

DD52

ELESA Original design

Direct drive digital position indicators



• Case and base

High-resistance polyamide based (PA) technopolymer. The base is ultrasonically welded to give more strength and avoid dust penetration. Resistant to solvents, oils, greases and other chemical agents.

• Window

Transparent polyamide based (PA-T) technopolymer. The snap connection with slight interference between the magnifying window and the case avoids dust penetration. Resistant to solvents, oils, greases and other chemical agents (avoid contact with alcohol during cleaning operations).

• Rear gasket

Polyurethan (included in the supply).

• Colour

- Execution **AR**: RAL 2004 orange, glossy finish.

- Execution **GR**: RAL 7035 grey, glossy finish.

On request and for a quantity of at least 10 pieces, it is available in anthracite colour (execution NR).

Base in black colour.

• Assembly

Black-oxide steel bushing with $\varnothing 20$ mm H7 reamed hole, fitting to shaft by means of a grub screw with hexagon socket and cup end, according to UNI 5929-85, supplied assembled.

• Reading

Five-digit roller counter (four black rolls and one red roll or three black rolls and two red rolls). The digits of red rolls show the decimal values. An additional graduated scale next to the last decimal digit offers further accuracy of reading. The display indicates the distance covered by the mechanism controlled by the spindle from the start position (0).

Display reading is available in different positions (see "Table of the possible combinations" on the following page).

• Direction of rotation

- D: clockwise. Increasing values with clockwise rotation of the bushing.

- S: anti-clockwise. Increasing values with anti-clockwise rotation of the bushing.

• Weight

130 grams.

Special executions on request (For sufficient quantities)

- AISI 303 stainless steel bushings.

- Special readings after one revolution.

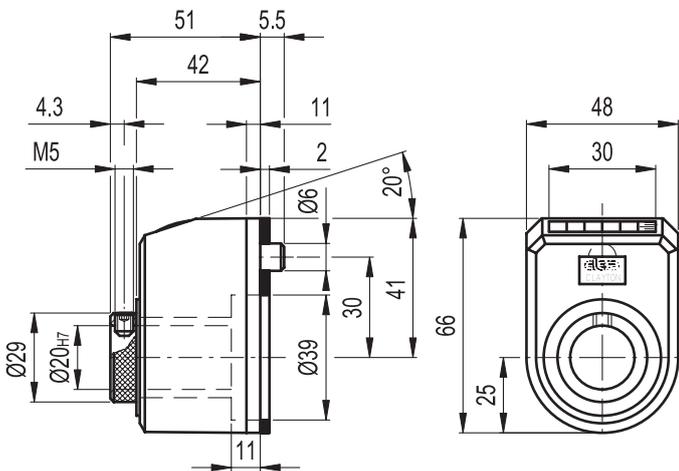
- Special reduction sleeves.

Features and applications

Direct drive digital position indicators are suitable on passing through spindles in any position to give direct reading of the positioning of a machine component. They are designed also for motor driven applications (see "Table of the possible combinations" on the following page).

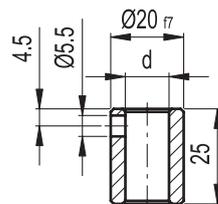
Ergonomy and design

Compact roller counter, ergonomically designed digits for rapid reading. The readability of the counter is increased by the magnifying window.



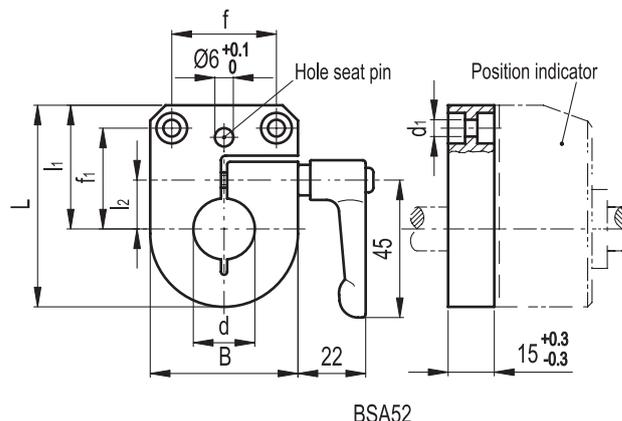
Accessories on request (to be ordered separately)

- **RB52:** steel reduction sleeves (see table). On request and for sufficient quantities the reduction sleeves are available in other dimensions or in AISI 303 stainless steel.
- **DG52:** front powdertight gasket, NBR synthetic rubber (code CE.87910).
- **BSA52:** aluminium bases for spindle locking, epoxy resin coating, black colour, matte finish (see table). Type GN 300 adjustable handle. BSA52 locking bases allow an easy and quick locking of the spindles after their positioning. They are equipped with a $\varnothing 6$ mm hole to fit the referring pin of the indicator. They can be assembled with the handle either on the right or on the left and can be fitted to the machine by means of two M5 cylindrical head screws (not included in the supply).



RB52		Mounting hole
Code	Description	d H7
CE.87940	RB52-12	12
CE.87950	RB52-14	14
CE.87955	RB52-15	15
CE.87960	RB52-16	16

BSA52		Main dimensions							Mounting hole	
Code	Description	B	L	d ₁	f	f ₁	l ₁	l ₂	d	g
CE.87901	BSA52-12	48	68	5.5	34	33	42.5	16	12	145
CE.87903	BSA52-14	48	68	5.5	34	33	42.5	16	14	142
CE.87904	BSA52-15	48	68	5.5	34	33	42.5	16	15	140
CE.87905	BSA52-16	48	68	5.5	34	33	42.5	16	16	138
CE.87909	BSA52-20	48	68	5.5	34	33	42.5	16	20	136



Codes and descriptions of standard combinations											
AN (inclined upper)			AR (inclined lower)			FN (front upper)			FR (front lower)		
Grey	Orange	Description *	Grey	Orange	Description *	Grey	Orange	Description *	Grey	Orange	Description *
Code			Code			Code			Code		
CE.86101	CE.86103	DD52-AN-000.50-D-	CE.86601	CE.86603	DD52-AR-000.50-D-	CE.87101	CE.87103	DD52-FN-000.50-D-	CE.87601	CE.87603	DD52-FR-000.50-D-
CE.86102	CE.86104	DD52-AN-000.50-S-	CE.86602	CE.86604	DD52-AR-000.50-S-	CE.87102	CE.87104	DD52-FN-000.50-S-	CE.87602	CE.87604	DD52-FR-000.50-S-
CE.86131	CE.86133	DD52-AN-001.00-D-	CE.86631	CE.86633	DD52-AR-001.00-D-	CE.87131	CE.87133	DD52-FN-001.00-D-	CE.87631	CE.87633	DD52-FR-001.00-D-
CE.86132	CE.86134	DD52-AN-001.00-S-	CE.86632	CE.86634	DD52-AR-001.00-S-	CE.87132	CE.87134	DD52-FN-001.00-S-	CE.87632	CE.87634	DD52-FR-001.00-S-
CE.86151	CE.86153	DD52-AN-0001.0-D-	CE.86651	CE.86653	DD52-AR-0001.0-D-	CE.87151	CE.87153	DD52-FN-0001.0-D-	CE.87651	CE.87653	DD52-FR-0001.0-D-
CE.86152	CE.86154	DD52-AN-0001.0-S-	CE.86652	CE.86654	DD52-AR-0001.0-S-	CE.87152	CE.87154	DD52-FN-0001.0-S-	CE.87652	CE.87654	DD52-FR-0001.0-S-
CE.86181	CE.86183	DD52-AN-0002.0-D-	CE.86681	CE.86683	DD52-AR-0002.0-D-	CE.87181	CE.87183	DD52-FN-0002.0-D-	CE.87681	CE.87683	DD52-FR-0002.0-D-
CE.86182	CE.86184	DD52-AN-0002.0-S-	CE.86682	CE.86684	DD52-AR-0002.0-S-	CE.87182	CE.87184	DD52-FN-0002.0-S-	CE.87682	CE.87684	DD52-FR-0002.0-S-
CE.86197	CE.86199	DD52-AN-0002.5-D-	CE.86697	CE.86699	DD52-AR-0002.5-D-	CE.87197	CE.87199	DD52-FN-0002.5-D-	CE.87697	CE.87699	DD52-FR-0002.5-D-
CE.86198	CE.86200	DD52-AN-0002.5-S-	CE.86698	CE.86700	DD52-AR-0002.5-S-	CE.87198	CE.87200	DD52-FN-0002.5-S-	CE.87698	CE.87700	DD52-FR-0002.5-S-
CE.86211	CE.86213	DD52-AN-0003.0-D-	CE.86711	CE.86713	DD52-AR-0003.0-D-	CE.87211	CE.87213	DD52-FN-0003.0-D-	CE.87711	CE.87713	DD52-FR-0003.0-D-
CE.86212	CE.86214	DD52-AN-0003.0-S-	CE.86712	CE.86714	DD52-AR-0003.0-S-	CE.87212	CE.87214	DD52-FN-0003.0-S-	CE.87712	CE.87714	DD52-FR-0003.0-S-
CE.86231	CE.86233	DD52-AN-0004.0-D-	CE.86731	CE.86733	DD52-AR-0004.0-D-	CE.87231	CE.87233	DD52-FN-0004.0-D-	CE.87731	CE.87733	DD52-FR-0004.0-D-
CE.86232	CE.86234	DD52-AN-0004.0-S-	CE.86732	CE.86734	DD52-AR-0004.0-S-	CE.87232	CE.87234	DD52-FN-0004.0-S-	CE.87732	CE.87734	DD52-FR-0004.0-S-
CE.86251	CE.86253	DD52-AN-0005.0-D-	CE.86751	CE.86753	DD52-AR-0005.0-D-	CE.87251	CE.87253	DD52-FN-0005.0-D-	CE.87751	CE.87753	DD52-FR-0005.0-D-
CE.86252	CE.86254	DD52-AN-0005.0-S-	CE.86752	CE.86754	DD52-AR-0005.0-S-	CE.87252	CE.87254	DD52-FN-0005.0-S-	CE.87752	CE.87754	DD52-FR-0005.0-S-
CE.86263	CE.86265	DD52-AN-0006.0-D-	CE.86763	CE.86765	DD52-AR-0006.0-D-	CE.87263	CE.87265	DD52-FN-0006.0-D-	CE.87763	CE.87765	DD52-FR-0006.0-D-
CE.86264	CE.86266	DD52-AN-0006.0-S-	CE.86764	CE.86766	DD52-AR-0006.0-S-	CE.87264	CE.87266	DD52-FN-0006.0-S-	CE.87764	CE.87766	DD52-FR-0006.0-S-
CE.86291	CE.86293	DD52-AN-0010.0-D-	CE.86791	CE.86793	DD52-AR-0010.0-D-	CE.87291	CE.87293	DD52-FN-0010.0-D-	CE.87791	CE.87793	DD52-FR-0010.0-D-
CE.86292	CE.86294	DD52-AN-0010.0-S-	CE.86792	CE.86794	DD52-AR-0010.0-S-	CE.87292	CE.87294	DD52-FN-0010.0-S-	CE.87792	CE.87794	DD52-FR-0010.0-S-

* Complete the description of the standard item needed by adding one of the colours reported in the table: GR (grey) or AR (orange).

Special executions on request (for sufficient quantities)

Stainless steel bushings - Special readings after one revolution (for spindle with pitch in mm or inch) - Special reduction sleeves - Case in different colours