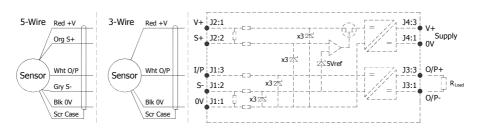


For certificate number and safety parameters information for product marked EX04, see next page.

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



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:-

Ui = 11.4V

POSITEK

Pi = 0.51W

Li = 860µH* ('Ixx', 'IQxx', 'Lxx' or 'LQxx' options) *Figures for 1km cable $Ci = 1.36 \mu F^*$ $Ci = 1.16 \mu F$

Li = 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

Ii = 0.20A

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 \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. the free end of the cable must be appropriately terminated. Where the free end is to be terminated in a submerged position adequate sealing must be provided to protect connections.

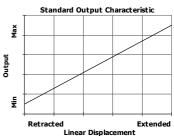
Use: The sensor is designed to measure linear displacement and provide an analogue output signal.

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: Depending on options; Body can be mounted by M5 rod eye or by clamping the sensor body - body clamps are available, if not already ordered. Target by M5x0.8 female thread or M5 rod eye. It is assumed that the sensor and target mounting points share a common earth.

Output Characteristic: Target is extended 9 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: 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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Installation Information LIPS[®] X114 SUBMERSIBLE STAND-ALONE LINEAR POSITION SENSOR INTRINSICALLY SAFE FOR HAZARDOUS GAS/VAPOUR ATMOSPHERES

For certificate number and safety parameters information for product marked EX07, see previous page.

ATEX Qualified to Intrinsic Safety Standard Certificate numbers SIRA 00ATEX2076X			Ex II 1G EEx ia IIC T4 (Ta = -40°C to +80°C)
Electronics Version	Output Description:	Supply Voltage: V _s (tolerance)	Load resistance:
EX04	0.5 - 4.5V (ratiometric with supply) [Output code `A']	+5V (4.5 - 5.5V)	5kΩ min

The barrier parameters must not exceed:-

Ui = 11.4V	Ii = 0.20A	Pi = 0.51W	
Ci = 1.36µF*	Li = 710µH*	('Ixx' or 'Lxx' options)	*Figures for 1km cable
Ci = 1.16µF	Li = 50µH	(without cable)	

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 Inductance: \leq 660 nH/m for max. total of: 660 μ H

With the exception of the certificate number and safety parameters above, all other notes regarding Putting Into Service, Use, Assembly and Dismantling etc. on previous page apply to sensors marked EX04 or EX07.





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X114-19j

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