

## CASE

Glass-fibre reinforced polyamide based (PA) technopolymer, black colour, matte finish.

Retaining wing 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-19).
- IP67, see EN 60529 table (on page A-19).

## 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 -), 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 -) to be ordered separately.

## ACCESSORIES ON REQUEST

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



### Mechanical and electrical characteristics

Power supply	Lithium battery 1/2 AA 3.6 V (included in the supply).
Battery life	4 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)	±0.1mm
Repeatability (4)	0.001 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
Polarity inversion	Protected

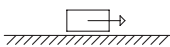
(1) Reading speed affects battery life.

(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

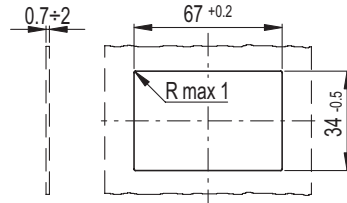


Fig.1

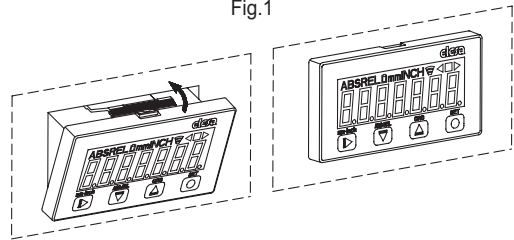


Fig.3

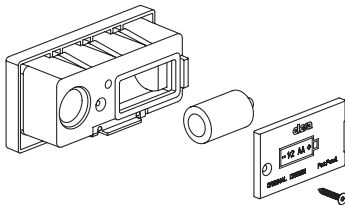
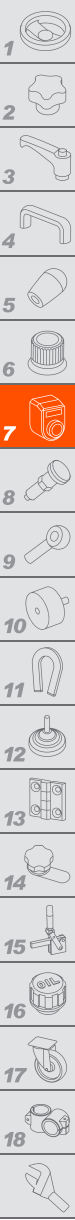
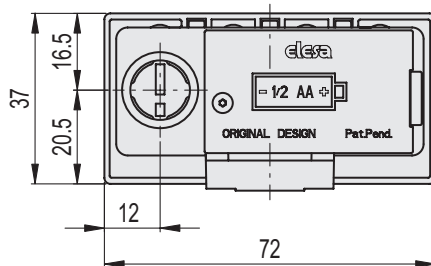
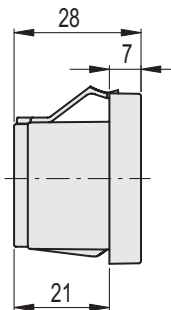
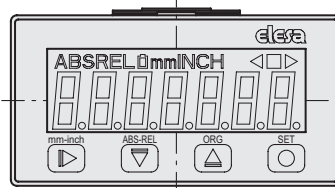
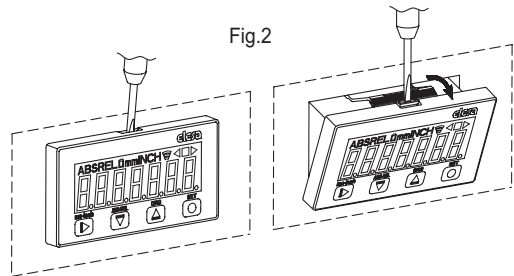


Fig.2



**METRIC**

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