
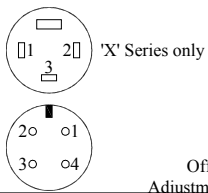
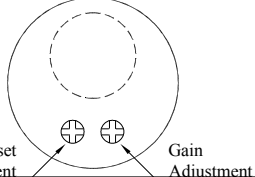


Generic Intrinsically Safe Sensor Installation Information

ATEX Qualified to Intrinsic Safety Standard Certificate number Sira 00ATEX2076X		 I/IIC M1/1GD EEx ia I/IIC T4 (Ta = -40°C to +80°C) Ex iaD 20 T135°C (Ta = -40°C to +80°C)	
Supply Voltage: +5V +/- 0.5 Volts		O/P Volts at sensor +0.5 to +4.5V for 5V supply	
Pin No. / Cable Colour		Connector pin layout: Wide pin '4' 	
1 / Red	+ 5 V Supply	Sensor Adjustments 'X' Series only 	
2 / White	Output		
3 / Black	0 V		
4 / Wide Pin / Screen	Case		

Putting Into Service

The sensor must be used with a Galvanically isolated three terminal barrier designed to supply the sensor with a nominal 5V and to transmit the buffered output to a safe area. Various Barrier output versions are available. The barrier must conform to:

Ui	11.4V
Ii	0.46A
Pi	0.51W

The sensor is certified to be used with up to 150m of cable with parameters not exceeding;
 Capacitance 0.55uF total
 Inductance 0.66uH/m

The performance of the sensor may be affected by voltage drops in long cables. 5 wire connections may be use to eliminate this error. The typical supply current is 10mA and the sensor output is ratiometric to the supply voltage at the sensor.

Use

The sensor is designed to measure Linear or Rotary displacement and provide an analogue output voltage. See the specific product Information sheet for details.

For units supplied with cable the free end must be appropriately terminated.

Assembly and Dismantling

The unit is not to be serviced or dismantled and re-assembled by the user.

Maintenance

No maintenance is required.

For Dust applications Dust layer must not exceed 50mm depth.

Installation

See the specific product Information sheet for details.

Gain and Offset Adjustment may be available on some 'X' series units.

If provided;- To adjust the gain or the offset remove the taprite screws from the cover and insert a small potentiometer adjuster or screwdriver 2mm across, 20mm long. The trim potentiometers are accessed through holes in a metal plate inside the sensor. Do not apply too much force on the potentiometers. The other electronics are protected from damage by an inner metal lid.