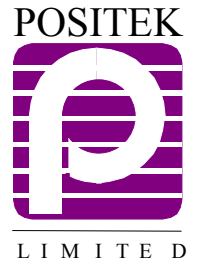

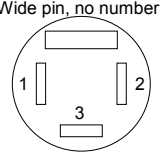
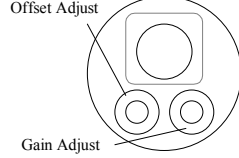


INTRINSICALLY SAFE



Cylinder LIPS X100 Installation Information

ATEX Qualified to Intrinsic Safety Standard Certificate number Sira 00ATEX2076X		 IIC 1G EEX ia IIC T4 (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 Pins	Adjusters
1 / Red	+ 5 V Supply		
2 / White	Output		
3 / Black	0 V		
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 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 :-

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

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. The start of calibrated travel is with the target end face 36 mm from the seal face. The output increases as the target is moved away from the sensor body.

Assembly and Dismantling

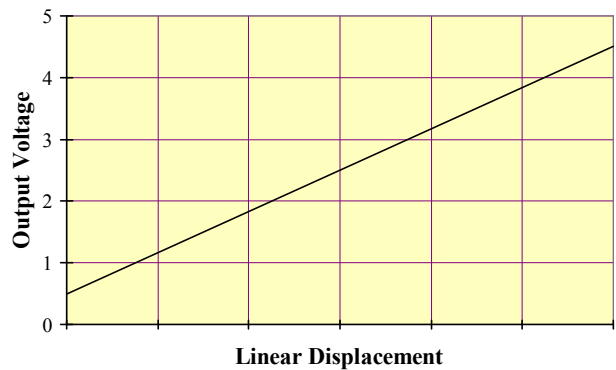
The unit is not to be serviced or dismantled and re-assembled by the user.

Maintainance No maintainance is required.

Installation - Mechanical Mounting

O ring seal provided size BS908 for M20 & 3/4 UNF thread, 14.3 x 2.4 for M18 thread. Maximum torque tightening: 100Nm. Install target tube using flange provided or fix directly into the piston rod using an adhesive etc. End of target tube to be flush with or proud of piston end face.

LIPS 100 Output Characteristic



Gain and Offset Adjustment may be available on some units.

If provided:- To adjust the gain or the offset remove the taptite screw 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 the metal lid.

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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