

## Installation Information LIPS<sup>®</sup> S114 SUBMERSIBLE STAND-ALONE LINEAR POSITION SENSOR

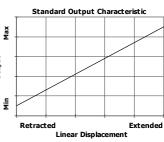
Output Option	Output Description:	Supply Voltage: V <sub>s</sub> (tolerance)	Load resistance: (include leads for 4 to 20mA O/Ps)	
Α	0.5 - 4.5V (ratiometric with supply)	+5V (4.5 - 5.5V)	≥ 5kΩ	
В	±5V	±15V nom. (±9 - 28V)	≥ 5kΩ	
с	0.5 - 9.5V	+24V nom. (13 - 28V)	≥ 5kΩ	
D	±10V	±15V nom. (±13.5 - 28V)	) ≥ 5kΩ	
E	4 - 20mA 2 wire Current Loop	+24V nom. (18 - 28V)	$\approx$ 0 - 300 $\Omega$ max. @24V ~ 1.2 to 6V across 300 $\Omega$ {R <sub>L</sub> max. = (V <sub>s</sub> - 18) / 20 <sup>-3</sup> }	
F	4 - 20mA 3 wire Sink	+24V nom. (13 - 28V)	$\approx$ 0 - 950 $\Omega$ max. @24V $\sim$ 3.8 to 19V across 950 $\Omega~\{R_Lmax.$ = (V_s - 5) / 20^3\}	
G	0.5 - 4.5V	+24V nom. (9 - 28V)	≥ 5kΩ	
н	4 - 20mA 3 wire Source	+24V nom. (13 - 28V)	$\thickapprox$ 0 - 300 $\Omega$ max. $\sim$ 1.2 to 6V across 300 $\Omega$	
'A', 'C',	'G' & 'H'	'B' & 'D'	'E'	'F'
Sensor Bl	ht O/P k O/P R <sub>Load</sub> OV	sor Grn O/P Grn O/P R <sub>Load</sub> OV -V	Sensor Sensor Scr Case	Sensor Bik Scr Case

 $V^{#2} = +5 - +28V$ 

**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. It is assumed that the sensor and target mounting points share a common earth.

Where the free end of the cable is to be terminated in a submerged position, adequate sealing must be provided to protect connections.

**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 5 and 800 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  $\pm$  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.

