

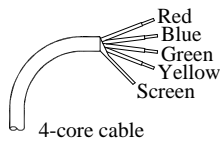
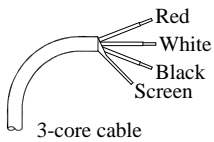
# Installation Information

## LIPS<sup>®</sup> P114 SUBMERSIBLE STAND-ALONE LINEAR POSITION SENSOR

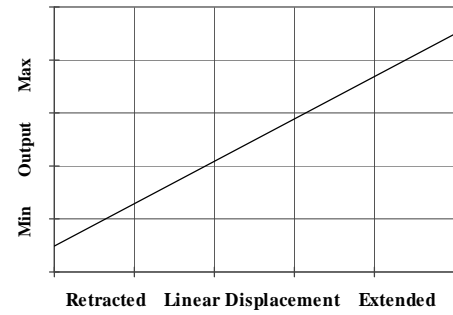
Electronics Option	Output Description:	Supply Voltage: (Vs)	Output:	Load resistance: (include leads for 4 to 20mA O/Ps)	Load connected to:
<b>A</b>	Voltage (ratiometric with supply)	5±0.5V	0.5 to 4.5V	2k min	0V
<b>B</b>	Voltage	±9 to 28V	±5V	2k min	0V
<b>C</b>	Voltage	13 to 28V	0.5 to 9.5V	5k min	0V
<b>D</b>	Voltage	±13.5 to 28V	±10V	5k min	0V
<b>E</b>	2 wire Current Loop	18 to 28V	4 to 20mA	$R_L = \frac{V_s - 18}{20\text{mA}}$ 300 @ 24V	In supply lead
<b>F</b>	3 wire Current Loop - Sink	13 to 28V	4 to 20mA	$R_L = \frac{V_s - 5}{20\text{mA}}$ 950 @ 24V	Vs
<b>G</b>	Voltage	9 to 28V	0.5 to 4.5V	2k min	0V
<b>H</b>	3 wire Current Loop - Source	13 to 28V	4 to 20mA	300 max	0V

**Cable conductor colours:**

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



**Output Characteristic - Standard**



**Mechanical Mounting:**

Depending on options; Body can be mounted by M5 rod eye or by clamping the sensor body - body clamps are available, if not already ordered. Target by M5x0.8 female thread or M5 rod eye.

Where the free end of the cable is to be terminated in a submerged position, adequate sealing must be provided to ensure water cannot track inside the cable jacket.

**Output Characteristic:**

Target is extended 9 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.

**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 & G 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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