DD52R-E

Electronic digital position indicator

direct drive, 6-digit display, technopolymer

BASE AND CASE

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

Case in the following colours:

- C1: RAL 7021 grey-black, glossy finish.
- C2: RAL 2004 orange, glossy finish.
- C3: RAL 7035 grey, glossy finish.
- C55: RAL 5005 blue colour, glossy finish.

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 bonding between the base and the containment case using a highperformance sealant, in addition to preventing the penetration of dust and liquids, prevents them from detaching during use.

BOSS

& 8 & 9 (O10 AISI 304 stainless steel with Ø 20 mm H7 reamed hole, fitting to shaft by means of AISI 304 stainless steel grub screw, hexagon socket and cup end UNI 5929-85, 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 12,0 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, 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, supplied.

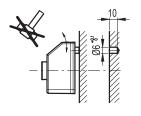
STANDARD EXECUTIONS

- DD52R-E-SST-IP65: completely sealed indicator with IP 65 protection class, see EN 60529 table (on page A-19).

DD52R-E-SST-IP67: completely sealed indicator with IP 67 protection class, see EN 60529 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

- Drill a Ø 6 mm by 10 mm hole in the body of the machine with a 30 mm centre distance from the spindle to fit the rear referring pin.
- Fit the indicator onto the spindle and make sure that the referring pin fit the hole.
- 3. Clamp the boss to the spindle by tightening the grub screw with hexagon socket and cup end, according to UNI 5929-85.



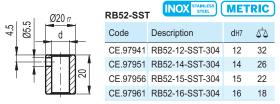


RoHS

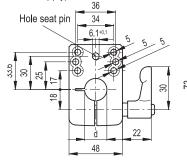
ELESA Original design

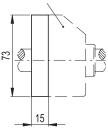
ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY)

- MDX-52: polyamide based (PA) technopolymer knob.
- RB52-SST: AISI 304 stainless steel reduction sleeves.



- BSA52-E: die-cast zinc alloy bases for spindle locking, epoxy resin coating, black colour, matte finish. GN 302 adjustable handle with die-cast zinc alloy lever body and AISI 304 stainless steel clamping element. A Ø 6.1 mm hole to fit the referring pin of the indicator. Handle positioned either on the right or on the left. Fitting to the machine by means of two M4 cylindrical-head screws (not included in the supply).





METRIC

Position indicator

BSA52-E

BONDE E				
Code	Description	dH7	5	
CE.99091	BSA52-E-12	12	249	
CE.99093	BSA52-E-14	14	245	
CE.99094	BSA52-E-15	15	243	
CE.99095	BSA52-E-16	16	242	
CE.99099	BSA52-E-20	20	230	

Position indicators

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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 12,0 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 degree, IP 65 or IP67, makes the indicator suitable for applications that require frequent washing, even with intense water jets.

The product is not suitable for use in continuous total or partial immersion. 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 for the different options available.

The internal battery has a battery life up to 5 years. A specific symbol appears on the display when the battery needs replacing. It is easy to replace the battery by removing the front cover (Fig. 1) without having to remove the indicator from the drive shaft and without losing the configuration parameters.

Further technical information available in "Operating instructions".



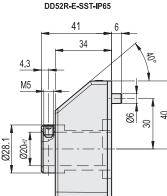
Mechanical and electrical characteristics			
Power supply	Lithium battery CR2477 3.0 V		
Battery life	up to 5 years		
Display	6-digit LCD of 12 mm height and special characters		
Reading scale	-199999; 999999		
Number of decimal digits	programmable (1)		
Unit of measure	mm. inches, degrees		
Unit of measure	pply Lithium battery CR2477 3.0 V fe up to 5 years r 6-digit LCD of 12 mm height and special characters cale -199999; 999999 mal digits programmable ⁽¹⁾ sure mm. inches, degrees programmable ⁽¹⁾ 300/600/1000 r.p.m ⁽²⁾ speed 300/600/1000 r.p.m ⁽²⁾ programmable ⁽¹⁾ 10.000 impulses / revolution class IP65 or IP67 erature -20 + +60 °C nidity Max. 95% at 25°C without condensation		
Detetion may around	300/600/1000 r.p.m ⁽²⁾		
Rotation max. speed	programmable (1)		
Resolution	10.000 impulses / revolution		
Protection class	IP65 or IP67		
Working temperature	0 ÷ 50 °C		
Storing temperature	-20 ÷ +60 °C		
Relative humidity			
Interference protection			

(1) See the operating instructions.

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

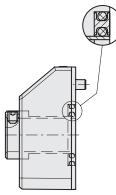
Higher rotation speed to 600 r.p.m. can be maintained for short periods of time.

The value of the max. speed affects the battery life. Battery life depends on the conditions of use (setup, temperature, ...). The indicated value is an estimate made in temperature conditions > 20 ° C & < 30 °C, and default setup. Furthermore, this value refers to the condition of the device when it leaves the Elesa factory. Long storage times must always be considered for the estimation of the battery life when the device becomes operational.



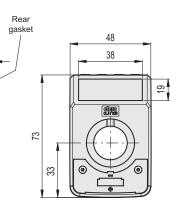
Code

CE.99053 CE.99052 CE.99051 CE.99055 CE.99063 CE.99062 CE.99061 CE.99065



C2

DD52R-E-SST-IP67



RAL7021 RAL2004 ſ RAI 7035 RAI 5005

C3

C55

NOX	STAINLESS STEEL	METRIC

	STEEL (MILLING)	
Description	5	10
DD52R-E-SST-IP65-C1	129	indicators
DD52R-E-SST-IP65-C2	129	cat
DD52R-E-SST-IP65-C3	129	Ipu
DD52R-E-SST-IP65-C55	129	
DD52R-E-SST-IP67-C1	141	Position
DD52R-E-SST-IP67-C2	141	Dos
DD52R-E-SST-IP67-C3	141	
DD52R-E-SST-IP67-C55	141	85

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