

|                     |                         |                     |                                     |
|---------------------|-------------------------|---------------------|-------------------------------------|
| Code<br><b>ST02</b> | Project<br><b>A30-B</b> | Release<br><b>A</b> | Title<br><b>TECHNICAL DATASHEET</b> |
|---------------------|-------------------------|---------------------|-------------------------------------|

## DIGITAL READOUT WITH MAGNETIC SENSOR VISION 110L

### GENERAL FEATURES

- One-axis DIGITAL READOUT with 6 ½ digit LCD and negative sign.
- Body sensor of standard dimensions and front of bigger size, for mounting on panel with drilling template 92x66 mm (lxh), or adjustable for standard drilling template (92x44 mm).
- FLEXIBLE CABLE max. length 4 meters.
- Power supply either via battery or mains supply.
- MAGNETIC SENSOR of small overall dimensions.
- Fixing by M3 or M4 screws.
- Wide alignment tolerances.
- To be used with MAGNETIC BAND **MP200** or **MP100**.



### MECHANICAL AND ELECTRICAL FEATURES

|                         |  |
|-------------------------|--|
| Display                 | LCD 6 ½ digits h = 13 mm and negative sign   |
| Programmable resolution | 1.0 - 0.1 - 0.05 - 0.01 mm<br>0.01 - 0.001 - 1/16 - 1/32 - 1/64 inch<br>1° - 0.1° - 0.01° - 0.001° angular |
| Repeatability           | ± 1/2 digit  |
| Power supply            | 2 bat.LR6 AA or external (1.5 ÷ 5 V)   |
| Operating temperature   | 0 ÷ 50°C   |
| Storing temperature     | -20° ÷ 70°C  |
| Humidity                | 95% (not condensed)  |

### READOUT

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Weight                              | 125 g                              |
| Vibration resistance (EN 60068-2-6) | 25 m/s <sup>2</sup> [55 ÷ 2000 Hz] |
| Protection class (EN 60529)         | IP 43                              |

### SENSOR

|  | mod. VI110L 1                       | mod. VI110L 2 |
|--|-------------------------------------|---------------|
| Max speed                                  | 2 m/s                               | 4 m/s         |
| Sensor - magnetic band gap                 | 0.1 ÷ 0.4 mm                        | 0.3 ÷ 2.0 mm  |
| Accuracy                                   | ± 15 µm                             | ± 20 µm       |
| Magnetic band to be used with – pole pitch | MP100 (1+1mm)                       | MP200 (2+2mm) |
| Vibration resistance (EN 60068-2-6)        | 300 m/s <sup>2</sup> [55 ÷ 2000 Hz] |               |
| Shock resistance (EN 60068-2-27)           | 1000 m/s <sup>2</sup> (11 ms)       |               |
| Protection class (EN 60529)                | IP 67                               |               |

### CABLE - 6 cores ø3.4 mm

|                        |   |
|------------------------|---|
| Minimum bending radius | 25 mm   |
| Length                 | 4 / 3.5 / 3 / 2.5 / 2 / 1.5 / 1 / 0.5 / 0.2 m |

### ORDERING CODE

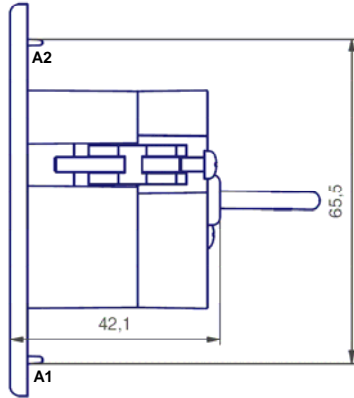
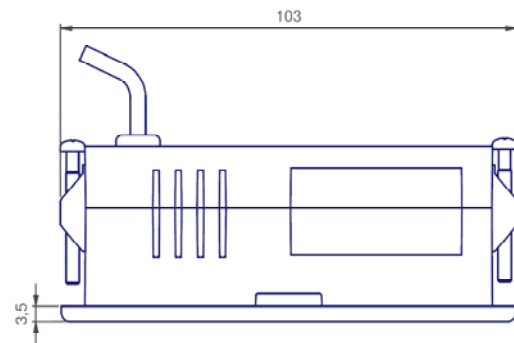
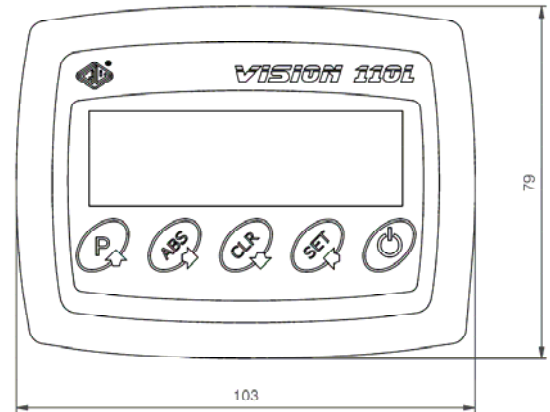
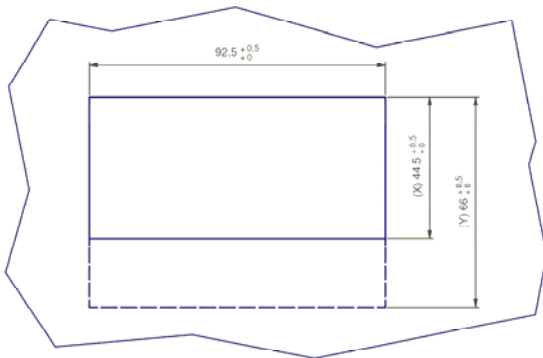
| MODEL         | POLE PITCH | POWER SUPPLY | CABLE      |
|---------------|------------|--------------|------------|
| <b>VI110L</b> | <b>2</b>   | <b>B</b>     | <b>M02</b> |

2 = 2+2mm  
1 = 1+1mm

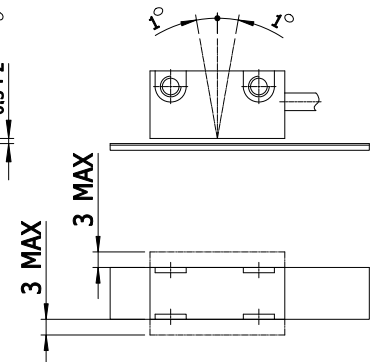
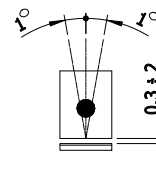
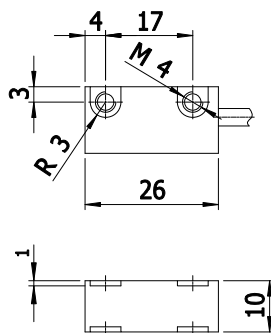
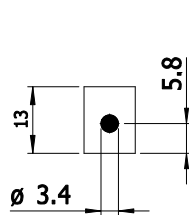
B = batteries  
E = external (1.5+5V)

M02 = 2 meters  
M01 = 1 meter  
M0.5 = 0.5 meter

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|-------------|--------------|----------|----------------------------|
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**READOUT DIMENSIONS**

**DRILLING TEMPLATE**


(X) = Standard drilling template 92x44 mm - FLAPS (A1, A2) REMOVED.  
 (Y) = Drilling template 92x66 mm.

**SENSOR DIMENSIONS**

**WARNING!!**
**WHAT TO AVOID**

1. All mechanical reworks (Cutting, drilling, face milling a.s.o.).
2. All mishandling.
3. Impacts and external stress.
4. Exposure to external magnetic fields.

