

### Hermetically Sealed Proximity Sensors and Transient/Surge Absorption Circuitry

## AccuTrak® 2200

### General Purpose/Explosionproof

#### Designed to Survive the Industrial Environment

Valve position monitors in process plants are continually plagued by adverse operating conditions which frequently result in unit malfunction. Moisture causes unwanted paths to form in electrical circuits. Cams, secured by set screws, continually lose calibration. Proximity sensors are subject to harm from voltage and current surges.

The Accutrak 2000 is virtually maintenance free! With hermetically sealed sensors, no set screws for cam adjustment, elevated terminal strip and transient protection, no unit available today is better protected against corrosion and inductive spikes.

#### Hermetically Sealed Proximity Sensors

The AccuTrak 2200 employs proximity sensors for feedback of valve performance to micro-computers or PLCs. Sealed against explosive gases,

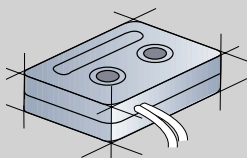
water and corrosive chemicals, these sensors have a low contact resistance of .1 ohms, thereby eliminating "spikes" that may damage sensitive electronic interface equipment.

#### Transient Suppression

Each monitor is protected against inductive spikes by a circuit board employing plug-in fuses and varistors capable of absorbing transients of up to 2500 amps produced by lightning, switching surges and capacitive discharges.



#### Standard Sensor Options

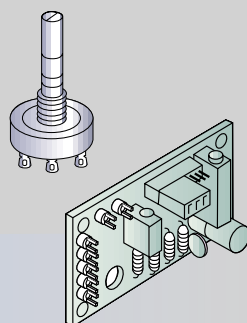


#### Hermetically Sealed Proximity Sensor

	SPST	SPDT
Contact Resistance (ohms)	.100	.150
Contact Rating* (AC, DC) (Watts)	10	3
Volts (max) (AC, DC)	200	200
Amps (max) (switching)	.5	.25
Amps (max) (carry)	1.2	1.2

\* Resistive: Reduce rating to 1/3 for inductive loads.

#### 0-100% Position Transmission



#### Resistive Output Signal

Standard Output Signal	1000 ohms
Power Rating at 70°C	1 watt
Elements	Conductive Plastic
Rotational Life (no load)	100,000 cycles

#### Current Output Signal

Standard Output Signal	4-20 mA DC, 2 wire
Power Requirements	5-38 VDC
Max. Load Resistance at 24 VDC	950 ohms
Operating Temperature	-24°C to 85°C

# AccuTrak® 2200

### AREA CLASSIFICATIONS

NEMA 4, 4x, 7, 9  
 Class I, Groups C, D  
 Class II, Groups E, F, G,  
 Divisions 1 & 2

### ENCLOSURE

Conduit Entries	NEMA 4: (1) 1/2" NPT NEMA 4, 4x, 7, 9: (2) 3/4" NPT
Terminal Strip	8 contacts standard 16 contacts available

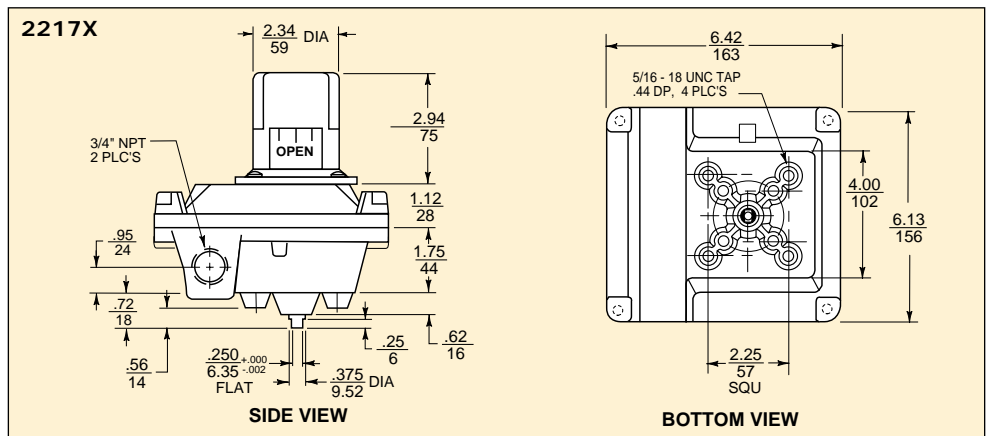
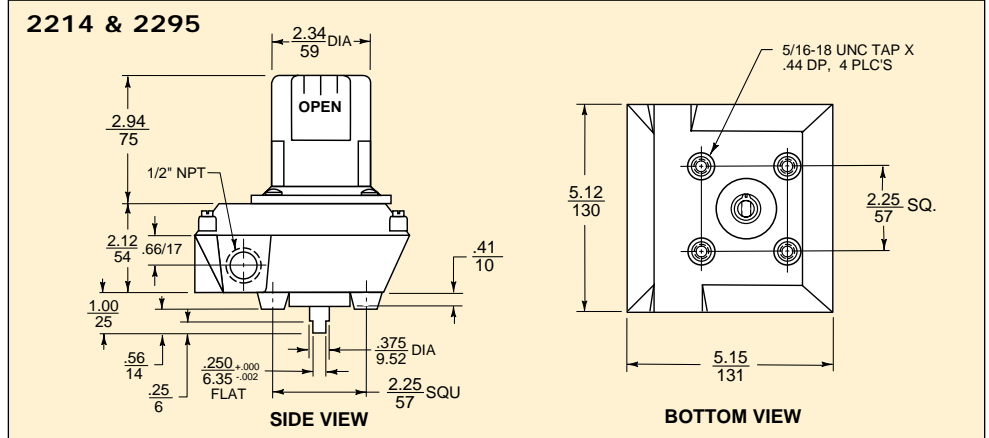
### MATERIALS OF CONSTRUCTION

Housing	Die Cast Aluminum
Cover	Die Cast Aluminum
Coating	Polyurethane
Shaft	Stainless Steel
Fasteners	Stainless Steel
Beacon	Copolyester


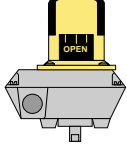

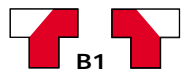

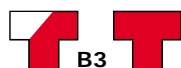


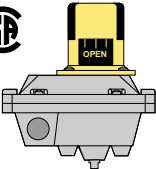

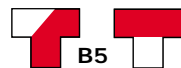



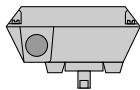


### APPROVALS / CERTIFICATION

UL (Underwriters Laboratories, Inc.)  
 CSA (Canadian Standards Association)

### DIMENSIONS (inches /mm)



### ORDERING GUIDE

ENCLOSURE	BEACON™	3-WAY BEACON™	TRANSMITTERS
<b>2214</b> Proximity Sensors NEMA 4, 4x  	<b>STANDARD</b> (Black & Yellow) <b>BY</b> 	90° Rotation  <b>B1</b>	1000 ohms <b>RS</b>
	<b>ANSI YELLOW</b> (Inherently Hazardous) <b>AY</b> 	90° Rotation  <b>B3</b>	4-20 mA <b>CS</b>
<b>2217X</b> Proximity Sensors NEMA 4, 4x, 7, 9 Class I, Grps. C & D Class II, Grps. E, F & G Divisions 1 & 2   	<b>ANSI GREEN</b> (Liquid-Low Hazard) <b>AG</b> 	90° Rotation  <b>B5</b>	
	<b>ANSI BLUE</b> (Gas-Low Hazard) <b>AB</b> 	180° Rotation  <b>B7</b>	
<b>2295</b> Proximity Sensors NEMA 4, 4x No output shaft (cannot accept beacon)  	<b>ANSI RED</b> (Fire Quenching) <b>AR</b> 	180° Rotation  <b>B9</b>	

**Ordering Example:** Dual Display Monitor (2 SPST sensors) with standard black and yellow Beacon, 1000 K potentiometer. **2214-BY-RS**

**Options Available:** 4 SPST sensors or 4 SPDT sensors (2217X only), epoxy coatings, anodizing, gold alloy contacts, optional terminal strips, resistive outputs. (Consult Price Sheet)