

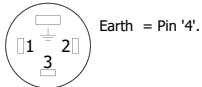


# Generic Installation Information G SERIES SENSORS

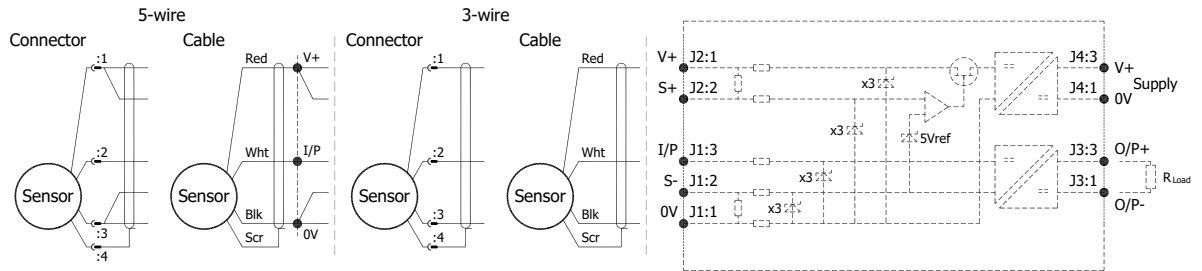
INTRINSICALLY SAFE FOR HAZARDOUS GAS/VAPOUR ATMOSPHERES

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)	
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:  
DIN 43650 C



IEC 60947-5-2



## 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:-

$$\begin{array}{lll}
 U_i = 11.4V & I_i = 0.20A & P_i = 0.51W \\
 C_i = 1.36\mu F^* & L_i = 710\mu H^* & \text{(with maximum length integral cable)} \\
 C_i = 1.16\mu F & L_i = 50\mu H & \text{(without integral cable)}
 \end{array}$$

\*Figures for 1km cable where:  $C_i = 200\text{pF/m}$  &  $L_i = 660\text{nH/m}$

The sensor is certified to be used with up to **1000m** of cable, cable characteristics must not exceed:-  
 Capacitance:  $\leq 200 \text{ pF/m}$  for max. total of:  $200 \text{ nF}$   
 Inductance:  $\leq 660 \text{ nH/m}$  for max. total of:  $660 \mu\text{H}$

## 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:

No maintenance is required.



For further information please contact:  
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 Tel: +44(0)1242 820027 fax: +44(0)1242 820615  
 Positek, Andoversford Industrial Estate, Cheltenham GL54 4LB. U.K.



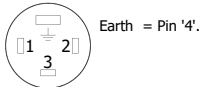


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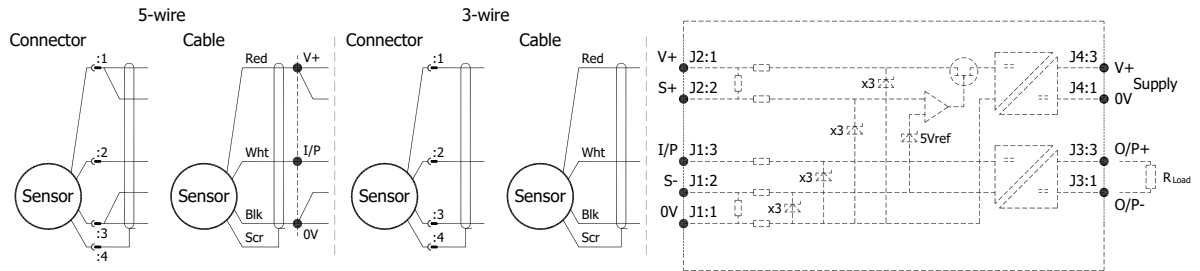
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