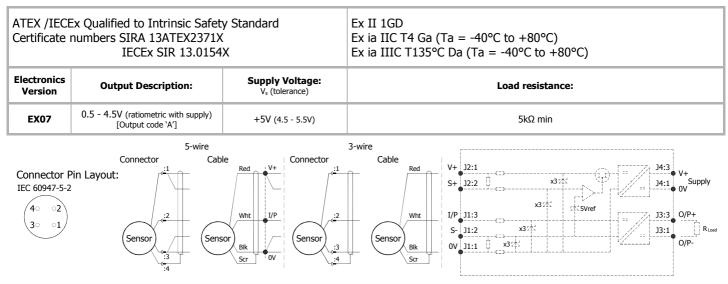


Installation Information LIPS[®] E138 MID STROKE SLIM-LINE LINEAR POSITION SENSOR INTRINSICALLY SAFE FOR HAZARDOUS DUST ATMOSPHERES



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:-

i	=	1	1.4V
i	_	1	36

н

Pi = 0.51W

- Ci = 1.36µF* Li = 860µH* ('Lxx' option) *Figures for 1km cable where: Ci = 200pF/m & Li = 810nH/m
- **Ci = 1.16\muF Li = 50\muH** ('J' option)

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

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

Ii = 0.20A

Inductance: \leq 810 nH/m for max. total of: 810 μ H

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

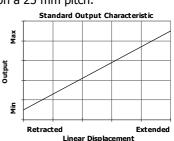
Use: The sensor is designed to measure linear displacement and provide an analogue output signal.

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: Via the two slots in the flange, the slots are 3.2 mm by 30 degrees wide on a 25 mm pitch.

Output Characteristic: Plunger extended 34 mm from mounting face at start of normal travel. 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.



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.



