























Magnetic measuring system

Length and angle modes

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

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 multifuction 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.

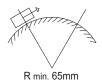
ACCESSORIES ON REQUEST

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





Angular movement measuring





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.	
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.

2

3

5

6

10













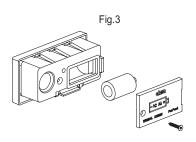
Rotary controls 7

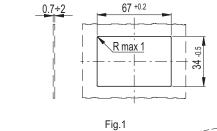
ASSEMBLY INSTRUCTIONS

- 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).

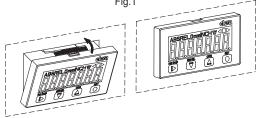
BATTERY REPLACEMENT INSTRUCTIONS

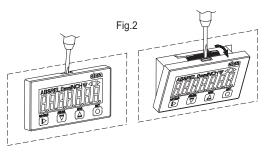
- Remove the indicator from its seat, applying pressure to the retention wing bringing it to the stop with the aid of a slotted screwdriver (Fig.2).
- Unscrew the AISI 304 stainless steel self-tapping screw with sixlobe socket for TORX** T06 tool and remove the closing plate (Fig.3).
- Replace the battery 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.

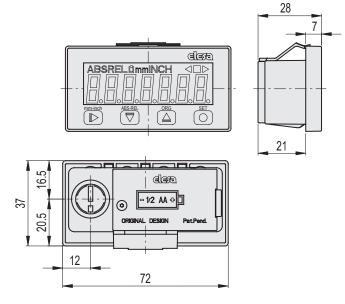




Drilling template







Code	Description	Protection class	47
CE.99951	MPI-R10-IP54	IP54	50
CE.99956	MPI-R10-IP67	IP67	50