

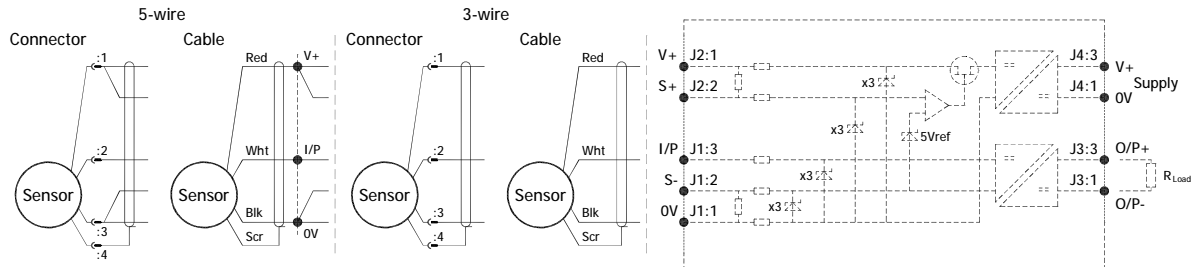
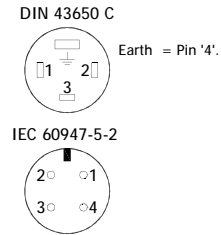
Generic Installation Information

H SERIES SENSORS

INTRINSICALLY SAFE FOR HAZARDOUS GAS/VAPOUR & DUST ATMOSPHERES

CSA Qualified Intrinsically Safe Device Certificate number 13.2588225		Class I, Zone 0 Ex ia IIC T4 (Ta = -40°C to +80°C) AEx ia IIC T4 / Ex ia IIC T4 (Ta = -40°C to +80°C) AEx ia D IIIC T93°C (Ta = -40°C to +80°C)	
Electronics Option	Output Description:	Supply Voltage: V _s (tolerance)	Load resistance:
A	0.5 - 4.5V (ratiometric with supply)	+5V (4.5 - 5.5V)	5kΩ min

Connector Pin Layout:



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:-

- U_i = 11.4V I_i = 0.20A P_i = 0.51W
- C_i = 1.36µF* L_i = 710µH* (with maximum length integral cable)
- C_i = 1.16µF L_i = 50µH (without integral cable)

*Figures for 1km cable where: C_i = 200pF/m & L_i = 660nH/m

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: ≤ 660 nH/m for max. total of: 660 µH

Use:

The sensor is designed to measure Linear or rotary 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.

WARNING: Substitution of components may impair intrinsic safety
 AVERTISSEMENT: La substitution de composants peut altérer la sécurité intrinsèque

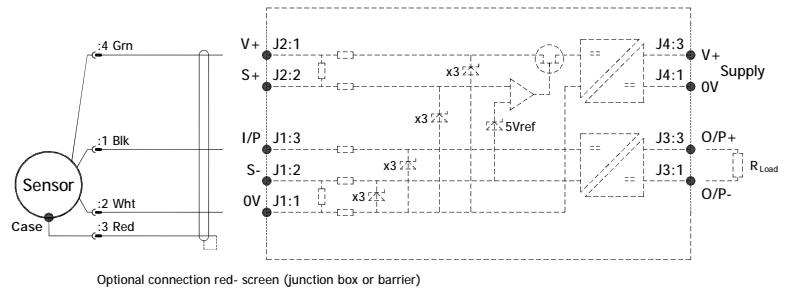
Maintenance:

Accumulated dust layer must not exceed a depth of 50mm.

Installation Information

LIPS[®] H125 350 BAR SUBMERSIBLE STAND-ALONE LINEAR POSITION SENSOR INTRINSICALLY SAFE FOR HAZARDOUS DUST ATMOSPHERES

Connector Pin Layout:
 MC BH 4 M (face view)



NOTE! Connection details above supersede those shown on the Generic Installation Information sheet.

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

The H125 is supplied with a wet-mate MC BH-4-M connector.

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.

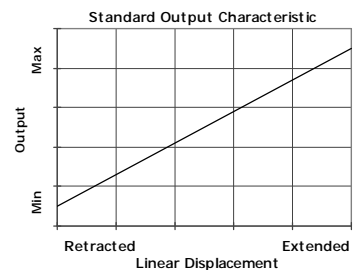
Cable; 50cm of 20AWG 4 core screened cable with moulded MC IL-4-F connector. N.b. Cable free end must be appropriately terminated, including preventing water ingress into the cable. The sensor is sealed to IP68 350 Bar.

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: Depending on options; Body can be mounted by M8 rod eye or by clamping the sensor body - body clamps are available, if not already ordered. Target by M8x1.25 male thread or M8 rod eye. It is assumed that the sensor and target mounting points share a common earth.

Output Characteristic: Target is extended 7 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 mm and 800 mm.



Incorrect Connection Protection levels:- 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.