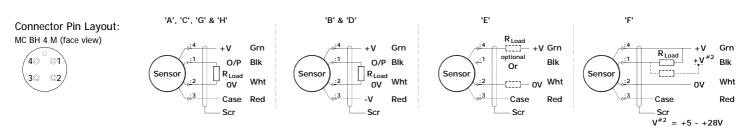


Installation Information LIPS[®] S520 350 BAR SUBMERSIBLE STAND-ALONE ROTARY POSITION SENSOR

Output Option	Output Description:	Supply Voltage: V _s (tolerance)	Load resistance: (include leads for 4 to 20mA O/Ps)
А	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)	$\approx 0 - 300 \Omega \text{ max}. @24V \sim 1.2 \text{ to } 6V \text{ across } 300 \Omega \{R_L \text{ max}. = (V_s - 18) \ / \ 20^{-3}\}$
F	4 - 20mA 3 wire Sink	+24V nom. (13 - 28V)	\thickapprox 0 - 950 Ω max. @24V ~ 3.8 to 19V across 950 Ω = (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)	\approx 0 - 300 Ω max. ~ 1.2 to 6V across 300 Ω

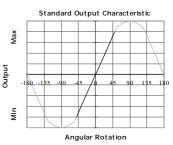


Mechanical Mounting: Flange mounted with two M5 screws through slots which allow +/- 15° angular adjustment. The sensor should be mounted with minimal axial and radial loading on the shaft for optimum life. It is recommended that the shaft is coupled to the drive using a flexible coupling. Tests indicate that life in excess of 16 million cycles can be achieved with 1kg side and end load.

N.b. cable free end must be appropriately terminated to prevent water ingress into the cable. The sensor is sealed to IP68 350 Bar.

Warning Do not tamper with any of the case screws; the oil fill will be compromised.

Output Characteristic: The sensor has full rotational freedom and two sectors, 180° apart, over which linear response can be achieved. At the mid point of the calibrated range the output signal will be half full scale deflection, the shaft flat will be opposite to the filler screw in the flange base. In the calibrated range the output increases as the shaft is rotated in an anti-clockwise direction viewed from the shaft. The calibrated output is factory set to be between 15° and 160°.



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.

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



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