# THRESHOLD SILICIUM INCLINOMETER : SX 42810 SERIES

## SPECIFICATIONS

- Single or dual axis.
- 2 independant thresholds per axis.
- Range available : ± 90°.
- Accuracy : 0,1° (measurement range < 20°).
- Output via REED relay.

## DESCRIPTION

The SX 42810 series is based on the SX 46000 inclinometric cell associated with an electronic circuit with three functions : supply of the sensors, signal conditioning and thresholds detection.

The threshold limits are determined by a high stability reference voltage (one high, one low per axis), adjustable by multiturn potentiometers on the top panel.

Each axis has a common REED relay with an unipolar inverter contact.

The status of the relays is indicated by external LED's. The unit requires a non-regulated supply voltage between 9 to 28 V.

The analogue outputs are available from the connector.

## APPLICATIONS

- All or nothing angle detection.
- Security function eg alarm or power cutoff.
- Horizontal stabilisation.

## SELECTION GUIDE

| Axis | |
|---|---|
| Single (X) | 42811 |
| Dual (XY) | 42813 |

Threshold values are pre-adjusted in our factory.

Please state required level when ordering.



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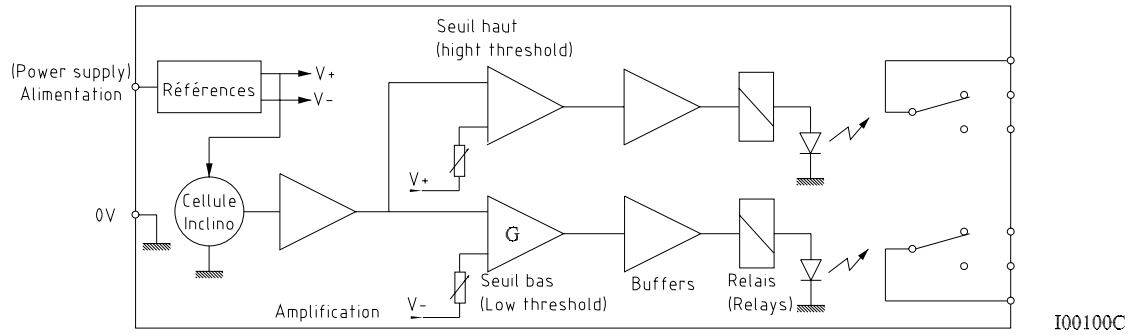
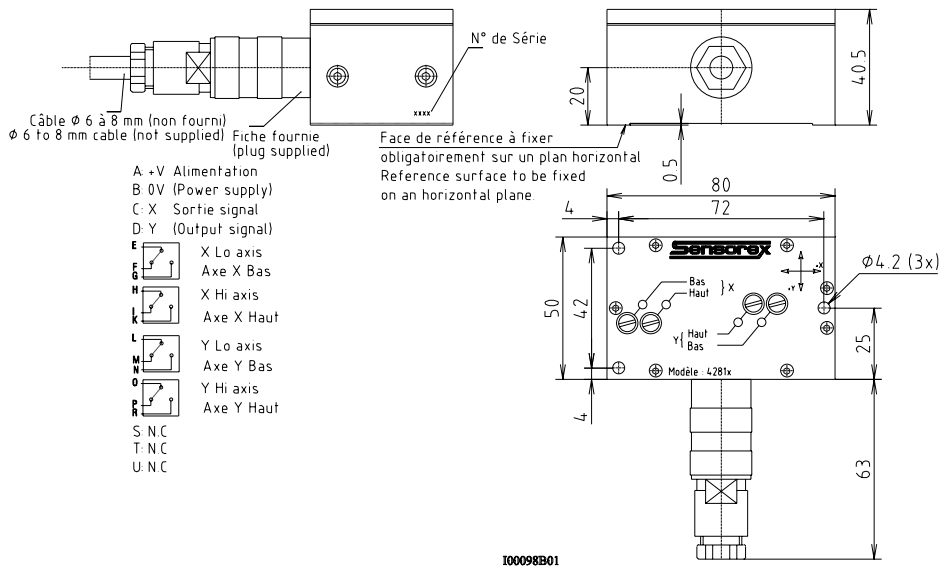
## GENERAL SPECIFICATIONS (AT 25°C)

| | |
|---|---|
| Supply voltage | 9 to 28 V |
| Consumption | < 50 mA |
| Range | ± 90° |
| Threshold accuracy | ± 0,1° from 0 to 20°<br>± 0,3° from 20° to 90° |
| Output<br>Max. power<br>Max. voltage<br>Max. current | REED relay (unipolar converter)<br>60 W<br>30 VDC / 2 A or 220 VDC / 0,27 A<br>2 A / 30 V |
| Hysteresis | 0,4° |
| Response time | 0,5 sec. |
| Operating temperature | - 40 °C to + 85 °C |
| Protection | IP65 |
| Thermal drift | 0,01 °/°C |
| Weight | 280 g |
| Minimum adjustable threshold | ± 1°, then 0,1° steps, beyond ± 1° |

## SYNOPTIC




## INTERFACE DRAWING







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