

Code <b>ST02</b>	Project <b>A30-B</b>	Release <b>B</b>	<b>TECHNICAL DATASHEET</b>
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## DIGITAL READOUT WITH MAGNETIC SENSOR VISION 110L

### GENERAL FEATURES

- One-axis digital readout, with 6 ½ digit LCD display and negative sign.
- Fixing of magnetic sensor by existing threaded holes M4, or by M3 through screws.
- Power supply either via battery or external.
- Flexible cable max. length 4 m.
- Wide alignment tolerances.
- Several user-friendly functions available.
- Metal sensor body of small overall dimensions.
- Digital readout body of standard dimensions and front of bigger size, for mounting on panel with drilling template 92x66 mm, or adjustable for standard drilling template (92x44 mm).
- To be used with magnetic band MP200 or MP100.



### MECHANICAL AND ELECTRICAL CHARACTERISTICS

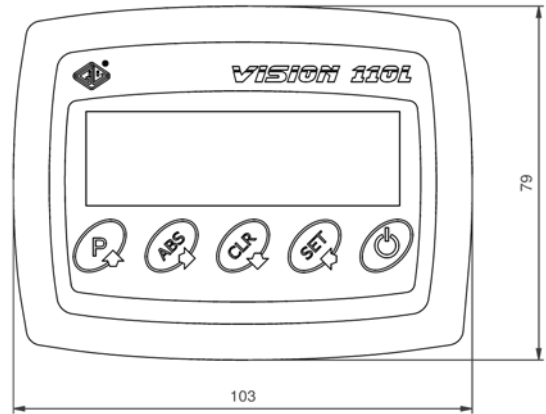
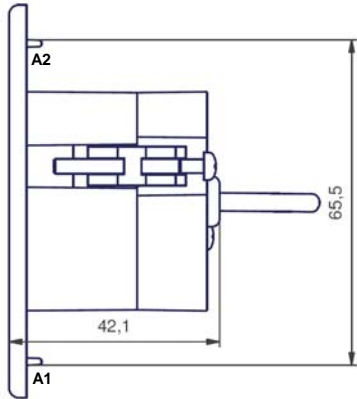
DIGITAL READOUT	
Model	<b>VISION VI110L</b> 1 display LCD - 1 input
Display	LCD 6 ½ digit h = 13 mm
Input signals	from magnetic sensor
Max. counting speed	4 m/sec
Power supply	3 V (2 AA batteries) - average current consumption 1mA external 1.5 ÷ 5 V
Memory	permanent for configuration and user settings (last data operating memory)
Linear resolution	1 - 0.1 - 0.05 - 0.01 mm programmable
	0.01 - 0.001 - 1/16 - 1/32 - 1/64 inch programmable
Angular resolution	1 - 0.1 - 0.01 - 0.001° (0/1/2/3 decimals) programmable
Repeatability	± ½ digit
Protection class (EN 60529)	IP 40
Vibration resistance (EN 60068-2-6)	25 m/s <sup>2</sup> [55 ÷ 2,000 Hz]
Relative humidity	95% (not condensed)
Operating temperature	0 °C ÷ 50 °C
Storage temperature	-20 °C ÷ 70 °C
Weight	125 g

SENSOR	VI110 L 1	VI110 L 2
Max. traversing speed	2 m/s	4 m/s
Sensor/magnetic band gap	0.1 ÷ 0.4 mm	0.3 ÷ 2.0 mm
To be used with magnetic band	MP100	MP200
Pole pitch	1+1 mm	2+2 mm
Accuracy	± 15 µm	± 20 µm
Protection class (EN 60529)	IP 67	
Vibration resistance (EN 60068-2-6)	300 m/s <sup>2</sup> [55 ÷ 2,000 Hz]	
Shock resistance (EN 60068-2-27)	1,000 m/s <sup>2</sup> (11 ms)	

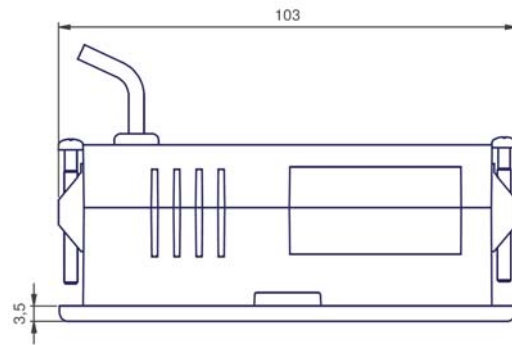
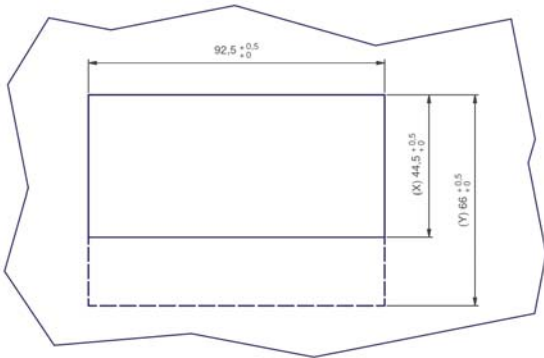
CABLE	
Section	6 wires Ø 3.4 mm
Minimum bending radius	50 mm
Length	0.2 - 0.5 - 1 - 1.5 - 2 - 2.5 - 3 - 3.5 - 4 m

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### DIGITAL READOUT DIMENSIONS

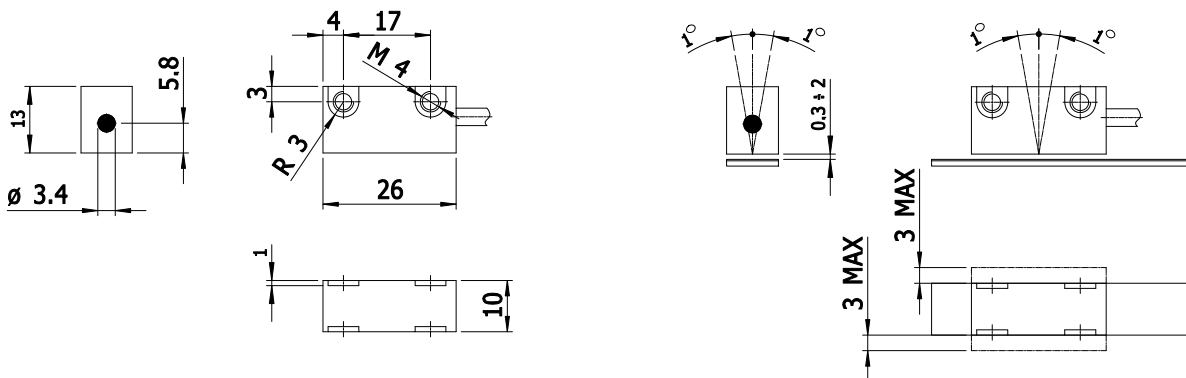


#### DRILLING TEMPLATE



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

### SENSOR DIMENSIONS



### ORDERING CODE

MODEL	POLE PITCH	POWER SUPPLY	CABLE LENGTH
<b>VI110L</b>	<b>2</b>	<b>B</b>	<b>M01</b>

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

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

M04 = 4 m  
 M01 = 1 m  
 M0.2 = 0.2 m

Example  **DIGITAL READOUT VI110L 2 B M01**