Electronic digital position indicator

direct drive, 5-digit display, technopolymer











































Position indicators

2



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 grev. 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.

AISI 304 stainless steel with Ø 14 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

- 5-digit LCD of 8 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

Brass bushing with double O-ring sealing in NBR synthetic rubber inside the rear cavity of the base (DD51-E-SST-IP67).

REAR GASKET

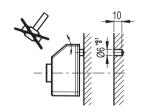
Foam polyethylene, supplied.

STANDARD EXECUTIONS

- DD51-E-SST-IP65: completely sealed indicator with IP 65 protection class, see EN 60529 table (on page A-19).
- DD51-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

- 1. Drill a Ø 6 mm by 10 mm hole in the body of the machine with a 22 mm centre distance from the spindle to fit the rear referring pin.
- 2. 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.







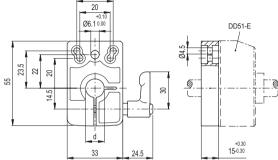
ELESA Original design

ACCESSORIES ON REQUEST (TO BE ORDERED SEPARATELY)

- MDX-51: polyamide based (PA) technopolymer knob.
- RB51-SST: AISI 304 stainless steel reduction sleeves.

	اما	0	014 f7	RB51-SST		INO	STEEL
3.5	04.25	Ĩ	d	Code	Description	dH7	47
		, 1	.	CE.95941	RB51-6-SST-304	6	20
				CE.95951	RB51-8-SST-304	8	17
	1	И		CE.95956	RB51-10-SST-304	10	11
		4	<u> </u>	CE.95961	RB51-12-SST-304	12	8

BSA51-E: die-cast zinc alloy bases for spindle locking, epoxy resin coating, black colour, matte finish. GN 302.1 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).



BSA51-E

Code	Description	dH7	7.7
CE.85925	BSA51-E-8	8	141
CE.85927	BSA51-E-10	10	167
CE.85929	BSA51-E-12	12	134
CE.85931	BSA51-E-14	14	131



FEATURES AND APPLICATIONS

DD51-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 5-digit display of 8.0 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.

In the operating mode, by using the 3 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 3 function keys, it is possible to program the reading after one revolution of the shaft, the direction of rotation, the diplay 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 has a battery life up to 3 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.

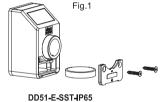
Further technical information available in "Operating instructions".

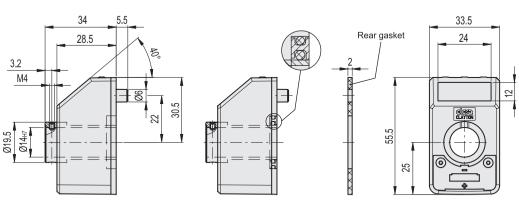
Mechanical and electrical characteristics				
Power supply	Lithium battery CR2450 3.0 V			
Battery life	up to 3 years			
Display	5-digit LCD of 8 mm height and special characters			
Reading scale	-19999; 99999			
Number of decimal digits	programmable (1)			
l lock of one one	millimetres, inches, degrees			
Unit of measure	programmable (1)			
Detetion may aread	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	Max. 95% at 25°C without condensation			
Interference protection	Complies with Directive 2014/30/EU (EMC)			

- (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 and < 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.





DD51-E-SST-IP67

		III STEEL
Code	Description	44
CE.99003	DD51-E-SST-IP65-C1	67
CE.99002	DD51-E-SST-IP65-C2	67
CE.99001	DD51-E-SST-IP65-C3	67
CE.99005	DD51-E-SST-IP65-C55	67
CE.99013	DD51-E-SST-IP67-C1	72
CE.99012	DD51-E-SST-IP67-C2	72
CE.99011	DD51-E-SST-IP67-C3	72
CE.99015	DD51-E-SST-IP67-C55	72

C2

RAL2004

C3

RAL7035

C55

RAL5005





INOX STAINLESS

RAL7021

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