

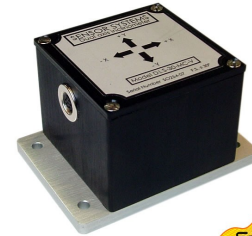
INCLINOMETERS

DLS-XX

DLS-XX-MC

Description

Model DLS-XX-V dual axis inclinometer combines an electrolytic level sensor with a CMOS hybrid signal conditioning circuit. The level sensor contains 3 or 5 platinum contacts hermetically sealed in a glass envelope, partially filled with a conductive fluid. 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 tilts, the movement of the fluid determines the change of the impedance in proportion to the angle of tilt. Technical performances make them ideal for application in construction machinery, civil engineering and geotechnical applications.



- Electrolytic sensor;
- Measuring range: $\pm 5^\circ$ and $\pm 10^\circ$;
- Input voltage: 7 to 30 VDC;
- Output: 0.5-4.5V (4-20 mA optional);
- Aluminium housing IP65 (IP67 optional);
- Dimensions: (body) 60mm x 85 mm height 46mm;
- Weight: 380 g.

Features

- Low power;
- High resistance to mechanical shocks and vibrations;
- Electronic encapsulated with resin;
- No mechanical moving parts;
- Binder connector.

Technical specifications			
Measuring range	°	± 5	± 10
Input voltage	Volt	7 to 30	
Output	-	0.5-4.5 V 4-20 mA	
X out zero	Volt	2.5V \pm 50mV 12 mA \pm 50 μ A	
Linearity	% FS	< 1	
Resolution	°	0.005	0.01
Insulation Resistance	MOhm	> 100 @500Vdc	
Temperature compensated Range	° C	0 +60	
Stocking Temperature	° C	-40 +80	
Frequency Response	s	0.3 (factory calibrated)	
Zero temperature drift T 0-60°	°	< 0.1	
Temperature Sensitivity drift T 0-60°	°	< 0.1	
Shock resistance	MIL- STD 202 E 213 B	1000 g	
Vibration resistance	MIL STD 202E 204 D	20 g (10 to 2000 Hertz)	

