

**BASE AND CASE**

High-resistance polyamide based (PA) technopolymer.
Black base.

Case in the following colours:

- **C2:** RAL 2004 orange, glossy finish.
- **C3:** RAL 7035 grey, glossy finish.

Available on request in RAL 7021 grey-black colour (C1).

Cover with perfectly sealed gasket and AISI 304 stainless steel UNI 6955 type self-tapping screws with six-lobe socket TORX® T06 (registered trademark by TEXTRON INC.).

The ultrasonic welding between the base and the case prevents separation and avoids dust and liquid penetration.

BOSS

AISI 304 stainless steel with DIA 0.75 (Ø 19.05 mm) reamed hole, fitting to shaft by means of AISI 304 stainless steel grub screw, hexagon socket and cup end, included in the supply.

WINDOW

Transparent polyamide based (PA-T) technopolymer, moulded over the case and with a perfect seal. Resistant to solvents, oils, greases and other chemical agents (avoid contact with alcohol during cleaning operations).

DISPLAY

- 6-digit LCD of 0.47 (12 mm) height and special characters.

The visualization parameters can be set and modified by the operator by means of appropriate keys:

- values displayed in mm, inches or degrees
- display of mode for use (absolute or incremental mode)
- reading orientation (right or reverse).

KEYBOARD

Polyester membrane. Resistant to solvents, alcohol, acids, alkalis.

INTERNAL GASKET

O-ring front sealing in NBR synthetic rubber assembled between the case and the boss.

Brass bushing with double O-ring sealing in NBR synthetic rubber inside the rear cavity of the base (DD52R-E-SST-IP67).

REAR GASKET

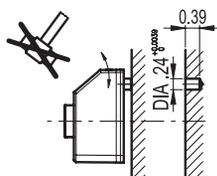
Foam polyethylene, included in the supply.

STANDARD EXECUTIONS

- **DD52R-E-SST-IP65:** completely sealed indicator with IP65 protection class, see IEC 529 table (on page A-19).
- **DD52R-E-SST-IP67:** completely sealed indicator with IP67 protection class, see IEC 529 table (on page A-19), obtained by means of a brass bushing with double seal ring inside the rear cavity of the base.

ASSEMBLY INSTRUCTIONS

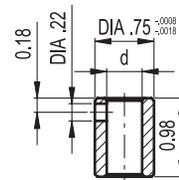
1. Drill a DIA 0.24 by 0.39 (Ø 6 by 10 mm) hole in the body of the machine with a 1.18 (30 mm) centre distance from the shaft to fit the rear referring pin.
2. Fit the indicator onto the shaft and make sure that the referring pin fit the hole.
3. Clamp the bushing to the shaft by tightening the grub screw with hexagon socket and cup end.



ELESA Original design

ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY)

RB52-SST: AISI 304 stainless steel reduction sleeves.

**RB52-SST-AISI 304**

Code	Description	d
CE997941	RB52 3/4-3/8-SST-304	0.375±.0008
CE997951	RB52 3/4-1/2-SST-304	0.500±.0008
CE997961	RB52 3/4-5/8-SST-304	0.625±.0010

FEATURES AND APPLICATIONS

DD52R-E position indicators, with battery power supply, can be used on passing through shafts in any position to provide the reading of the absolute or incremental positioning of a machine component.

The 6-digit display of 0.47 (12 mm) height ensures excellent readability even from a distance and from different viewing angles.

The window in transparent technopolymer protects the LCD display against accidental shocks.

The high protection class, IP 65 or IP67, makes the indicator suitable for applications that require frequent washing, even with water jets.

In the operating mode, by using the 4 function keys, it is possible to select the incremental or the absolute mode, the unit of measure (mm, inches or degrees), reset the absolute counter or load a preset source value and the preset offset value.

In the programming mode, through the 4 function keys, it is possible to program the reading after one revolution of the shaft, the direction of rotation, the display orientation, the resolution (number of decimal digits displayed), the source value and the offset value, the max. speed of rotation and set the functions of the keys among different options available.

The internal battery ensures long battery life (over 8 years). A special symbol appears on the display when it is necessary to replace the battery. The replacement can be performed easily by removing the front cover (Fig. 1), without disassembly of the indicator from the control shaft and without the loss of configuration parameters.

Further technical information available in Operating instructions.

Mechanical and electrical characteristics	
Tension feed	Lithium battery CR2477 3.0 V
Battery life	8 years
Display	6-digit LCD of 12 mm height and
Reading scale	-199999; 999999
Number of decimal digits	programmable (1)
Unit of measure	mm, inches, degrees programmable (1)
Rotation max. speed	300/600/1000 r.p.m (2) programmable (1)
Precision	10.000 impulses / revolution
Protection class	IP65 o IP67
Working temperature	0 ÷ 50 °C
Storing temperature	-20 ÷ +60 °C
Relative humidity	Max. 95% at 25°C without condensation
Interference protection	IEC 61326-1

(1) See the operating instructions.

(2) Default: 600 r.p.m.

Higher rotation speed to 600 r.p.m. can be maintained for short periods of time.

The value of the max. speed affects the battery life.

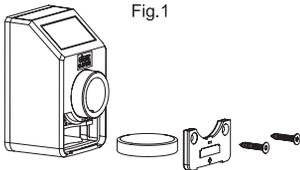
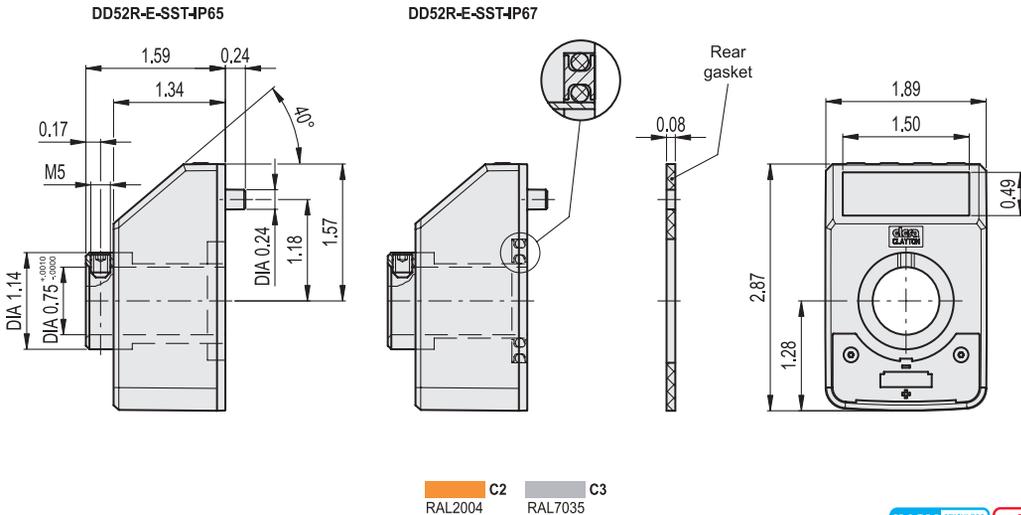


Fig. 1



Code	Description	⚖
CE999052	DD52R-E-SST-IP65 F.3/4-C2	0.28
CE999051	DD52R-E-SST-IP65 F.3/4-C3	0.28
CE999062	DD52R-E-SST-IP67 F.3/4-C2	0.31
CE999061	DD52R-E-SST-IP67 F.3/4-C3	0.31

