

## DUAL AXIS INCLINOMETER $\pm 10^{\circ}.. \pm 5^{\circ}$

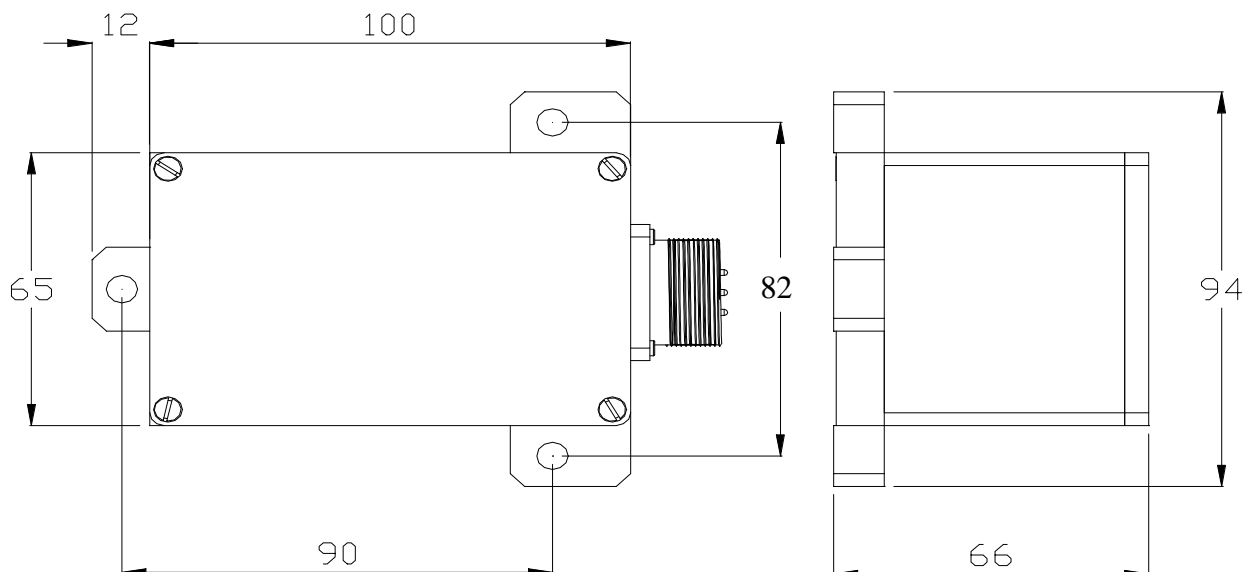
ELS-XX-I ( Output 4- 20 mA )

### PROFILE

Model ELS-XX-I dual axis inclinometer combine an electrolytic level sensor with a CMOS hybrid signal conditioning circuit . The level sensor is partially filled with a conductive fluid and platinum contacts are hermetically sealed in a glass envelope . When the sensor is at its zero position the electrical impedance of the fluid from the central electrode to each left and right electrodes is equal . When the sensor tilt , the movement of the fluid determine the change of the impedance in proportion to the angle of tilt . Thecnical performances , make them ideal for application in constrution machinery , civil engineering and geotechnical applications .All models are temperature compensated to the full industrial range

### Main Characteristics

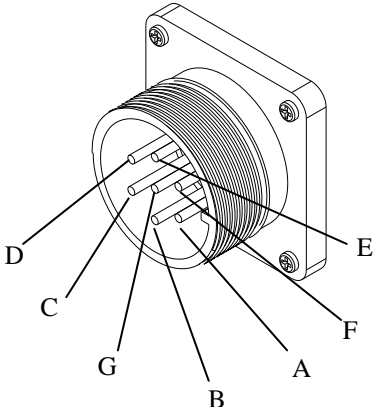
- Measuring range  $\pm 10^{\circ} \pm 5^{\circ}$
- Voltage supply 20....30 VDC
- Temperature compensation -20 + 70 °C
- High schock resistance
- IP67 protection
- Aluminium Housing
- Connector MIL5015
- Encapsulated electronic
- 4.....20 mA
- Drilling and paving machine



**TECHNICAL SPECIFICATIONS**

ELS-XX-I (Current output )		
Measuring range	°	+/- 5 to +/- 10
Voltage Supply	Volt	20 to 30 volt
Y-X out zero	Volt	12 mA +/- 0,050
Sensitivity	mA	2 X 0,8 mA /° ( 10° ) 2 X 1,6 mA /° ( 5° )
Linearity	% FS	< 1 max %
Resolution	°	0,001
Insulation resistance	Mohm	> 100 Mohm @500Vdc
Temperature compensated range	° C	0°C to 60°C -20 °C .... + 70 ° C
Stocking Temperature	° C	-40 ....+ 80 °C
Frequency response	s	0.3 ( factory calibrated )
Temperature zero drift T -20 to 70	°	< 0.2
Temperature sensitivity drift T -20 to 70	°	< 0.4
Cross axis error	% FS	<1 % at max tilt
Shock resistance	According MIL- STD 202 E 213 B	15 g ( 15 ms )
Vibration resistance	According MIL STD 202E 204 C	20 g ( 10 to 2000 Hertz)
Dimensions	mm	Vedi disegno
Weight	Kg	1,2
Connectors		AMPHENOL MS310216S1P

**Connections**

<b>A</b>	+ SUPPLY VOLTAGE	
<b>B</b>	GROUND Iy	
<b>C</b>	GROUND	
<b>D</b>	GROUND Ix	
<b>E</b>	OUTPUT X AXIS	
<b>F</b>	OUTPUT Y AXIS	
<b>G</b>	SHIELD	