Ultrasonic Level Transmitter - Liquid Content (Fixed Ranges)



Product Overview

The AX-UL-SP is a robust non display fixed range of IP68-rated ultrasonic level transmitters for tanks and sumps, offering non-intrusive measurement with a standard 4–20mA output. These non display ultrasonic level transmitters are available in 3m, 4m, 5m, 6m, 8m, 10m, 12m, 15m. 18m & 25m ranges, with optional Relay and HART output.

AX-UL-SP is designed to monitor liquid level in sumps or tanks, for tank contents measurement, or open channel flow measurement. Separate models are available for water and diesel.



Products Features

- Non-contact level measurement
- Maximum 25 m (82 ft) measuring range
- Full temperature compensation
- For most liquids, including flammable liquids
- 2-wire integrated level transmitters
- Level measurement in basins, wells, sumps, lift-stations
- Wide application area from wastewater to aggressive chemicals
- Suitable for level measurement of hydrocarbons, acids, aggressive liquids, any water based medium

Product Specifica	ations		
Measuring Range:	From 0.15 Meter up to 3/4/5/6/8/10/12/15/18 & 25 Meters		
System:	2 Wire		
Accuracy:	AX-UL-SPx-5 \pm (0.1% of measured distance +0.025% of Range) \pm (0.05% of range)		
	AX-UL-SPx-3 \pm (0.2% of measured distance +0.05% of range)		
Output:	Analogue (4-20mA) + SPDT, 30V DC, 1A DC, HART® 7		
Ambient Temperature:	-30°C to +80°C (-22°F to +176°F)		
Process Temperature:	AX-UL-SPx-5	PP, PVDF transducers: -30°C to +90°C (-22°F to +194°F)	
	AX-UL-SPx-3	With PP transducer: -20°C to $+70^{\circ}\text{C}$ (-4°F to $+158^{\circ}\text{F}$)	
		With PVDF transducer: -20° C to $+80^{\circ}$ C (-4° F to $+176^{\circ}$ F)	
Power Supply:	AX-UL-SPx-5	11–36V DC	
	AX-UL-SPx-3	12–36V DC/ 48–720 mW	
Housing:	AX-UL-SPx-5	PP or PVDF	
	AX-UL-SPx-3	PP or PVDF (Teflon PTFE has PP housing)	
Electrical Connection:	4x 0.5 mm ² (AWG20) (relay version: 7x 0.5 mm ² [AWG20]) shielded Ø6 mm (0.25 inch) cable;		
	Standard cable length: 5 m (16.5 ft)		
	(can be ordered up to 30 m [100 ft])		
Ingress Protection:	IP68		
Weight:	AX-UL-SPx-5	0.8 – 1.2 Kg (1.8 – 2.65 lb)	
	AX-UL-SPx-3	1.2 – 2 Kg (2.65 – 4.4 lb)	
Country Of Origin:	Hungary		

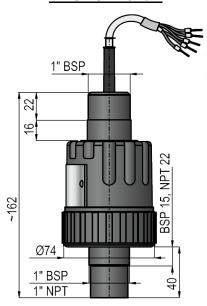
Product Order Codes		
AX-UL-SPA-5A0-4	Ultrasonic Level Transmitter (Clean & Waster Water), 4-20mA/HART O/P, 0.15-3 Meters, PP Housing, 1" BSP Thread	
AX-UL-SPA-590-4	Ultrasonic Level Transmitter (Clean & Waster Water), 4-20mA/HART O/P, 0.18-5 Meters, PP Housing, 1½" BSP Thread	
AX-UL-SPA-580-4	Ultrasonic Level Transmitter (Clean & Waster Water), 4-20mA/HART O/P, 0.2-8 Meters, PP Housing, 2" BSP Thread	
AX-UL-SPA-570-4	Ultrasonic Level Transmitter (Clean & Waster Water), 4-20mA/HART O/P, 0.25-10 Meters, PP Housing, 2" BSP Thread	
AX-UL-SPA-560-4	Ultrasonic Level Transmitter (Clean & Waster Water), 4-20mA/HART O/P, 0.25-12 Meters, PP Housing, 2" BSP Thread	
AX-UL-SPA-540-4	Ultrasonic Level Transmitter (Clean & Waster Water), 4-20mA/HART O/P, 0.35-18 Meters, PP Housing, 2" BSP Thread	
** Replace "-4" with "-N" for Relay Output, Replace "A" with "B" for PVDF Housing		
AX-UL-SPA-390-4	Ultrasonic Level Transmitter (Clean & Waster Water), 4-20mA+HART O/P, 0.2-4 Meters, PP Housing, 1",1½" BSP Thread	
AX-UL-SPA-380-4	Ultrasonic Level Transmitter (Clean & Waster Water), 4-20mA+HART O/P, 0.25-6 Meters, PP Housing, 2" BSP Thread	
AX-UL-SPA-370-4	Ultrasonic Level Transmitter (Clean & Waster Water), 4-20mA+HART O/P, 0.35-8 Meters, PP Housing, 2" BSP Thread	
AX-UL-SPA-360-4	Ultrasonic Level Transmitter (Clean & Waster Water), 4-20mA+HART O/P, 0.35-10 Meters, PP Housing, 2" BSP Thread	
AX-UL-SPA-340-4	Ultrasonic Level Transmitter (Clean & Waster Water), 4-20mA+HART O/P, 0.45-15 Meters, PP Housing, 2" BSP Thread	
AX-UL-SPA-320-4	Ultrasonic Level Transmitter (Clean & Waster Water), 4-20mA+HART O/P, 0.6-25 Meters, PP Housing, 2" BSP Thread	
** Replace "-4" with "-H" for Relay Output, Replace "-8" for EXP version, Replace "A" with "B" for PVDF Housing		

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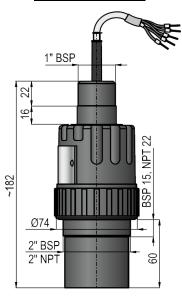


Dimensions/ Drawing

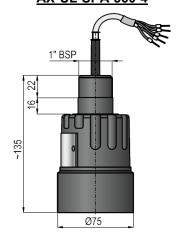
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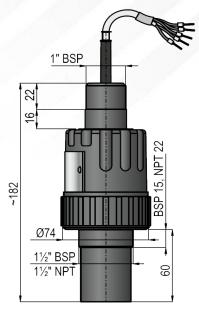
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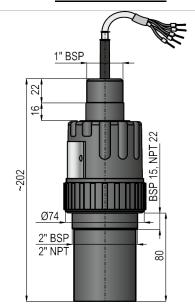
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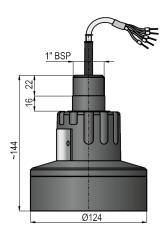
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AX-UL-SPA-570-4



AX-UL-SPA-540-4

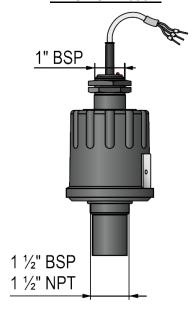


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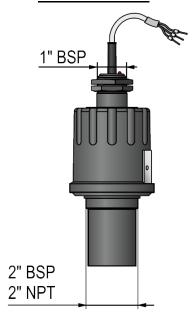


Dimensions/ Drawing

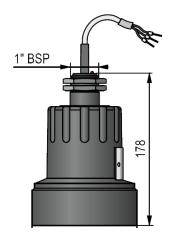
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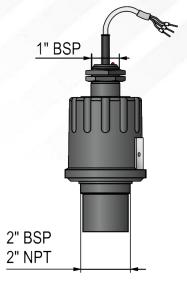
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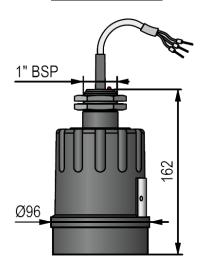
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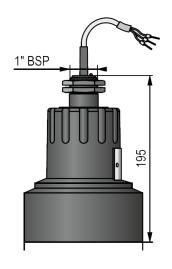
AX-UL-SPA-380-4



AX-UL-SPA-360-4



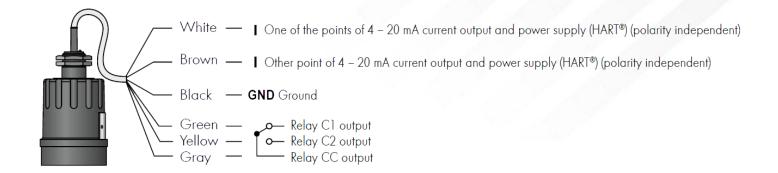
AX-UL-SPA-320-4



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Wiring Diagram



Datasheet Contents

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