



**NEW!**  
Product

### DESCRIPTION

The ultrasonic level sensor provides a continuous level measurement from 5" (12 cm) up to 78" (200 cm). It has both a 4 -20 mA analog output and 4 digital outputs. With no moving parts, the ULS level is highly reliable for dirty and sticky environments. This all-metal enclosure allows for a easily adjustable sensor that is also rugged.

### FEATURES

- No moving parts
- Rugged all-metal enclosure
- Continuous non contact measurement
- Slosh/filtering option

### APPLICATIONS

- Water tanks
- Hydraulic units

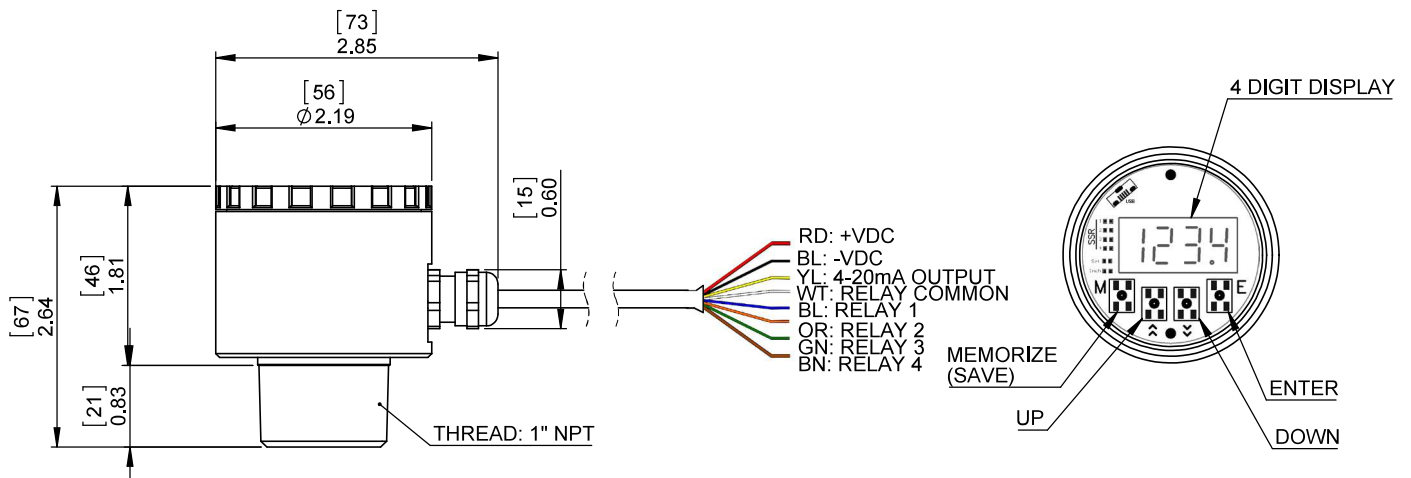
### Specifications

Range	78" (200 cm) from sensor surface at 32°F (22°C)
Accuracy	0.5% max distance (perpendicular to surface)*
Dead Zone	5" (12 cm) from sensor face
Beam Angle	12° ± 2°
Ultrasonic Frequency	112 kHz
User Interface	Field Adjustable (push buttons and display) or Windows (mirco USB)
Memory	Non-volatile
Supply Voltage	10 - 36 VDC (100mA maximum)
Analog Output	4-20mA **
Contact Type	(4) Normally Open SPST relays (0.4A) and 4-20 mA
Contact Hysteresis	Adjustable, 0 to 100%
Ambient Temperature	14°F to 140°F (-10°C to 60°C)
Enclosure Materials / Rating	IP65 Powder Coated Aluminum
Exposed Materials	Epoxy, Stainless steel, Aluminum
Cable Type	8-conductor shielded cable
Process Connection	1" NPT Stainless Steel
Optional Accessory	2" NPT PVC fitting. Recommended for optimal sensor performance

\* in stable homogeneous standard environment  
(affected by temperature gradients, vapors, supply voltage)

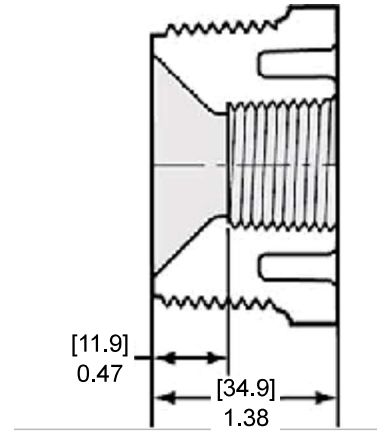
\*\* conversion error rate 0.2%

### Dimensions



Wiring Code	
CONTACT	FLYING LEADS
RED	+VDC
BLACK	-VDC
YELLOW	4-20 mA Output
WHITE	Relay Common
BLUE	Relay 1
ORANGE	Relay 2
GREEN	Relay 3
BROWN	Relay 4

### TM3216 Bushing Dimensions



### Ordering Information

**Field Adjustable**    **ULS** - <sup>1</sup>**R** - <sup>2</sup>**16M** - <sup>3</sup>**78**

- 1 - Output Type:**
- A** - Analog Output
  - R** - 4 Relay Output
  - D** - Analog and 4 Relay Output

**2 - 16M** - 1" NPT thread

- 3 - Cable Length:**
- 78** - 78 inches (2 meter cable)
  - 275** - 275 inches (7 meter cable)

- 1 - Accessories (Recommended optional separate item)**
- TM3216** - 2" NPT PVC isolating bushing, Recommended for optimal performance

Note: Please see page 52 for other available options