

CASE

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.
Retaining clip in acetal resin based (POM) technopolymer, black colour, matte finish.

PLATE WITH KEYBOARD

Polycarbonate resistant to greases, oils, alcohol and mineral acids.

PROTECTION CLASS

- IP54, see EN 60529 table (on page A-18).
- IP67, see EN 60529 table (on page A-18).

FEATURES AND APPLICATIONS

MPI-R10 measuring system connected to a specific sensor FC-MPI (see page -), combined with the magnetic band M-BAND-10 (see page 686), is a complete system for the measurement of linear and angular displacement (with a minimum radius of 65 mm).

Characterised by an extremely easy assembly, it allows precise alignment and positioning, reducing time and machining procedures to the minimum.

- Maximum ease of assembly and disassembly operations of the device from the panel, thanks to a system with retention wing (ELESA PATENT).

- 7-digit LCD of 12 mm height and special characters.
- Programmable with 4 multifunction keys.
- Values displayed in millimeters, inches or angular degrees.
- Display of absolute or incremental mode.
- Up to 10 programmable offset values.
- Storage and display of 32 target positions.
- Long-life internal lithium battery.
- Buffered memory during battery substitution.
- Housing for FC-MPI connector with snap-in assembly system for easy insertion and removal.

For further information read the operating instructions.

SPECIAL EXECUTIONS ON REQUEST

The display of special plate may be supplied with customised graphic symbols, marks or writings.

MAGNETIC SENSOR WITH CABLE

FC-MPI (see page 687) to be ordered separately.

ACCESSORIES ON REQUEST

Magnetic band M-BAND-10 (see page 686).

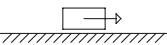


Mechanical and electrical characteristics

Power supply	Lithium battery 1/2 AA 3.6 V (included in the supply).
Battery life	3 years
Display	7-digit LCD of 12 mm height and special characters
Reading scale	-199999; 999999
Number of decimal digits	programmable
Unit of measure	millimeters, inches or angular degrees. programmable
Max operating speed	1 ÷ 5 m/s programmable (1)
Resolution (2)	0.01 mm - 0.001 in - 0.01°
Precision (3)	±0.03 mm
Repeatability (4)	0.0002 x L mm (L = value measured in mm)
Self-diagnostic	Battery check, sensor check, magnetic tape check
Protection class	IP54 or IP67
Working temperature	0 ÷ 50 °C
Storing temperature	-20 ÷ +60 °C
Relative humidity	Max. 95% at 25°C without condensation
Operating environment	Internal use
Altitude	Protected

- (1) Reading speed affects battery life.
(2) Resolution: the smallest variation in length that the system is able to display.
(3) Accuracy: the maximum deviation of the value measured by the system with respect to the real value.
(4) Repeatability: the degree of closeness between a measurement series of the same sample, when the individual measurements are made, leaving the measurement conditions unchanged.

Linear movement measuring



Angular movement measuring



R min. 65mm

ASSEMBLY INSTRUCTIONS

- Drill the sheet (thickness 0.7 ± 2 mm) according to the template dimensions.
- Remove all drilling burrs before fitting the case.
- Fit the lower part of the case into the housing and press until the complete snap fitting (Fig.1).

BATTERY REPLACEMENT INSTRUCTIONS

- Remove the indicator from its seat, applying pressure to the retention wing bringing it to the stop with the aid of a slotted screwdriver (Fig.2).
- Unscrew the AISI 304 stainless steel self-tapping screw with six-lobe socket for TORX® T06 tool and remove the closing plate (Fig.3).
- Replace the battery paying attention not to invert the polarity (see the position indicated on the cover).
- The replacement of the battery if carried out within 10 seconds (duration of the buffer power supply) avoids the loss of the configuration parameters.

Drilling template

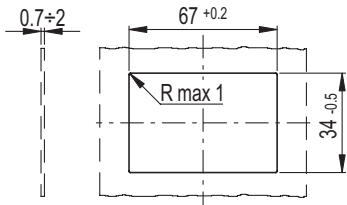


Fig.1

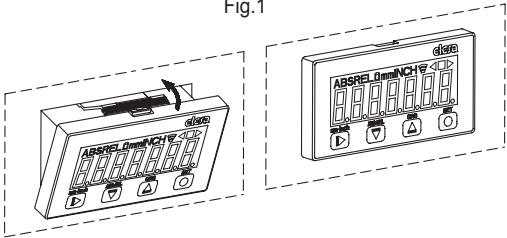


Fig.2

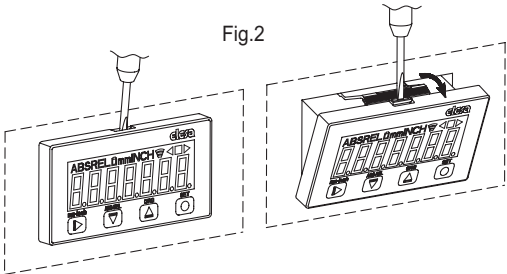
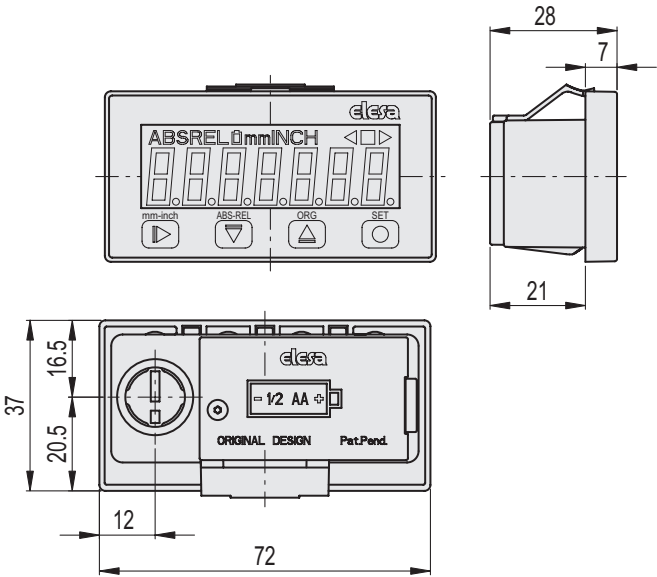
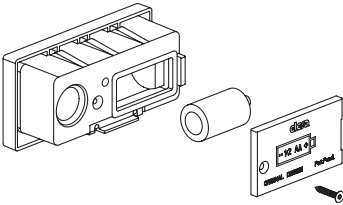


Fig.3



Code	Description	Protection class	⚖
CE.99951	MPI-R10-IP54	IP54	50
CE.99956	MPI-R10-IP67	IP67	50