



## MAGNE-SONICS® MS 100 Ultrasonic gap Liquid Level Switch

### FEATURES

- No moving parts
- Epoxy painted enclosure
- DPDT relay, Fail Safe High
- No calibration
- Encapsulated electronics
- CL.I, Div. 1 & 2, GRP C & D
- CL.II, Div. 1 & 2 , GRP E,F,&G

### OPERATION

The Magne-Sonic Model MS-100 series Liquid Level Switch is a compact integral ultrasonic gap switch with all 316-SST or Teflon Wetted parts.

It uses proven ultrasonic technology to operate in virtually any liquid regardless of viscosity. The MS-100 utilizes a gap sensor with internal piezoelectric crystals to transmit and receive an ultrasonic signal. When liquid is present the ultrasonic signal is transmitted across the “gap” and sensed by the receiving crystal which in turn generates an electrical signal. The electronic module detects this change and produces a change in the DPDT output relay state or 4 mA dry, 20 mA wet output.

The MS-100 consist of a 316-SST or Teflon sensor and an integral mini-turized, encapsulated electronics which is mounted in a cast aluminum, Explosion Proof , NEMA 4X enclosure.

### SPECIFICATIONS

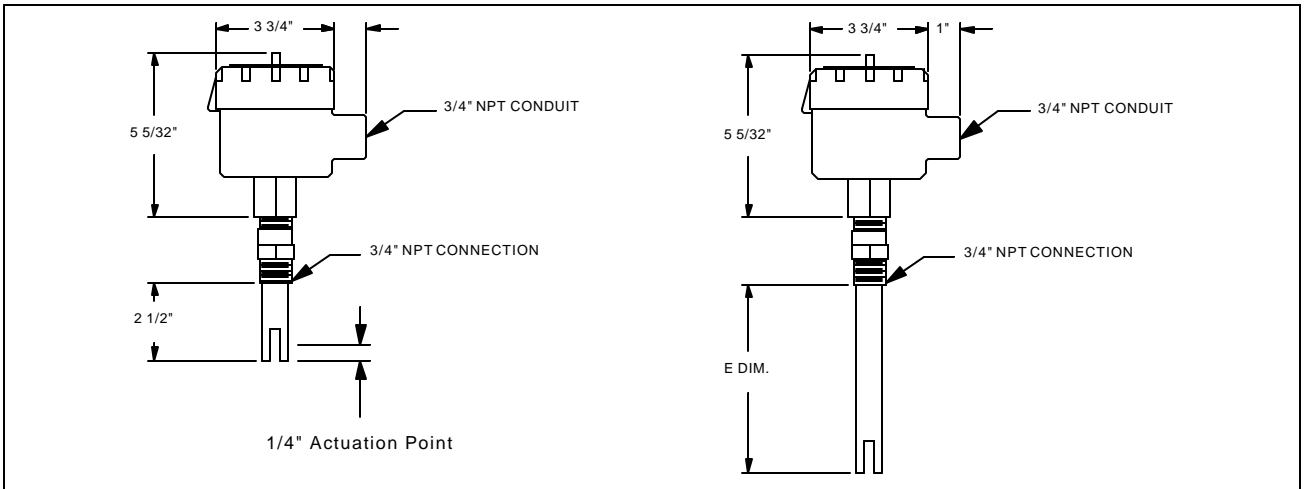
Power Supply:	115 or 230 VAC 24 VDC
Output:	DPDT 10 AMP Two wire 4-20 mA
Repeatability:	2mm typical
Delay (On):	0.5 seconds (standard)
Temperature:	Sensor -40°F to 300° F Electronics -20°F to 170° F
Operating Pressure:	316-SST 1000 PSIG Teflon 100 PSIG
Connection:	3/4” NPT
Enclosure:	Epoxy Coated NEMA 4X & 7
Mounting:	Integral or Remote
Approvals:	FM/CSA Pending

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## MAGNE-SONICS

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## DIMENSIONS



## MODEL SELECTION GUIDE

MS100	ULTRASONIC GAP SWITCH					
	<b>CODE</b>	<b>POWER INPUT</b>				
	1	115 VAC				
	2	230 VAC				
	3	24 VDC				
	0	SPECIAL				
		<b>CODE</b>	<b>OUTPUT</b>			
		1	DPDT-10 AMPS			
		2	TWO WIRE, 4mA - DRY, 20mA - WET			
		3	DPDT- 10 AMPS (HERMETICALLY SEALED)			
			<b>CODE</b>	<b>ELECTRONICS</b>		
			1	INTEGRAL		
			2	REMOTE		
			0	SPECIAL		
				<b>CODE</b>	<b>SENSOR MATERIAL</b>	
				S	316-SST	
				T	TEFLON	
				0	SPECIAL	
					<b>CODE</b>	<b>"E" EXTENSION LENGTH</b>
					00	STANDARD 2 1/2"
					E	LENGTH (120" MAX.)
<b>MS100</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>S</b>	<b>00</b>	<b>TYPICAL MODEL NUMBER</b>

**Quality...Reliability...Service**

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