



Small Size – Engineered Plastics

XM/XT-300 Engineered Plastics Series

Brings Continuous Output to Shallow Tanks

Your most complete line of small, polysulfone liquid level sensors...all from Gems Sensors.

- ▶ All-Plastic Wetted Parts
- ▶ 4mm Resolution
- ▶ Indicating Length to 14" (356 mm)
- ▶ U.L. Pending

Designed for the needs of the OEM, XM/XT-300 Series transmitters are the ideal level sensor for shallow tanks and reservoirs. Compact and versatile, these plastic level sensors offer a broad choice of mountings and float materials. The following pages illustrate the various design parameters available to configure the versatile XM/XT-300 Series Sensors.

1. Mounting Types

Each mounting type can be configured with stem lengths (L_0) and float materials indicated in this bulletin.



LEVEL SENSORS – CONTINUOUS

NPT Threads		Straight Threads		
Type 21 1/8" NPT	Type 22 1" NPT	Type 31 3/8" - 24	Type 32 1-5/16" - 12	Type 33 5/8" - 11
Metric Threads		Compression Types		Type 11 No Mounting
Type 41 G 1/4" (1/4" - 19 BSP)	Type 42 G 1" (1" - 11 BSP)	Type 51 M12 x 1.5 Straight Thread	Type 71 5/8" - 11	
Flange Mountings ²				
Type 61 2" O.D. Flange		Type 63 Pop Flange		

Stem, Mounting and Collar Material	Polysulfone
Max Length (L_0)	20 inches (508 mm), Tolerance of $L_0 = \pm 1/16"$ (1.6 mm)
Mounting Position	Vertical $\pm 30^\circ$ Inclination



Notes:

1. Type 71 mounting to be used with 3/4" diameter float only.
2. Not recommended for pressure applications.

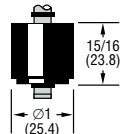
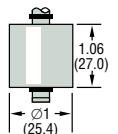
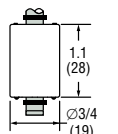
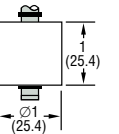
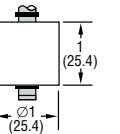
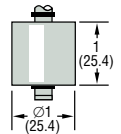
Dimensions expressed as: inches (millimeters)

FLOAT TYPE

2. Electrical Connections

	Type 1 Leadwire	Type 2 Cable
		
Compatible Mounting Type(s)	All	
Protection Rating	IP64	
Extended Leads	#22 AWG PVC Wire, 24" (610mm) Min.	#22 AWG PVC Jacketed Cable, 24" (610mm) Min.

3. Float Types

Float Material	Buna N	Polysulfone	Polypropylene			PVDF
			Solid Foamed		Hollow – 20% Glass Filled	
Float Dimensions						
Part Number	245900	39005	231500	119455	259125	174515
Float Material Suitable for...	Oil, Fuels	Water-based Liquids	Broad Chemical Use		Low Specific Gravity Liquids	Broad Chemical Use
Operating Temperature ¹	Water: to 180°F (80°C) Oil: -40°F to +221°F (-40°C to +105°C)	-40°F to +221°F (-40°C to +105°C)	-40°F to +212°F (-40°C to +100°C)		-40°F to +221°F (-40°C to +105°C)	-40°F to +250°F (-40°C to +121°C)
Pressure, psi (bar) Max. ²	250 (17)	50 (3.5)	Atmospheric	250 (17)	50 (3.5)	50 (3.5)
Min. Media Specific Gravity	0.45	0.75	0.95	0.90	0.65	0.86

Notes:

- Operating temperature range based on float ratings.
- When used with mounting Type 21, 32 or 22 only; Mounting Type 61, and 63 are not recommended for pressure applications. Pressures are derated with increasing temperature above 70°F

Dimensions expressed as: ^{inches}
(millimeters)

LEVEL SENSORS – CONTINUOUS

Also Available

XM/XT-350 Combination Siphon and Level Transmitter