

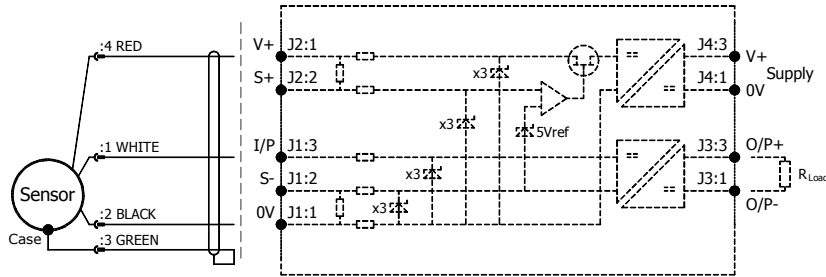
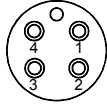
Installation Information

LIPS[®] X125 350 BAR SUBMERSIBLE STAND-ALONE LINEAR POSITION SENSOR

ATEX /IECEx Qualified to Intrinsic Safety Standard Certificate numbers SIRA 13ATEX2371X IECEx SIR 13.0154X		Ex II 1G Ex ia IIC T4 Ga (Ta = -40°C to +80°C)	
Electronics Version	Output Description:	Supply Voltage: V _s (tolerance)	Load resistance:
EX07	0.5 - 4.5V (ratiometric with supply) [Output code 'A']	+5V (4.5 - 5.5V)	5kΩ min

Connector Pin Layout:

MICRO MINI WETMATE
MCBH-4-MP (FACE VIEW)



OPTIONAL CONNECTION GREEN - SCREEN (JUNCTION BOX OR BARRIER)

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 = 860μH*** ('Ixx' or 'Lxx' options) *Figures for 1km cable where: C_i = 200pF/m & L_i = 810nH/m
- C_i = 1.16μF** **L_i = 50μH** (without cable)

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: ≤ 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.

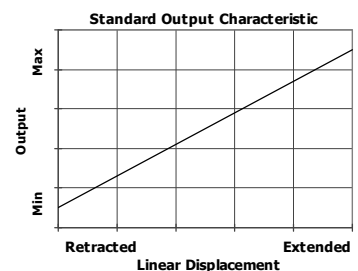
N.b. sensors supplied with cable, the free end must be appropriately terminated.

Use: The sensor is designed to measure 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.

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 female thread or M8 rod eye. It is assumed that the sensor and target mounting points share a common earth.



Where the free end of the cable is to be terminated in a submerged position, adequate sealing must be provided to protect connections. The sensor is sealed to 350 Bar.

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.