

elesa® Position Indicators

4-Digit Mechanical Position Indicators

Overview

The compact four-digit roller counter indicates the displacement of the mechanism controlled by the spindle from the start position (0). The red digits show the decimal values and have a graduated scale for more accurate readings. A rugged polyamide housing provides a high IP65 protection rating, making them suitable for applications requiring frequent washing, even with intense water jets.

Features

- Reading orientation clockwise or counter clockwise options available
- Inclined upper or inclined lower display orientation available
- Graduated scale for accurate readings
- IP65 protection rating



DD51-AN-00.50-S

Inclined Upper



DD51-AR-00.20-D12

Inclined Lower

4-Digit Mechanical Position Indicators Selection Table

Part Number	Price	Display Orientation	Counts Per Revolution	Count Direction	Display Size	Mounting Hole Size	Weight grams [oz]	Drawing Link
DD51-AN-0.050-D12	\$56.00	Inclined Upper	0.050	Clockwise	4-digit	1/2 in	54.43 [1.91]	PDF
DD51-AN-00.20-D12	\$56.00	Inclined Upper	00.20	Clockwise				PDF
DD51-AN-00.20-S12	\$56.00	Inclined Upper	00.20	Counter Clockwise				PDF
DD51-AR-00.20-D12	\$56.00	Inclined Lower	00.20	Clockwise				PDF
DD51-AR-00.20-S12	\$56.00	Inclined Lower	00.20	Counter Clockwise				PDF
DD51-AN-001.0-D12	\$56.00	Inclined Upper	001.0	Clockwise				PDF
DD51-AN-001.0-S12	\$56.00	Inclined Upper	001.0	Counter Clockwise		PDF		
DD51-AR-001.0-D12	\$56.00	Inclined Lower	001.0	Clockwise		PDF		
DD51-AR-001.0-S12	\$56.00	Inclined Lower	001.0	Counter Clockwise		PDF		
DD51-AN-0.100-D	\$56.00	Inclined Upper	0.100	Clockwise		14mm	45.35 [1.59]	PDF
DD51-AN-00.50-D	\$56.00	Inclined Upper	00.50	Clockwise				PDF
DD51-AN-00.50-S	\$56.00	Inclined Upper	00.50	Counter Clockwise				PDF
DD51-AR-00.50-D	\$56.00	Inclined Lower	00.50	Clockwise	PDF			
DD51-AR-00.50-S	\$56.00	Inclined Lower	00.50	Counter Clockwise	PDF			
DD51-AN-001.0-D	\$56.00	Inclined Upper	001.0	Clockwise	PDF			
DD51-AN-001.0-S	\$56.00	Inclined Upper	001.0	Counter Clockwise	PDF			
DD51-AR-001.0-D	\$56.00	Inclined Lower	001.0	Clockwise	PDF			
DD51-AR-001.0-S	\$56.00	Inclined Lower	001.0	Counter Clockwise	PDF			
DD51-AN-005.0-D	\$56.00	Inclined Upper	005.0	Clockwise			PDF	

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5-Digit Mechanical Position Indicators

Overview

The compact five-digit roller counter indicates the displacement of the mechanism controlled by the spindle from the start position (0). The red digits show the decimal values and have a graduated scale for more accurate readings. A rugged polyamide housing provides a high IP65 protection rating, making them suitable for applications requiring frequent washing, even with intense water jets.

Features

- Reading orientation clockwise or counter clockwise options available
- Inclined upper or inclined lower display orientation available
- Graduated scale for accurate readings
- IP65 protection rating



DD52R-AN-000.50-D

Inclined Upper



DD52R-AR-000.50-D34

Inclined Lower

5-Digit Mechanical Position Indicators Selection Table

Part Number	Price	Display Orientation	Counts Per Revolution	Count Direction	Display Size	Mounting Hole Size	Weight grams [oz]	Drawing Link
DD52R-AN-000.10-D34	\$57.00	Inclined Upper	000.10	Clockwise	5-digit	3/4 in	108.86 [3.83]	PDF
DD52R-AN-000.20-D34	\$57.00	Inclined Upper	000.20	Clockwise				PDF
DD52R-AN-000.20-S34	\$57.00	Inclined Upper	000.20	Counter Clockwise				PDF
DD52R-AR-000.20-D34	\$57.00	Inclined Lower	000.20	Clockwise				PDF
DD52R-AR-000.20-S34	\$57.00	Inclined Lower	000.20	Counter Clockwise				PDF
DD52R-AN-000.25-D34	\$57.00	Inclined Upper	000.25	Clockwise				PDF
DD52R-AN-000.50-D34	\$57.00	Inclined Upper	000.50	Clockwise				PDF
DD52R-AN-000.50-S34	\$57.00	Inclined Upper	000.50	Counter Clockwise				PDF
DD52R-AR-000.50-D34	\$57.00	Inclined Lower	000.50	Clockwise				PDF
DD52R-AR-000.50-S34	\$57.00	Inclined Lower	000.50	Counter Clockwise				PDF
DD52R-AN-001.00-D34	\$57.00	Inclined Upper	001.00	Clockwise		PDF		
DD52R-AN-0001.0-D34	\$57.00	Inclined Upper	0001.0	Clockwise		PDF		
DD52R-AN-0001.0-S34	\$57.00	Inclined Upper	0001.0	Counter Clockwise		PDF		
DD52R-AR-0001.0-D34	\$57.00	Inclined Lower	0001.0	Clockwise		PDF		
DD52R-AR-0001.0-S34	\$57.00	Inclined Lower	0001.0	Counter Clockwise		PDF		
DD52R-AN-000.50-D	\$57.00	Inclined Upper	000.50	Clockwise		20mm	99.97 [3.51]	PDF
DD52R-AN-000.50-S	\$57.00	Inclined Upper	000.50	Counter Clockwise				PDF
DD52R-AR-000.50-D	\$57.00	Inclined Lower	000.50	Clockwise				PDF
DD52R-AR-000.50-S	\$57.00	Inclined Lower	000.50	Counter Clockwise				PDF
DD52R-AN-0001.0-D	\$57.00	Inclined Upper	0001.0	Clockwise				PDF
DD52R-AN-0001.0-S	\$57.00	Inclined Upper	0001.0	Counter Clockwise	PDF			
DD52R-AR-0001.0-D	\$57.00	Inclined Lower	0001.0	Clockwise	PDF			
DD52R-AR-0001.0-S	\$57.00	Inclined Lower	0001.0	Counter Clockwise	PDF			

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Mechanical Position Indicators Specifications

Mechanical Position Indicators Specifications		
Type	DD51	DD52
Display	4mm [0.15 in] 4-digit	6mm [0.23 in] 5-digit
Reading Scale	0-999.9	0-9999.9
Mounting Orientation	Universal	
Working Temperature	32 to 176°F [0 to 80°C]	
Storage Temperature	32 to 122°F [0 to 50°C]	
Relative Humidity	Max. 95% at 25°C without condensation	
Environmental Protection	IP65	
Housing Material	High-resistance polyamide (PA) technopolymer	
Window Material	Polyamide technopolymer (PA-T)	
Boss Material	Black-oxide steel	
Environment	Indoor use	
Agency Approvals	RoHS	

Mechanical Position Indicators Additional Information

Mechanical Position Indicators Additional Information							
Part Number DD51 Series	0001	0001	0001	Threads Per Inch	Inches Per Threads	Pitch	Speed RPM*
<u>DD51-AN-0.050-D12</u>	005.0	00.50	0.050	2	5.0	–	500
<u>DD51-Ax-00.20-x12</u>	002.0	00.20	0.020	5	2.0	–	1250
<u>DD51-Ax-001.0-x12</u>	001.0	00.10	0.010	10	0.1	–	1500
<u>DD51-AN-0.100-D</u>	010.0	01.00	0.100	–	–	10.0	250
<u>DD51-Ax-00.50-x</u>	005.0	00.50	0.050	–	–	5.0	500
<u>DD51-Ax-001.0-x</u>	001.0	00.10	0.010	–	–	1.0	1500
Part Number DD52 Series	00001	00001	00001	Threads Per Inch	Inches Per Thread	Pitch	Speed RPM*
<u>DD52R-AN-000.10-D34</u>	0001.0	000.10	00.010	1.0	1.0	–	1500
<u>DD52R-Ax-000.20-x34</u>	0002.0	000.20	00.020	5	2.0	–	1250
<u>DD52R-AN-000.25-D34</u>	0002.5	000.25	00.025	4	2.5	–	1000
<u>DD52R-Ax-000.50-x34</u>	0005.0	000.50	00.050	2	5.0	–	500
<u>DD52R-AN-001.00-D34</u>	0010.0	001.00	00.100	10	10.0	–	250
<u>DD52R-Ax-0001.0-x34</u>	0001.0	000.10	00.010	1.0	1.0	–	1500
<u>DD52R-Ax-000.50-x</u>	0005.0	000.50	00.050	–	–	5.0	500
<u>DD52R-Ax-0001.0-x</u>	0001.0	000.10	00.010	–	–	1.0	1500

The digits of RED rolls show the decimal values.

* The maximum rotation speed (rpm) of the spindle reported in the table corresponds to a maximum rotation of 2500 units (for imperial models) 25000 units (for metric models) of the last roll on the right of the counter.

Rotational speed tests have been performed in our laboratory under standard operating conditions. Small misalignments (not compromising the correct reading) of counter digits can occur due to high tolerances between gear teeth, designed to prevent damage from sudden acceleration or stop.

elesa® Position Indicators

Black Oxide Steel Reducer Bushings

Overview

Elesa reducer bushings, available in imperial and metric sizes, are designed to adapt smaller shaft diameters to fit the position indicators.

Features

- Black oxide steel
- RoHS



RB52-34-14

Black Oxide Steel Reducer Bushings							
Part Number	Price	Outside Diameter	Inside Diameter	Housing Material	For Use With	Weight grams [oz]	Drawing Link
RB51-12-14	\$8.50	1/2 in	1/4 in	Black oxide steel	Elesa DD51 imperial indicators	18.14 [0.63]	PDF
RB51-12-38	\$8.50		3/8 in			13.60 [0.47]	PDF
RB51-6	\$7.50	14mm	6mm		Elesa DD51 metric indicators	22.67 [0.79]	PDF
RB51-8	\$7.50		8mm			18.14 [0.63]	PDF
RB51-10	\$7.50		10mm			13.60 [0.47]	PDF
RB51-12	\$7.50		12mm			9.07 [0.32]	PDF
RB52-34-14	\$10.00	3/4 in	1/4 in		Elesa DD52 imperial indicators	54.43 [1.91]	PDF
RB52-34-38	\$10.00		3/8 in			36.28 [1.27]	PDF
RB52-34-12	\$10.00		1/2 in			27.21 [0.96]	PDF
RB52-34-58	\$10.00		5/8 in			18.14 [0.63]	PDF
RB52-12	\$8.00	20mm	12mm		Elesa DD52 metric indicators	36.28 [1.27]	PDF
RB52-14	\$8.00		14mm			27.21 [0.96]	PDF
RB52-15	\$8.00		15mm			22.67 [0.79]	PDF
RB52-16	\$8.00		16mm			18.14 [0.63]	PDF

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Spoked Handwheels

Overview

Handwheels are commonly used in applications requiring precise manual positioning or alignment of equipment, machinery, or systems. Elesa spoked handwheels are available with a foldaway revolving handle or no handle.

Features

- High-resilience polypropylene based technopolymer (PP)
- RoHS



VRTP-80-IR-A516



VRTP-125-A12

Spoked Handwheels										
Part Number	Price	Nominal Diameter	Bore Diameter	Handle Type	Material	For Use With	Weight grams [oz]	Drawing Link		
VRTP-80-IR-A516	\$35.00	3in	5/16 in	Foldaway revolving handle	Polypropylene	Elesa DD5x imperial indicators	0.22 [0.008]	PDF		
VRTP-100-IR-A38	\$49.00	4in	3/8 in				0.37 [0.013]	PDF		
VRTP-125-IR-A38	\$51.00	5in	3/8 in				0.52 [0.018]	PDF		
VRTP-160-IR-A12	\$56.00	6in	1/2 in				0.87 [0.030]	PDF		
VRTP-200-IR-A58	\$66.00	8in	5/8 in				1.38 [0.048]	PDF		
VRTP-80-A516	\$12.00	3in	5/16 in	N/A			Polypropylene	Elesa DD5x imperial indicators	0.16 [0.005]	PDF
VRTP-100-A38	\$14.00	4in	3/8 in						0.22 [0.008]	PDF
VRTP-125-A38	\$15.00	5in	3/8 in						0.36 [0.012]	PDF
VRTP-160-A12	\$20.00	6in	1/2 in						0.62 [0.021]	PDF
VRTP-200-A58	\$32.00	8in	5/8 in						1.08 [0.038]	PDF
VRTP-80-IR-A8	\$38.00	80mm	8mm	Foldaway revolving handle	Polypropylene	Elesa DD5x metric indicators			102 [3.598]	PDF
VRTP-100-IR-A10	\$43.00	100mm	10mm						163 [5.749]	PDF
VRTP-125-IR-A12	\$45.00	125mm	12mm						230 [8.113]	PDF
VRTP-160-IR-A14	\$51.00	160mm	14mm						388 [13.686]	PDF
VRTP-200-IR-A16	\$62.00	200mm	16mm						593 [20.917]	PDF
VRTP-80-A8	\$11.00	80mm	8mm	N/A			Polypropylene	Elesa DD5x metric indicators	74 [2.610]	PDF
VRTP-100-A10	\$12.00	100mm	10mm						100 [3.527]	PDF
VRTP-125-A12	\$14.00	125mm	12mm						160 [5.643]	PDF
VRTP-160-A14	\$20.00	160mm	14mm						275 [9.700]	PDF
VRTP-200-A16	\$30.00	200mm	16mm						460 [16.226]	PDF