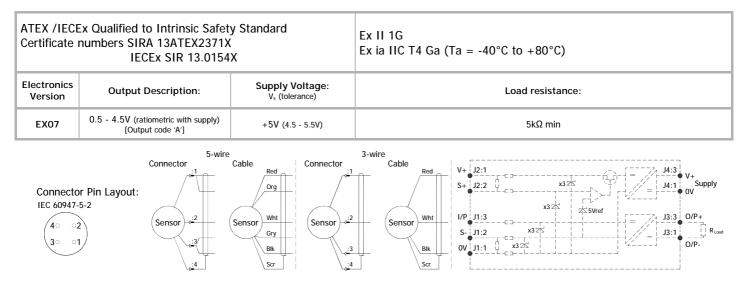
## POSITEK Installation Information LIPS<sup>®</sup> X138 MID STROKE SLIM-LINE LINEAR POSITION SENSOR INTRINSICALLY SAFE FOR HAZARDOUS GAS/VAPOUR ATMOSPHERES



**Putting Into Service:** The sensor must be used with a galvanic isolation barrier designed to supply the sensor with a nominal 5V and to transmit the sensor output to a safe area. The barrier parameters must not exceed:-

- $Ci = 1.16\mu F$   $Li = 50\mu H$  ('J' option)

The sensor is certified to be used with up to 1000m of cable, cable characteristics must not exceed:-

Capacitance: ≤ 200 pF/m for max. total of: 200 nF

Inductance:  $\leq$  810 nH/m for max. total of: 810 µH

Approval only applies to specified ambient temperature range and atmospheric conditions in the range: 0.80 to 1.10 Bar, oxygen ≤ 21%.

The performance of the sensor may be affected by voltage drops associated with long cable lengths; For cable lengths exceeding 10 metres a five wire connection is recommended to eliminate errors introduced by cable resistance and associated temperature coefficients.

N.b. sensors supplied with cable, the free end must be appropriately terminated.

Use: The sensor is designed to measure linear displacement and provide an analogue output signal.

Assembly and Dismantling: The unit is not to be serviced or dismantled and re-assembled by the user.

Maintenance: No maintenance is required. Any cleaning must be done with a damp cloth.

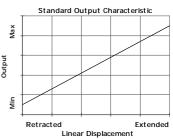
Mechanical Mounting: Flange mounted or by clamping the sensor body - body clamps are available, if not already ordered. The flange slots are 3.2 mm by 30 degrees wide on a 28 mm pitch.

Output Characteristic: Plunger extended, at start of normal travel, from mounting face by: Standard body : 36.5 mm<sup>\*</sup> Flanged body : 34 mm<sup>\*</sup>

\*Note: where dome end option is fitted add 5 mm.

The output increases as the plunger extends from the sensor body, the calibrated stroke is between 51 mm and 100 mm.

Herbert



**Incorrect Connection Protection levels: Not protected** – the sensor is **not** protected against either reverse polarity or overvoltage. The risk of damage should be minimal where the supply current is limited to less than 50mA.



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