

# 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        |
|-----------------------------------|---------|---------------------|-----------------------|-------------------|--------------|--------------------|-------------------|---------------------|
| <a href="#">DD51-AN-0.050-D12</a> | \$56.00 | Inclined Upper      | 0.050                 | Clockwise         | 4-digit      | 1/2 in             | 54.43 [1.91]      | <a href="#">PDF</a> |
| <a href="#">DD51-AN-00.20-D12</a> | \$56.00 | Inclined Upper      | 00.20                 | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AN-00.20-S12</a> | \$56.00 | Inclined Upper      | 00.20                 | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AR-00.20-D12</a> | \$56.00 | Inclined Lower      | 00.20                 | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AR-00.20-S12</a> | \$56.00 | Inclined Lower      | 00.20                 | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AN-001.0-D12</a> | \$56.00 | Inclined Upper      | 001.0                 | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AN-001.0-S12</a> | \$56.00 | Inclined Upper      | 001.0                 | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AR-001.0-D12</a> | \$56.00 | Inclined Lower      | 001.0                 | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AR-001.0-S12</a> | \$56.00 | Inclined Lower      | 001.0                 | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AN-0.100-D</a>   | \$56.00 | Inclined Upper      | 0.100                 | Clockwise         |              | 14mm               | 45.35 [1.59]      | <a href="#">PDF</a> |
| <a href="#">DD51-AN-00.50-D</a>   | \$56.00 | Inclined Upper      | 00.50                 | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AN-00.50-S</a>   | \$56.00 | Inclined Upper      | 00.50                 | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AR-00.50-D</a>   | \$56.00 | Inclined Lower      | 00.50                 | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AR-00.50-S</a>   | \$56.00 | Inclined Lower      | 00.50                 | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AN-001.0-D</a>   | \$56.00 | Inclined Upper      | 001.0                 | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AN-001.0-S</a>   | \$56.00 | Inclined Upper      | 001.0                 | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AR-001.0-D</a>   | \$56.00 | Inclined Lower      | 001.0                 | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AR-001.0-S</a>   | \$56.00 | Inclined Lower      | 001.0                 | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD51-AN-005.0-D</a>   | \$56.00 | Inclined Upper      | 005.0                 | Clockwise         |              |                    |                   | <a href="#">PDF</a> |

# elesa Position Indicators

## 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        |
|-------------------------------------|---------|---------------------|-----------------------|-------------------|--------------|--------------------|-------------------|---------------------|
| <a href="#">DD52R-AN-000.10-D34</a> | \$57.00 | Inclined Upper      | 000.10                | Clockwise         | 5-digit      | 3/4 in             | 108.86 [3.83]     | <a href="#">PDF</a> |
| <a href="#">DD52R-AN-000.20-D34</a> | \$57.00 | Inclined Upper      | 000.20                | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AN-000.20-S34</a> | \$57.00 | Inclined Upper      | 000.20                | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AR-000.20-D34</a> | \$57.00 | Inclined Lower      | 000.20                | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AR-000.20-S34</a> | \$57.00 | Inclined Lower      | 000.20                | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AN-000.25-D34</a> | \$57.00 | Inclined Upper      | 000.25                | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AN-000.50-D34</a> | \$57.00 | Inclined Upper      | 000.50                | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AN-000.50-S34</a> | \$57.00 | Inclined Upper      | 000.50                | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AR-000.50-D34</a> | \$57.00 | Inclined Lower      | 000.50                | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AR-000.50-S34</a> | \$57.00 | Inclined Lower      | 000.50                | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AN-001.00-D34</a> | \$57.00 | Inclined Upper      | 001.00                | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AN-0001.0-D34</a> | \$57.00 | Inclined Upper      | 0001.0                | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AN-0001.0-S34</a> | \$57.00 | Inclined Upper      | 0001.0                | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AR-0001.0-D34</a> | \$57.00 | Inclined Lower      | 0001.0                | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AR-0001.0-S34</a> | \$57.00 | Inclined Lower      | 0001.0                | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AN-000.50-D</a>   | \$57.00 | Inclined Upper      | 000.50                | Clockwise         |              | 20mm               | 99.97 [3.51]      | <a href="#">PDF</a> |
| <a href="#">DD52R-AN-000.50-S</a>   | \$57.00 | Inclined Upper      | 000.50                | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AR-000.50-D</a>   | \$57.00 | Inclined Lower      | 000.50                | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AR-000.50-S</a>   | \$57.00 | Inclined Lower      | 000.50                | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AN-0001.0-D</a>   | \$57.00 | Inclined Upper      | 0001.0                | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AN-0001.0-S</a>   | \$57.00 | Inclined Upper      | 0001.0                | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AR-0001.0-D</a>   | \$57.00 | Inclined Lower      | 0001.0                | Clockwise         |              |                    |                   | <a href="#">PDF</a> |
| <a href="#">DD52R-AR-0001.0-S</a>   | \$57.00 | Inclined Lower      | 0001.0                | Counter Clockwise |              |                    |                   | <a href="#">PDF</a> |

# elesa® Position Indicators

## 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        |
|----------------------------|---------|------------------|-----------------|-------------------|--------------------------------|-------------------|---------------------|
| <a href="#">RB51-12-14</a> | \$8.50  | 1/2 in           | 1/4 in          | Black oxide steel | Elesa DD51 imperial indicators | 18.14 [0.63]      | <a href="#">PDF</a> |
| <a href="#">RB51-12-38</a> | \$8.50  |                  | 3/8 in          |                   |                                | 13.60 [0.47]      | <a href="#">PDF</a> |
| <a href="#">RB51-6</a>     | \$7.50  | 14mm             | 6mm             |                   | Elesa DD51 metric indicators   | 22.67 [0.79]      | <a href="#">PDF</a> |
| <a href="#">RB51-8</a>     | \$7.50  |                  | 8mm             |                   |                                | 18.14 [0.63]      | <a href="#">PDF</a> |
| <a href="#">RB51-10</a>    | \$7.50  |                  | 10mm            |                   |                                | 13.60 [0.47]      | <a href="#">PDF</a> |
| <a href="#">RB51-12</a>    | \$7.50  |                  | 12mm            |                   |                                | 9.07 [0.32]       | <a href="#">PDF</a> |
| <a href="#">RB52-34-14</a> | \$10.00 | 3/4 in           | 1/4 in          |                   | Elesa DD52 imperial indicators | 54.43 [1.91]      | <a href="#">PDF</a> |
| <a href="#">RB52-34-38</a> | \$10.00 |                  | 3/8 in          |                   |                                | 36.28 [1.27]      | <a href="#">PDF</a> |
| <a href="#">RB52-34-12</a> | \$10.00 |                  | 1/2 in          |                   |                                | 27.21 [0.96]      | <a href="#">PDF</a> |
| <a href="#">RB52-34-58</a> | \$10.00 |                  | 5/8 in          |                   |                                | 18.14 [0.63]      | <a href="#">PDF</a> |
| <a href="#">RB52-12</a>    | \$8.00  | 20mm             | 12mm            |                   | Elesa DD52 metric indicators   | 36.28 [1.27]      | <a href="#">PDF</a> |
| <a href="#">RB52-14</a>    | \$8.00  |                  | 14mm            |                   |                                | 27.21 [0.96]      | <a href="#">PDF</a> |
| <a href="#">RB52-15</a>    | \$8.00  |                  | 15mm            |                   |                                | 22.67 [0.79]      | <a href="#">PDF</a> |
| <a href="#">RB52-16</a>    | \$8.00  |                  | 16mm            |                   |                                | 18.14 [0.63]      | <a href="#">PDF</a> |

# elesa® Position Indicators

## 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        |
| <a href="#">VRTP-80-IR-A516</a> | \$35.00 | 3in              | 5/16 in       | Foldaway revolving handle | Polypropylene | Elesa DD5x imperial indicators | 0.22 [0.008]      | <a href="#">PDF</a> |
| <a href="#">VRTP-100-IR-A38</a> | \$49.00 | 4in              | 3/8 in        |                           |               |                                | 0.37 [0.013]      | <a href="#">PDF</a> |
| <a href="#">VRTP-125-IR-A38</a> | \$51.00 | 5in              | 3/8 in        |                           |               |                                | 0.52 [0.018]      | <a href="#">PDF</a> |
| <a href="#">VRTP-160-IR-A12</a> | \$56.00 | 6in              | 1/2 in        |                           |               |                                | 0.87 [0.030]      | <a href="#">PDF</a> |
| <a href="#">VRTP-200-IR-A58</a> | \$66.00 | 8in              | 5/8 in        |                           |               |                                | 1.38 [0.048]      | <a href="#">PDF</a> |
| <a href="#">VRTP-80-A516</a>    | \$12.00 | 3in              | 5/16 in       | N/A                       |               |                                | 0.16 [0.005]      | <a href="#">PDF</a> |
| <a href="#">VRTP-100-A38</a>    | \$14.00 | 4in              | 3/8 in        |                           |               |                                | 0.22 [0.008]      | <a href="#">PDF</a> |
| <a href="#">VRTP-125-A38</a>    | \$15.00 | 5in              | 3/8 in        |                           |               |                                | 0.36 [0.012]      | <a href="#">PDF</a> |
| <a href="#">VRTP-160-A12</a>    | \$20.00 | 6in              | 1/2 in        |                           |               |                                | 0.62 [0.021]      | <a href="#">PDF</a> |
| <a href="#">VRTP-200-A58</a>    | \$32.00 | 8in              | 5/8 in        |                           |               |                                | 1.08 [0.038]      | <a href="#">PDF</a> |
| <a href="#">VRTP-80-IR-A8</a>   | \$38.00 | 80mm             | 8mm           | Foldaway revolving handle |               | Elesa DD5x metric indicators   | 102 [3.598]       | <a href="#">PDF</a> |
| <a href="#">VRTP-100-IR-A10</a> | \$43.00 | 100mm            | 10mm          |                           |               |                                | 163 [5.749]       | <a href="#">PDF</a> |
| <a href="#">VRTP-125-IR-A12</a> | \$45.00 | 125mm            | 12mm          |                           |               |                                | 230 [8.113]       | <a href="#">PDF</a> |
| <a href="#">VRTP-160-IR-A14</a> | \$51.00 | 160mm            | 14mm          |                           |               |                                | 388 [13.686]      | <a href="#">PDF</a> |
| <a href="#">VRTP-200-IR-A16</a> | \$62.00 | 200mm            | 16mm          |                           |               |                                | 593 [20.917]      | <a href="#">PDF</a> |
| <a href="#">VRTP-80-A8</a>      | \$11.00 | 80mm             | 8mm           | N/A                       |               |                                | 74 [2.610]        | <a href="#">PDF</a> |
| <a href="#">VRTP-100-A10</a>    | \$12.00 | 100mm            | 10mm          |                           |               |                                | 100 [3.527]       | <a href="#">PDF</a> |
| <a href="#">VRTP-125-A12</a>    | \$14.00 | 125mm            | 12mm          |                           |               |                                | 160 [5.643]       | <a href="#">PDF</a> |
| <a href="#">VRTP-160-A14</a>    | \$20.00 | 160mm            | 14mm          |                           |               |                                | 275 [9.700]       | <a href="#">PDF</a> |
| <a href="#">VRTP-200-A16</a>    | \$30.00 | 200mm            | 16mm          |                           |               |                                | 460 [16.226]      | <a href="#">PDF</a> |