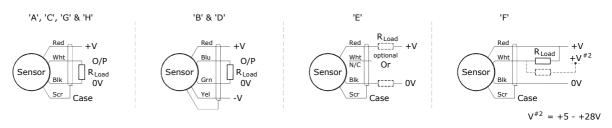


## Installation Information LIPS® S114 SUBMERSIBLE STAND-ALONE LINEAR POSITION SENSOR

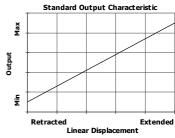
Output Option	Output Description:	<b>Supply Voltage:</b> V <sub>s</sub> (tolerance)	<b>Load resistance:</b> (include leads for 4 to 20mA O/Ps)
A	0.5 - 4.5V (ratiometric with supply)	+5V (4.5 - 5.5V)	≥ 5kΩ
В	±5V	±15V nom. (±9 - 28V)	≥ 5kΩ
С	0.5 - 9.5V	+24V nom. (13 - 28V)	≥ 5kΩ
D	±10V	±15V nom. (±13.5 - 28V)	≥ 5kΩ
E	4 - 20mA 2 wire Current Loop	+24V nom. (18 - 28V)	$\approx 0$ - $300\Omega$ max. @24V $\sim 1.2$ to 6V across $300\Omega$ $\;\{R_L$ max. = (Vs - 18) / $20^{-3}\}$
F	4 - 20mA 3 wire Sink	+24V nom. (13 - 28V)	$\approx 0$ - $950\Omega$ max. @24V $\sim 3.8$ to 19V across $950\Omega$ $\;\;\{R_L \; max. = (V_s - 5) \; / \; 20^{-3} \}$
G	0.5 - 4.5V	+24V nom. (9 - 28V)	≥ 5kΩ
н	4 - 20mA 3 wire Source	+24V nom. (13 - 28V)	≈ 0 - 300Ω max. ~ 1.2 to 6V across 300Ω



**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. Supply leads diode protected. Output must not be taken outside 0 to 12V.

E, F & H Protected against any misconnection within the rated voltage.

