



	<b>PRODUCT CATEGORY:</b>
	INCLINOMETERS + TILT SENSORS

## MEMS Tilt Transmitter

The MEMS Tilt Transmitter is capable of measuring 359° of tilt. It is ideal for transmitting the angle changes of sewer flaps and crane booms and in other applications where similar measurements are required.

The sensor, which is based on a triaxial accelerometer, is housed in a NEMA Type 4X, IP68 enclosure. It also conforms to the Canadian Electrical Code criteria for installations in Class I, DIV I and Class II, III DIV I hazardous locations and is CSA /FM / ATEX / IECEx approved.

The alignment of the 4 mA point and the sensing polarity can be set either in the XZ or YZ plane at time of order.

### > APPLICATIONS

Sewer flap angle.	Crane boom angle.
All static/quasi-static 0-359° tilt and inclination measurements.	
Ideal for general, industrial and explosion proof applications.	

### > FEATURES

Measurement in XZ or YZ plane.	Enclosure NEMA 4X, IP66/68
Rated for installations in CLASS I, DIV I GROUPS B, C & D CLASS II, III, DIV I GROUPS E, F & G Hazardous locations	ATEX & IECEx : I M2, II 2GD T6 (85°C), Ex d I, Ex d IIC, Ex tD A21 T85°C IP68, Ta = - 40°C to +85°C
CSA/ FM / ATEX / IECEx certified	Conduit entry : 1/2 inch NPT

### > BENEFITS

✓ Increase Safety	✓ High Accuracy
✓ Increase Productivity	✓ High Reliability

### SPECIFICATIONS

ITEM	SPECIFICATION
Range F.S.	0 - 359° maximum, customer specified sub-range
Output	4 - 20 mA - 2 wire loop powered
Minimum Terminal Voltage	8.5 VDC
Maximum Terminal Voltage	28 VDC
Accuracy	0.30°
Resolution	0.15°
Temperature Drift	0.02° per °C typ
Bandwith	DC - 8 Hz
Enclosure	Stainless Steel NEMA Type 4X, IP68
Conduit Entries	0.5" NPT
Sensor	MEMS Triaxial Accelerometer
Operating Temp.	-40 to 85°C (-104 to 185°F)

### ORDERING

Please refer to the chart below to produce your part number which will reflect the specifications you choose:

**EXAMPLE PART #:**  
**ICEX360A B YZ (-10) (+50)**

**SERIES:** I

**OUTPUT TYPES:** B) 4 - 20 mA

**PLANE:** XZ  
YZ

**RANGE**  
(see figures at left):  
at 4 mA: -10°  
at 20 mA: +50°