

## Technical data

| Input |  |
| :---: | :---: |
| Measuring range: | X-axis: maximum $\pm 45^{\circ}$ <br> $Y$-axis: maximum $\pm 45^{\circ}$ |
| Adjustment: | 5-keys on main PCB and/or optional interface and/or display unit |
| Output |  |
| Analogue: | each axis 1 output <br> $2 \times 0 \ldots 10 \mathrm{~V}$ or $2 \times 0 \ldots 20 \mathrm{~mA}(\operatorname{load} 500 \Omega)$ or $2 \times 4 \ldots 20 \mathrm{~mA}(\operatorname{load} 500 \Omega)$ <br> Note: Kind of signal is factory-set |
| Limiting value switch (optionally) |  |
| Relays: | 4 limit value switches (each axis 2 pcs) <br> each with 1 changeover contact, fail safe function <br> Resistive load: switching current DC: $30 \mathrm{~V} 2 \mathrm{~A} / 110 \mathrm{~V} 0,3 \mathrm{~A}$ <br> Resistive load: switching current AC: 125 VA <br> Inductive load: switching current AC: 25 VA <br> Protection: RT III |
| Interface |  |
| Choice: | RS232 / RS485 / CAN-Bus / Profibus |
| Indication |  |
| Display: Function: Indication: | microprocessor based multifuntion indicator <br> 4 keys for programming <br> 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.


Technical data (continued)

## Vibration protection (optionally)

| Electronics: | completely potted |
| :---: | :---: |
| Accuracy |  |
| Resolution: <br> Linearity: <br> Temperature coeff.: Measuring rate: | $\begin{aligned} & <0,1^{\circ} \\ & \pm 0,2 \% \text { of end scale value } \\ & \pm 0,05 \% \text { of end scale value } \\ & 10 \text { measurements per second } \end{aligned}$ |
| Power supply |  |
| Voltage: <br> Power consumption: <br> Residual ripple: | 24 VDC, $\pm 20 \% / 12$ VDC, $\pm 20 \%$ with options approx. 5 W 200 mV |
| Ambient conditions |  |
| Operating temperature: Storing temperature: | $\begin{aligned} & -40 \ldots+75^{\circ} \mathrm{C} \\ & -40 \ldots+85^{\circ} \mathrm{C} \end{aligned}$ |
| Mechanics |  |
| Enclosure aluminium: | Type: aluCase AC 092 with clip-on design covers <br> Dimensions: $160 \times 90 \times 60 \mathrm{~mm}$ <br> Material: die-cast aluminium <br> Mounting: covered screw channels <br> Colour: RAL 9006 (aluminium white) <br> Weight: approx. $1,1 \mathrm{~kg}$ (with options) <br> Cable entry: 4 screwed cable glands M20×1,5 <br> Saltwater-proof: with special plating |
| Enclosure plastics: | Type: U-CASE 2 <br> Dimensions: $160 \times 90(100) \times 60 \mathrm{~mm}$ <br> Material: ASA 757G Luran S <br> Mounting: 4 mounting holes <br> Colour: black <br> Weight: approx. $0,7 \mathrm{~kg}$ (with options) <br> Cable entry: 4 screwed cable glands M20×1,5 <br> Protective insulation:  |
| Degree of protection: Connection: | IP 65 multipole pin and socket connector, lockable, up to $2,5 \mathrm{~mm}^{2}$ (CPFT2/R-10) |

Connection


Angle of inclination


Dimensions (in mm)



1) Analog output: as selected above / limit switch: minimum $0 \%\left(-45^{\circ}\right)$, maximum $100 \%\left(+45^{\circ}\right) /$ measuring range: each axis $+/-45^{\circ}$
2) Analog output, limit switch, measuring range: all values within each range
