

# INTRINSICALLY SAFE



## Cylinder LIPS X113 Installation Information

<b>ATEX Qualified to Intrinsic Safety Standard</b> Certificate number Sira 00ATEX2076X		IIC 1G EEX ia IIC T4 (Ta = -40°C to +80°C)
Supply Voltage: <b>+5V +/- 0.5 Volts</b>	O/P Volts at sensor <b>+0.5 to +4.5V for 5V supply</b>	
Cable Colours		
<b>Red</b>	+ 5 V Supply	
<b>White</b>	Output	
<b>Black</b>	0 V	
<b>Screen</b>	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 parameters must not exceed:- **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 :-

$$\text{Capacitance} = \mathbf{550\ nF\ total} \quad \text{Inductance} = \mathbf{0.66\ \mu H/m}$$

The performance of the sensor may be affected by voltage drops in long cables. These can be eliminated by using a 5 wire connection. 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 displacement and provide an analogue output voltage. Start of normal travel is 4.5mm from fully in position. Gain and Offset Adjustment may be available on some units.

### Assembly and Dismantling

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

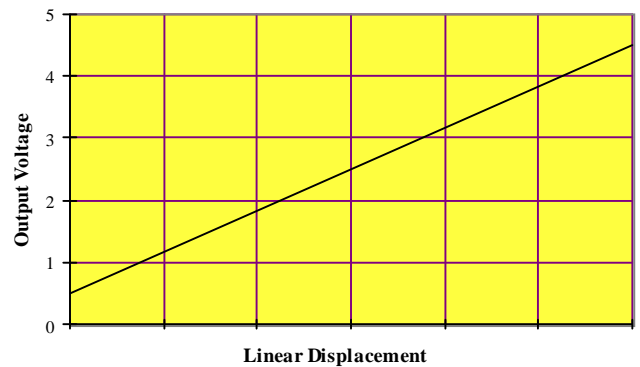
### Maintenance

No maintenance is required.

### Mechanical Mounting

Mount by the M5 threads on body and target or the Rod Eyes if provided. The body may also be held in a clamp.

**LIPS 104 Output Characteristic**



### Warning: The device is not protected against reverse polarity.

It will not, however, be damaged by mis-connection to a 5V supply limited to less than 50 mA.



**For more information, please contact:**  
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