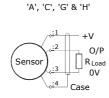


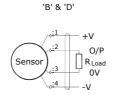
Installation Information TIPS® P603 LARGE ANGLE TILT SENSOR

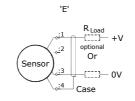
Output Option	Output Description:	Supply Voltage: V _s (tolerance)	Load resistance: (include leads for 4 to 20mA O/Ps)
A	0.5 - 4.5V (ratiometric with supply)	+5V (4.5 - 5.5V)	≥ 5kΩ
В	±5V	±15V nom. (±9 - 28V)	≥ 5kΩ
С	0.5 - 9.5V	+24V nom. (13 - 28V)	≥ 5kΩ
D	±10V	±15V nom. (±13.5 - 28V)	≥ 5kΩ
E	4 - 20mA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

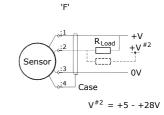
Connector Pin Layout: IEC 60947-5-2











Mechanical Mounting: Flange mounted, flange slots are 4.5mm by 30 degrees wide on a 48mm pitch. The mid point of the calibrated range is set with the flange slots in the vertical plane, mechanical mid point adjustment is achieved by rotating the sensor in the flange slots.

Note: the sensor should be mounted on a vertical face.

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, and the mounting flanges will be vertical. In the calibrated range the output increases as the sensor is rotated in an anti-clockwise direction viewed from the flange face- see drawing above. The calibrated output is factory set to be between 15 and 160°.



Standard Output Characteristic

XX

-180 -185 -90 -45 -90 -135 -180

Angular Rotation

Warning - The M12 IEC 60947 connector may 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 damage 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 \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.

