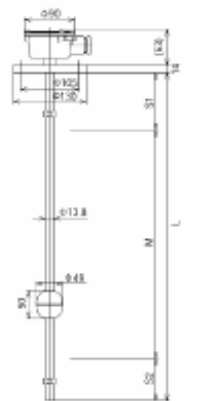
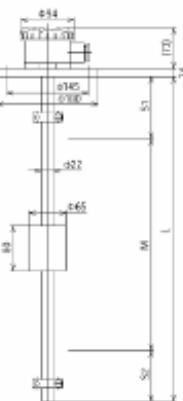
Features

- Continuous level indication / on-off
- 4~20mA output / Reed switch
- Very reliable
- Wide choice of materials
- Durable float
- Shock resistive and anti-stick float design

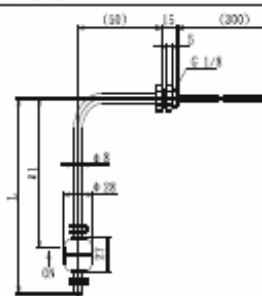
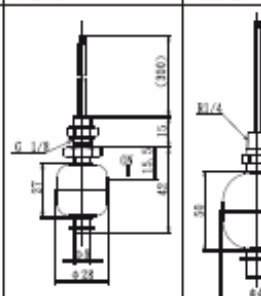
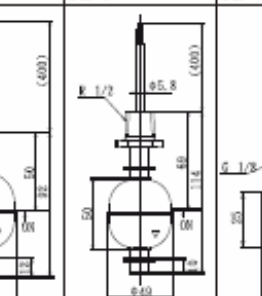
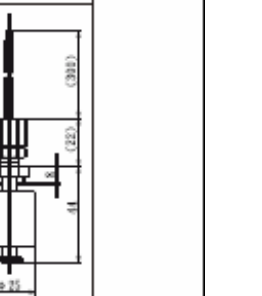

LBS ,LBPV	STANDARD	
LSS, LSPV	COMPACT	
	0	THREAD (PT , PF , NPT ,G)
	1	JIS FLANGE (FF / RF , 5 K , 10 K , 15K)
	2	ANSI FLANGE (FF / RF , 150LB , 300LB)
	3	DIN FLANGE (FF / RF , PN15 ,PN40)
		FLOAT POINTS (MAX TO 5 FLOATS)
	0	OUTPUT : SPST OR SPDT
	1	CONTINUOUS (OUTPUT : 4 ~ 20 m A)
	A	Ø 49*50H , SUS316
	B	Ø 98*150H , PVC
	C	Ø 28*30H , SUS316
	D	Ø 65*80H , PVC
	(L) mm	INSERTION LENGTH (mm) max length to 3900 mm

Specifications

Sensor

Model	LBS	LBPV	LSS	LSPV															
Description	Standard		Compact																
Drawing																			
Mounting	JIS5K100A	JIS5K100A	JIS5K50A	JIS5K80A															
Operating Temperature	-10°C to 100°C	0°C to 50°C	-10°C to 100°C	0°C to 50°C															
Maximum Pressure	500kPa / 5bar	200kPa / 2bar	500kPa / 5bar	200kPa / 2bar															
Minimum Specific Gravity	0.7	0.8	0.8	0.7															
Material	<table border="1"> <tr> <td>Housing</td> <td>ADC12</td> <td>PVC</td> <td>ADC12</td> <td>PVC</td> </tr> <tr> <td>Flange Stem*</td> <td>304SS</td> <td>PVC</td> <td>304SS</td> <td>PVC</td> </tr> <tr> <td>Float*</td> <td>316SS</td> <td>PVC</td> <td>316SS</td> <td>PVC</td> </tr> </table>				Housing	ADC12	PVC	ADC12	PVC	Flange Stem*	304SS	PVC	304SS	PVC	Float*	316SS	PVC	316SS	PVC
Housing	ADC12	PVC	ADC12	PVC															
Flange Stem*	304SS	PVC	304SS	PVC															
Float*	316SS	PVC	316SS	PVC															
Maximum Length of Stem	3900mm		3000mm																
Minimum Length of S1	80mm	90mm	50mm	80mm															
Minimum Length of S2	80mm	135mm	50mm	80mm															
Resolution	10mm (5mm is option)																		
Cable Entry	JIS F 20a (G3/4)																		
Protection	IP55	IP43	IP65	IP43															

*Other materials are available.

Model	FIH-L	FIH-1	FIH-2	FIH-3	FIH-4
Drawing					
Stem	304SS	316SS	304SS		PP
Float	316LSS	316LSS	316SS		PP
Retainer	304SS	316SS	304SS		PP
Operating Temp	-10°C to 100°C	-10°C to 100°C	-10°C to 120°C	-10°C to 200°C	-10°C to 90°C
Operating Pressure	2MPa / 20bar		2MPa / 20bar		1MPa/10bar
Mounting	Vertical				
Switching Rating	50VA AC	50VA AC	15VA AC	110VA AC	50V AC
Lead Wires	#22AWG		Silicon		#22AWG
Minimum SG	0.8	0.8	0.55	0.7	0.8