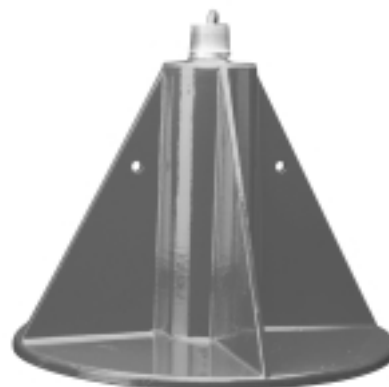


Echomax® XLS/XLT transducers use ultrasonic technology to monitor level changes in a wide range of liquids and solids applications. In conjunction with a Milltronics monitor, these transducers can easily monitor distances from 0.9 to 60 m (3 to 200 ft.) and temperatures as high as 150°C (300°F). A beam width of just 5° provides accurate readings in deep narrow tanks.

With a maximum operating pressure of 800 Kpa, (8 bar, 120 PSI) and increased signal sensitivity, Milltronics XLS/XLT transducers can operate in difficult applications such as limestone, cement clinker and hot stone. All of these models have a sealed aluminium face to withstand noisy abusive environments and are backed by Milltronics' proven reliability and performance.

During operation, Echomax transducers emit acoustic pulses in a narrow beam width, perpendicular from the transducer face. The level monitor measures the time between pulse emission and reflection (echo) reception to calculate the distance from the transducer face to the material. The integral temperature sensor is used to compensate for sound velocity variations due to changes in air temperature within the measurement range.



Product Features

- Sealed aluminium face
- Built-in temperature sensor
- Self-cleaning and low maintenance
- 2-wire interconnection
- Simple installation

Technical Specifications

	XLT-30	XLT-60	XLS-60
Range	0.9 to 30 m (3 to 100 ft.)	1.8 to 60 m (6 to 200 ft.)	1.8 to 60 m (6 to 200 ft.)
Frequency	22 kHz	13 kHz	13 kHz
Beam Angle	5°	5°	5°
Environmental			
• Location	indoor/outdoor	indoor/outdoor	indoor/outdoor
• Altitude	2000 m maximum	2000 m maximum	2000 m maximum
• Ambient Temperature	-40 to 150°C (-40° to 300°F)	-40 to 150°C (-40° to 300°F)	-40 to 90°C (-40° to 194°F)
• Pollution Degree	4	4	4
Construction			
• Material	Aluminium, 304 stainless steel, polyester and silicone, painted red	Aluminium, 304 stainless steel, polyester and silicone, painted red	Aluminium, 304 stainless steel, polyester and silicone, painted grey
• Mounting	1" NPT conduit connection	1" NPT conduit connection	1" NPT conduit connection
• Cable	2 wire shielded/twisted, 0.5 mm ² (20 AWG) silicone jacket	2 wire shielded/twisted, 0.5 mm ² (20 AWG) silicone jacket	2 wire shielded/twisted, 0.5 mm ² (20 AWG) PVC jacket
Weight (with standard cable length)	4.3 kg (9.5 lbs.)	6.6 kg (14.5 lbs.)	6.6 kg (14.5 lbs.)
Supply Source	Transducer shall only be supplied by Milltronics certified controllers.	Transducer shall only be supplied by Milltronics certified controllers.	Transducer shall only be supplied by Milltronics certified controllers.
Separation	365 m (1200 ft.)	365 m (1200 ft.)	365 m (1200 ft.)
Approvals	CE*, CSA/FM/SIRA/CENELEC	CE*, CSA/FM/SIRA/CENELEC	CE*, CSA/FM/SIRA/CENELEC

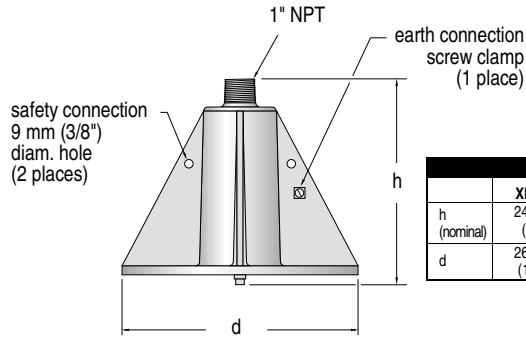
* EMC performance available upon request.

Range specifications are "typical". Actual range is dependent upon installation conditions. Maximum power is radiated axially (perpendicular) from the transducer face in a line referred to as the axis of transmission. Where power is reduced by half (-3 dB), a conical boundary defining the sound beam, centered about the axis of transmission, is established.

Specifications are subject to change without notice.

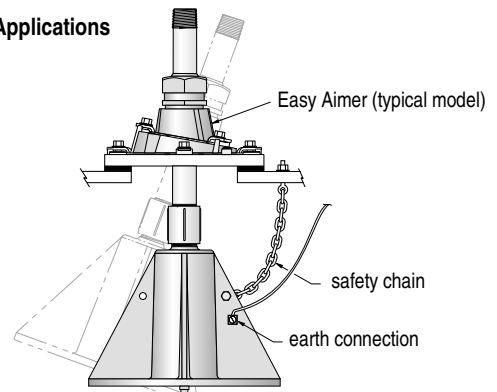
Echomax XLS and XLT Transducers

Dimensions

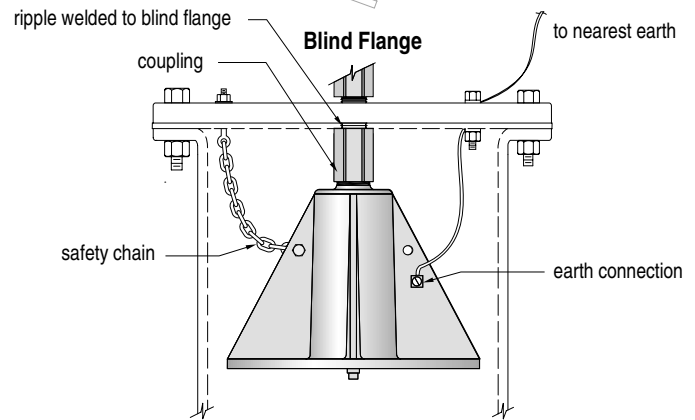
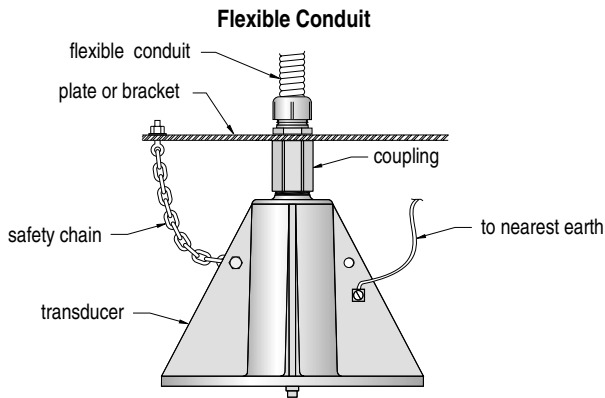


	Model	
	XLT-30	XLS/XLT-60
h (nominal)	249 mm (9.8")	324 mm (12.75")
d	264 mm (10.4")	335 mm (13.2")

Mounting – Solids Applications

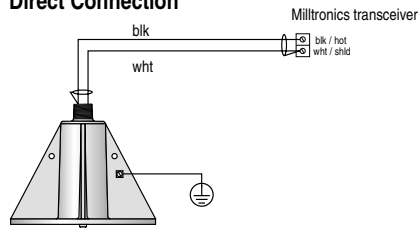


Mounting – Liquid Applications

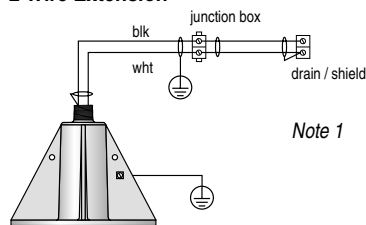


Wiring

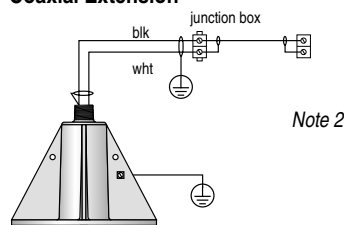
Direct Connection



2 Wire Extension



Coaxial Extension



Notes

1. Extend cable using 18 AWG shielded / twisted pair up to 100 m (333 ft.).
2. Extend cable using RG-62 A/U coax for optimum signal to noise ratio up to 365 m (1200 ft.).



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