

# Installation Information

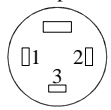
## LIPS<sup>®</sup> 100 Cylinder - Linear Position Sensor



Electronics Option	A	B	C	D	E	F	H
<b>Output Description:</b>	Voltage ratiometric with supply	Voltage	Voltage	Voltage	2 wire 4 to 20mA	3 wire 4 to 20mA Sink	3 wire 4 to 20mA Source
<b>Supply Voltage (Vs):</b>	5±0.5V	±13 to 17V	13 to 28V	±13 to 17V	18 to 28V	13 to 28V	13 to 28V
<b>Output:</b>	0.5 to 4.5V	±5V	0.5 to 9.5V	±10V	4 to 20mA	4 to 20mA	4 to 20mA
<b>Load resistance: (inclusive of leads for 4 to 20mA versions)</b>	2kΩ min	1kΩ min	5kΩ min	5kΩ min	R <sub>L</sub> = V <sub>s</sub> -18/20mA 300Ω @ 24V	R <sub>L</sub> = V <sub>s</sub> -5/20mA 950Ω @ 24V	300Ω max
<b>Load connected to:</b>	0V	0V	0V	0V	In supply lead	V <sub>s</sub>	0V

### Connector pin layout:

Wide pin '4'



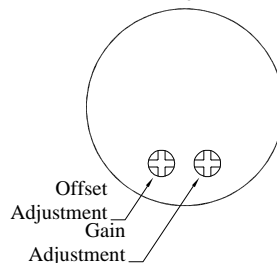
- 1: +V supply
- 2: O/P
- 3: 0V
- 4: Sensor body 'A','C','E-H',  
-V supply options 'B' or 'D'

### Cable conductor colours:

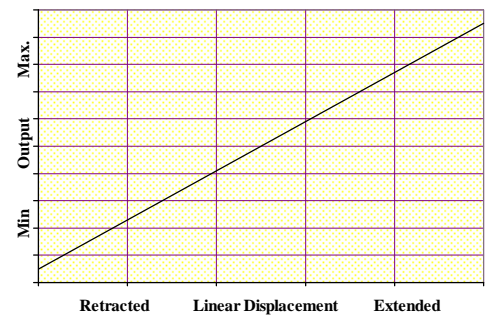
- Red: +V supply
- White/Blue: O/P
- Black/Green: 0V
- Yellow: -V supply options 'B' or 'D'
- Screen: Sensor body



### Sensor Adjustments



Output Characteristic



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

To adjust the gain or offset remove the tapite screw from the cover and insert a small potentiometer adjuster or screwdriver 2mm across, 30mm long. The trim potentiometers are accessed through holes in the cover; the other electronics are protected from damage by a inner lid. 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:-

- A **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.
- B & D Supply leads diode protected. Output must not be taken outside ± 12V.
- C Supply leads diode protected. Output must not be taken outside 0 to 12V.
- E, F & H Protected against any misconnection within the rated voltage.

### For further information, please contact:

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