Digital 2 axes inclination sensor

Characteristics

4 - ANGLE - OVERTURN

D2NE-HD

	Measuring range:	±45° (each axis)
	Output:	010 V or (0)420 mA (each axis)
	Voltage supply:	12 VDC / 24 VDC
	Adjustment:	via 5 programming keys
	Resolution:	<0,1°
	Indication:	LC-display
	Option:	limiting value switch (2 each axis), interface
	Wear of sensor:	operates absolutely without
	Sensor:	integrated chip
	Degree of protection:	IP65
	Enclosure:	impact-resistant plastics, diecast aluminium

Technical data

Input							
Measuring range:	X-axis: maximum ±45° Y-axis: maximum ±45°						
Adjustment:	keys on main PCB and/or optional interface and/or display unit						
Output							
Analogue:	each axis 1 output 2 x 020 mA (load 500 Ω) or 2 x 420 mA (load 500 Ω) Note: Kind of signal is factory-set						
Limiting value switch (optionally)							
Relays:	4 limit value switches (each axis 2 pcs)each with 1 changeover contact, fail safe functionResistive load:switching current DC: 30 V 2 A / 110 V 0,3 AResistive load:switching current AC: 125 VAInductive load:switching current AC: 25 VAProtection:RT III						
Interface							
Choice:	RS232 / RS485 / CAN-Bus / Profibus						
Indication							
Display: Function: Indication:	microprocessor based multifuntion indicator 4 keys for programming current values / minimum/maximum values / switch points / diagnostic values						

Applications

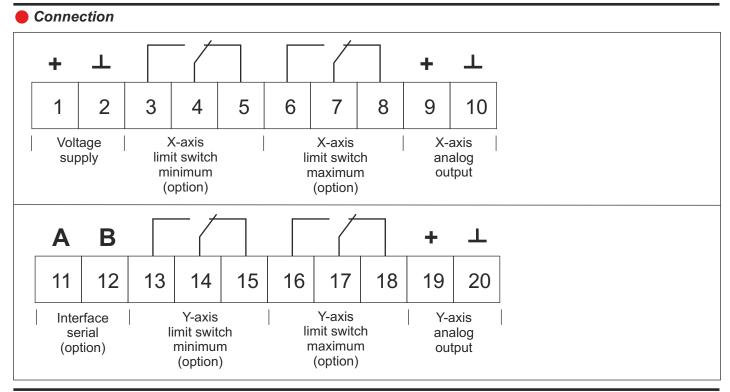
The slope sensor is mounted on the object which has to be measured. This is given eg on outtriggers of cranes, ships, ramps of ferries and all installations, where by using the sensor the risc of overturn should be recognized. Due to the digital signal processing the adjustment of the slope sensor is done with some key depression strokes in a high accuracy. Optional components like interface and limiting value swtich makes possible a wide range of use.



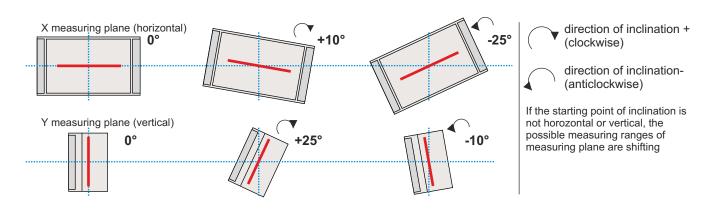
Digital 2 axes inclination sensor

Technical data (continued)

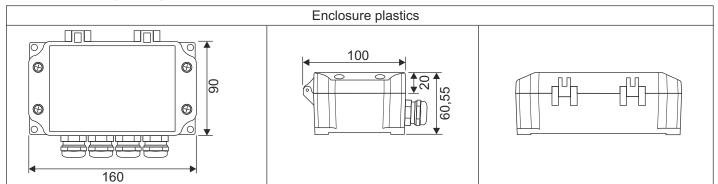
	ieu)							
Vibration protection (option	ally)							
Electronics:	completely potted							
Accuracy								
Resolution: Linearity: Temperature coeff.: Measuring rate:	<0,1° ±0,2% of end scale ±0,05% of end scal 10 measurements p	e value						
Power supply								
Voltage: Power consumption: Residual ripple:		24 VDC, ±20% / 12 VDC, ±20% with options approx. 5 W 200 mV						
Ambient conditions								
Operating temperature: Storing temperature:	-40+75°C -40+85°C							
Mechanics								
Enclosure aluminium:	Type: Dimensions: Material: Mounting: Colour: Weight: Cable entry: Saltwater-proof:	aluCase AC 092 with clip-on design covers 160 x 90 x 60 mm die-cast aluminium covered screw channels RAL 9006 (aluminium white) approx.1,1 kg (with options) 4 screwed cable glands M20x1,5 with special plating						
Enclosure plastics:	Type: Dimensions: Material: Mounting: Colour: Weight: Cable entry: Protective insulation	U-CASE 2 160 x 90 (100) x 60 mm ASA 757G Luran S 4 mounting holes black approx. 0,7 kg (with options) 4 screwed cable glands M20x1,5 n: according VDE100						
Degree of protection: Connection:	IP 65	ocket connector, lockable, up to 2,5 mm² (CPFT2/R-10)						

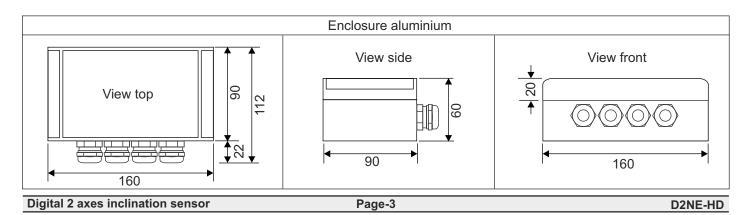


Angle of inclination



Dimensions (in mm)





🛑 Order code		D	W	X	Х	X				,	X	(X	X
		D	VV		$\overline{}$								
Analog output:	010 V 420 mA 020 mA without 0,54,5 V			0 1 2 3 4									
Supply:	12 VDC 24 VDC				0 1								
Interface:	without RS232 RS485 CANopen Profibus					0 1 2 3 4							
Limit value contacts:	without with 2 relays (each axis)						C 1)					
Display:	with							1					
Vibration protection:	without potting with potting								0				
Configuration:	factory-set ¹⁾ customized (to specify) ²⁾) 1	
Enclosure:	aluminium plastics plastics with EMC coating											X 2 3	
Other:	special model												0

1) Analog output: as selected above / limit switch: minimum 0% (-45°), maximum 100% (+45°) / measuring range: each axis +/-45°

2) Analog output, limit switch, measuring range: all values within each range