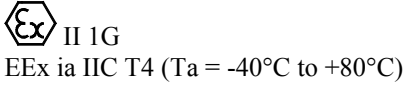


Installation Information

LIPS[®] X100 CYLINDER – LINEAR POSITION SENSOR

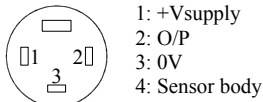
INTRINSICALLY SAFE FOR HAZARDOUS GAS/VAPOUR ATMOSPHERES

ATEX Qualified to Intrinsic Safety Standard Certificate number Sira 00ATEX2076X

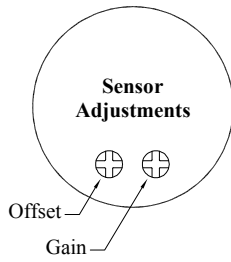
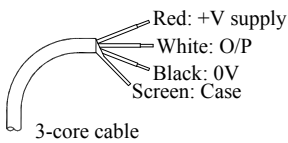
Output Description:	Barrier Supply Voltage:	Barrier Output:	
Voltage (BX002)	20-35V dc	0.5 to 9.5V	
Current Loop (BX003)	20-35V dc	4-20mA	

Connector pin layout:

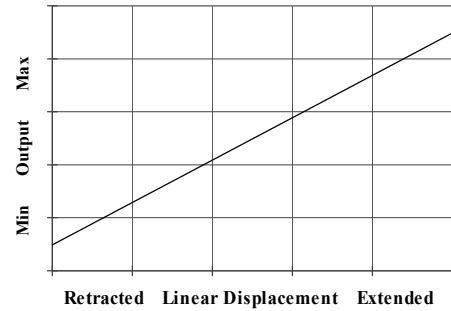
Wide pin '4'



Conductor Identification:



Output Characteristic - Standard



Putting Into Service:

The sensor must be used with a galvanically isolated three port 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:-
 Capacitance = **550 nF** total, Inductance = **0.66uH/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 signal.

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

Maintenance: No maintenance is required.

Gain and Offset Adjustment: (Where accessible - Typically ± 10% Min available)

To adjust the gain or offset use a small potentiometer adjuster or screwdriver 2mm across. Do not apply too much force on the potentiometers.

Mechanical Mounting:

Via mounting thread, maximum tightening torque: 100Nm. For fluid ingress protection an O ring seal is provided, size BS908 for M20 & 3/4 UNF thread or 14.3 x 2.4 for M18 thread.

Install the target tube using the flange provided or fix directly into the piston rod using adhesive for instance, the end of the target tube can be proud or flush with the piston end face as required.

Output Characteristic:

Target position at start of normal travel is 36.25 mm from seal face.

The output increases as the target is moved away from the sensor body, the calibrated stroke is between 20 and 600 mm.

Incorrect Connection Protection levels:-

Not protected – the sensor is **not** protected against either reverse polarity or over-voltage. The risk of damage should be minimal where the supply current is limited to less than 50mA.