

MAGNETIC FLOAT LEVEL TRANSMITTER

AI.LT Series



DESCRIPTION

The vertical float level switch consist of a float with a built in permanent magnet, and guide tube built in reed switch and resistances becoming a measuring sensor. The float rise up or fall down in liquid inducing measuring sensor to make proportional voltage which combine a V/i converter turn to a 4-20mA DC output signal. To provide a liquid level control function.

TECHNICAL DATA

Resolution Accuracy: +/- 12mm standard; +/- 6mm on request

Material: wetted parts are available for SS304, SS316, PVC, PP, PVDF by requested.

Output signal: 4-20mA DC (500-20k) 2-wire

Power Supply: 11V-30V DC

Enclosure housing: Explosion proof, Weather proof

Max. Range: 6000mm (SS316, SS304, SS316L, PVC, PP, PVDF)

Limit Operating Temperature: -20 to +100°C

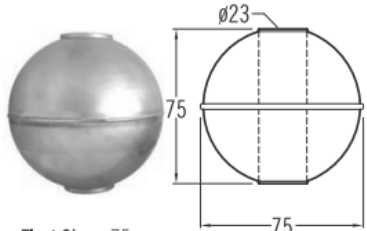
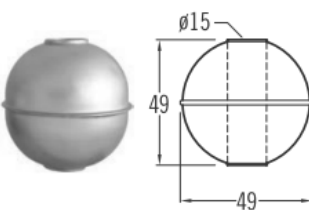
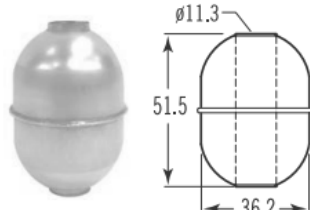
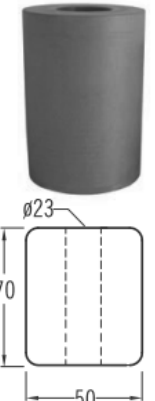
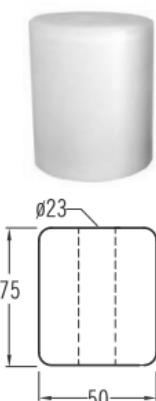
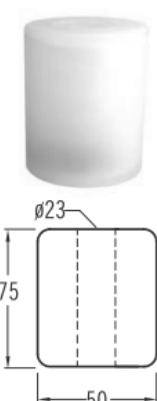
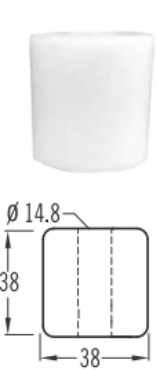
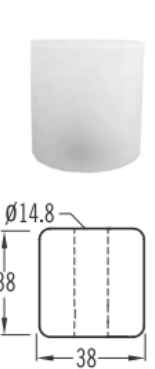
Limit Operating Pressure: 3-30kg/cm²

LCD Display: available

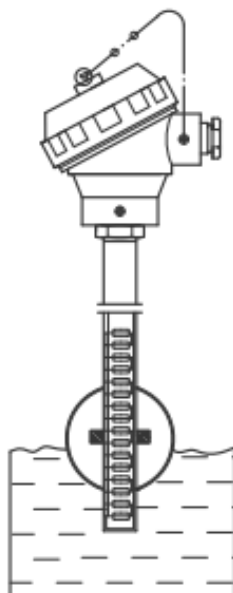
Hart Communication: available

Two Wire Transmitter Hart Protocol: Galvanic Isolation, Suitable for application in SIL 2 installations

FLOAT SPECIFICATIONS

ø75x75mm (SUS316)  Float Size: ø75 Max. Working Pressure: 30 kg/cm² Working S.G: ≥0.68 The Guide Tube Size: ø20 Material: SUS316 Limited Operating Temperature: -20~140°C	ø49x49mm (SUS316)  Float Size: ø49 Max. Working Pressure: 30 kg/cm² Working S.G: ≥0.68 The Guide Tube Size: ø12 Material: SUS316 Limited Operating Temperature: -20~140°C	ø36.2x51.5mm (SUS316)  Float Size: ø36.2 Max. Working Pressure: 30 kg/cm² Working S.G: ≥0.8 The Guide Tube Size: ø9.5 Material: SUS316 Limited Operating Temperature: -20~140°C		
ø50x70mm (PVC)  Float Size: ø50 Max. Working Pressure: 3 kg/cm² Working S.G: ≥0.7 The Guide Tube Size: ø18 Material: P.V.C Limited Operating Temp.: 0~70°C	ø50x75mm (PVDF)  Float Size: ø50 Max. Working Pressure: 5 kg/cm² Working S.G: ≥0.8 The Guide Tube Size: ø20 Material: PVDF Limited Operating Temp.: 0~120°C	ø50x75mm (P.P)  Float Size: ø50 Max. Working Pressure: 3 kg/cm² Working S.G: ≥0.7 The Guide Tube Size: ø21 Material: P.P Limited Operating Temp.: 0~60°C	ø38x38mm (P.P)  Float Size: ø38 Max. Working Pressure: 3 kg/cm² Working S.G: ≥0.7 The Guide Tube Size: ø12,SS316 Material: P.P Limited Operating Temp.: 0~60°C	ø38x38mm (PVDF)  Float Size: ø38 Max. Working Pressure: 5 kg/cm² Working S.G: ≥0.7 The Guide Tube Size: ø12,SS316 Material: PVDF Limited Operating Temp.: 0~120°C

DIMENSIONS



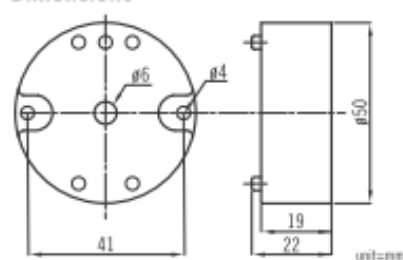
NOTE.
Head Type and Float Size, please refer to the head type and float size table.

THREAD LTHA Series	FLANGE LTFA Series	WITHOUT CONNECTION LTG Series
THREAD LTHB Series	FLANGE LTFB Series	

Transmitter Type

Potentiometer VP
Output Signals: 4~20mA DC,
 Load resistance R_L (max)=(V_S-10) x 50Ω (2-wire)
Input Range: 100Ω to 45KΩ (3-wire)
Output Adjustment Range: Zero adjustment 0~15%
Accuracy: ±0.1% F.S (at 23°C)
Linearity: ±0.1% F.S
Supply Voltage: 10~30V DC
Temp. Coefficient: ±0.02% / °C
Operating Temp.: -5~+70 / °C
Operating Humidity: 0~90% RH
Terminal: DIN Type
Installation: Head and Wall Mounting
Case Material: Nylon 6 resin (Black)
Weight: about 50 grams

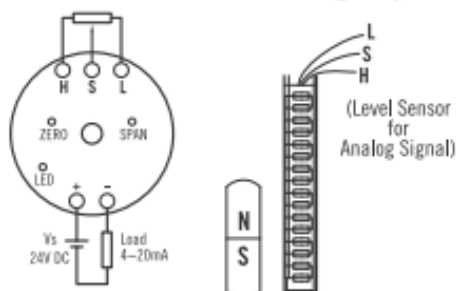
Dimensions



*HART® Communication: Available
Two Wire Transmitter with HART® Protocol
 – Galvanic Isolation
 – Suitable for application in SIL 2 installations

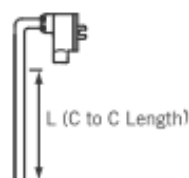


Sketch Terminal & Level Indicating Strip



Level Sensor Unit

Model: LTG



Features

- ISO 9001 and CE certificate
- High immunity to external noise
- LED indication and DC power polarity protection
- High reliability, lasting durability and low cost

Application

- Position of valve, damper and other devices

HEAD TYPE TECHNICAL DATA



HN TYPE



HP TYPE



HDS TYPE



HDA TYPE



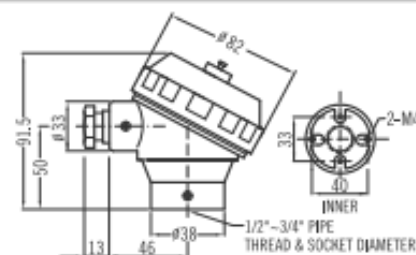
CSB/CAB TYPE



D-1000-G TYPE

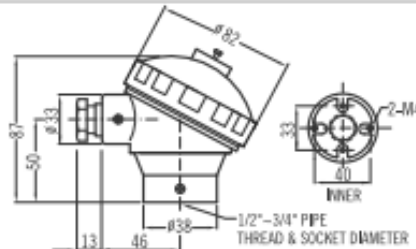
HN Type

Protection: IP68
Material: Aluminum Alloy
Weight: 264g
Protection tube connection:
 $\frac{1}{2}$ " $\frac{3}{4}$ " (PF, NPT, BSP), M20X1.5
Extension wire connection:
 $\frac{1}{2}$ " $\frac{3}{4}$ " (PF, NPT, BSP), M20X1.5
 Other specifications are available on request.



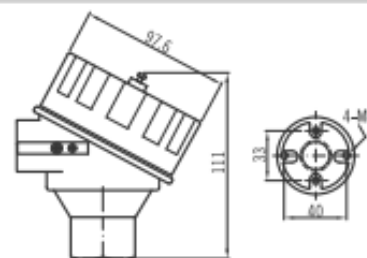
HP Type

Protection: Weather Proof Type
Material: Polypropylene
Weight: 112g
Protection tube connection:
 $\frac{1}{2}$ " NPT, $\frac{1}{2}$ " BSP
Extension wire connection:
 $\frac{3}{4}$ " NPT, M20X1.5
 Other specifications are available on request.



XDS / XDA Type

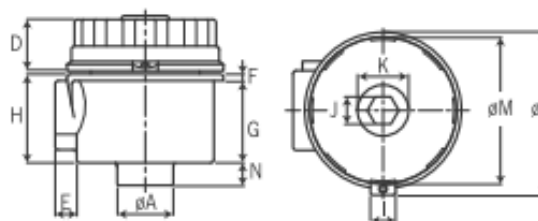
Material: XDS-SS316; XDA-Aluminum alloy
Weight: XDS-1278 g; XDA-460 g
Protection tube connection:
 $\frac{1}{2}$ " PF, $\frac{3}{4}$ " PF, $\frac{1}{2}$ " NPT, $\frac{3}{4}$ " NPT
 $\frac{1}{2}$ " BSP, $\frac{3}{4}$ " BSP, G $\frac{1}{2}$ ", G $\frac{3}{4}$ "
Extension wire connection:
 M20x1.5, M24x1.5, M25x1.5
ATEX Approvals: II 2G D
 Ex db IIC Gb
 Ex tb IIIC Db



FM Approvals: XPI/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).

CS_Series (CSB Type) / CA_Series (CAB Type)

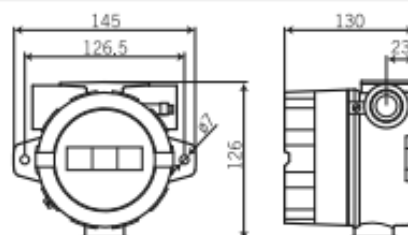
Protection: Explosion Proof Type
Material: CS-SS316; CA-Aluminum Alloy
Extension Wire Connection: Female G $\frac{1}{2}$ ", $\frac{1}{2}$ " NPT, M20 x P1.5 and G $\frac{3}{4}$ ", $\frac{3}{4}$ " NPT, M25 x P1.5



Type	Dimensions										
	gA	D	E	F	G	H	I	J	K	gM	gN
CS	34.7	33	13.8	4.2	52.8	57	13.5	17.5	32.8	102.8	14.5

D-1000-G (General Type)

Protection: Explosion Proof, Class II, Groups A, B, C & D; Class II, Groups E, F & G; NEMA 4X
Material: Aluminum or SS316 available
Extension Wire Connection:
 Female $\frac{1}{2}$ " or $\frac{3}{4}$ " NPT, others option available



ORDERING INFORMATION

LT	Code	Model
	LTHA	Thread Connection (stainless steel float)
	LTHB	Thread Connection (plastic float)
	LTFA	Flange Connection (stainless steel float)
	LTFB	Flange Connection (plastic float)
	LTG	Without Connection & Float
	Code	HART Communication (4-20mA)
	D	With HART N Without HART
	Code	Enclosure Protection
	W	Weather Proof X Explosion Proof
	Code	Process Connection Size
		(A) 2" (B) 3" (C) 2½" (D) 4" (E) 5" (F) 6" (O) Option (N) Without Connection (for LTG Series)
	Code	Process Connection Rating
	T	Thread (A) PT (B) NPT (C) PF(BSP) (P) option
	F	Flange (A) JIS 5K (B) JIS 10K (C) ANSI 150# (D) PN16 (E) ANSI 300# (F) PN20 (P) option
	O	Without Connection (for model LTG Series)
	Code	Material of Wetted Parts
		(1) SS304 (2) SS316 (3) PVC (4) PP (5) PVDF (6) SS316L (7) option (8) Titanium
	Code	Head Type
		(1) HN (2) HP (3) XDS (4) XDA (5) CS_Series (CSB type) (6) CA_Series (CAB type)
		(7) D-1000-G (please refer to the catalogue of D-1000 for more information)
	Code	Float Size
		(A) ø75(SS316) (B) ø49(SS316) (C) ø50 x 70(PVC) (D) ø50 x 75(PVDF)
		(E) ø50 x 75(PP) (F) ø38 x 38(PP) (G) ø38 x 38(PVDF)
		(H) ø36,2 x 51,5(SUS316) (O) Without float (LTG Series)
	Code	Conduit Connection-Female
		(A) ½"PF (B) ½"NPT (C) ¾"PF (D) ¾"NPT
		(E) M20 x P1.5 (F) M25 x P1.5 (O) option
	Code	Total Insertion Length
		L=_____mm
	Code	Measuring Length
		Please fill in the requested length. L1=_____mm
	Code	LCD Display
	D	With *head type (7) only N Without
	Code	Resolution Accuracy
	1	±12mm (standard) 2 ±6mm
	Code	Explosion Proof Type / Head Housing Type
	N	For weather proof type
	S	Certificate on Housing Only / XDS & XDA: II 2G D Ex db IIC Gb Ex tb IIIC Db
	B	Taiwan Explosion Proof Certification / CS & CA: Ex d IIB + H2 T6 Gb
	C	Certificate on Housing Only / D-1000-G: Class I, Groups A, B, C & D; Class II, Groups E, F & G; NEMA 4X
LT		Complete Ordering Code



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