

Installation Information

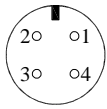
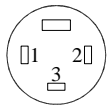
LIPS® 111 Rugged Linear Position Sensor



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

Connector pin layout:

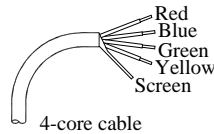
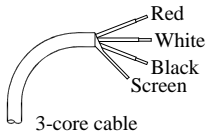
Wide pin '4'



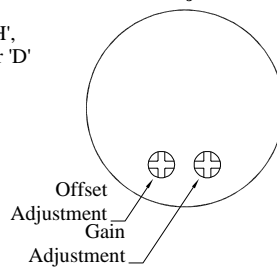
- 1: +V supply
- 2: O/P
- 3: 0V
- 4: Sensor body 'A','C','E-H',
-V supply options 'B' or 'D'

Cable conductor colours:

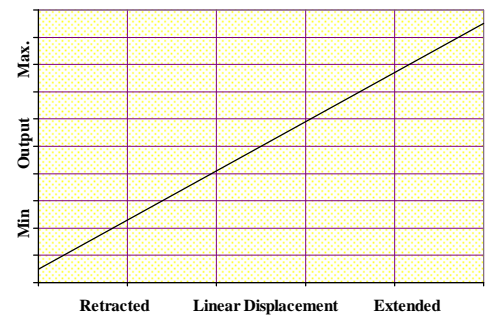
- Red: +V supply
- White/Blue: O/P
- Black/Green: 0V
- Yellow: -V supply options 'B' or 'D'
- Screen: Sensor body



Sensor Adjustments



Output Characteristic



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

To adjust the gain or offset remove the taprite 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:

Depending on options; Body can be mounted by M8 rod eye or body clamps are available. Target by M8 female thread or rod eye.

Output Characteristic:

Target is extended 7 mm from end of body at start of normal travel.

The output increases as the target extends from the sensor body, the calibrated stroke is between 50 and 600 mm.

Warning - the connector on 'K' coded sensors can be rotated for purposes of convenient orientation of the connector and cable, however rotating the connector more than one complete revolution is not recommended. Repeated rotation of the connector will lead damage to the internal wiring.

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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