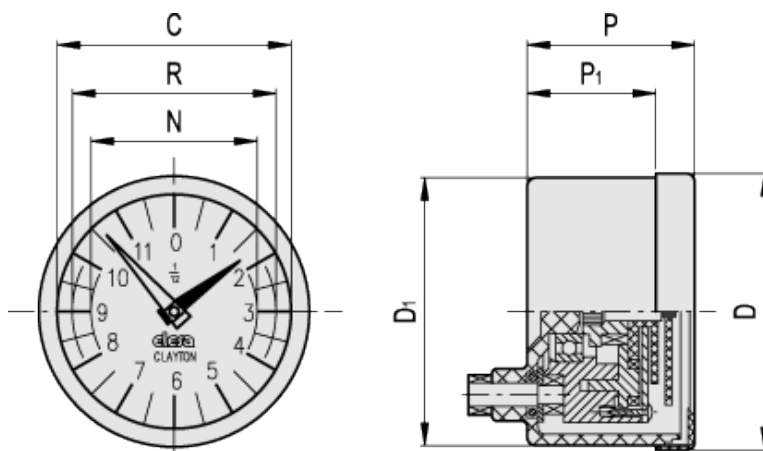


# PA11 PA12

Positive drive indicators



ELESA Original design



## technical informations

### Case

Glass-fibre reinforced polyamide based (PA) technopolymer.  
Moulded-in spindle.  
Resistant to solvents, oils, greases and other chemical agents.

### Bezel

Technopolymer. Moulded over the window.

### Colour

Black, matte finish.

### Window

Transparent polyamide based (PA-T) technopolymer (practically unbreakable).  
Resistant to solvents, oils, greases and other chemical agents (avoid contact with alcohol during cleaning operations).

## Dial

Natural matte anodised aluminium.  
Clockwise or anti-clockwise graduation, black colour.

## Reading

The black pointer indicates the number of turns of the spindle from the start position (0); the red pointer indicates the fractions of turn.

## Ratio

To choose the ratio see [Positive drive indicators introduction](#).

| Available ratios         |                 |   |   |   |   |    |    |    |    |    |                          |  |    |    |    |    |    |    |     |     |     |     |
|--------------------------|-----------------|---|---|---|---|----|----|----|----|----|--------------------------|--|----|----|----|----|----|----|-----|-----|-----|-----|
| PA11                     | 2               | 4 | 5 | 6 | 8 | 10 | 12 | 15 | 16 | 20 | 24                       | 30                                       | 36 | 40 | 48 | 50 | 60 | 72 | 100 | 120 | -   | -   |
| PA12                     | 2               | 4 | 5 | 6 | 8 | 10 | 12 | 15 | 16 | 20 | 24                       | 30                                       | 36 | 40 | 48 | 50 | 60 | 72 | 100 | 120 | 150 | 200 |
| <input type="checkbox"/> | Standard ratios |   |   |   |   |    |    |    |    |    | <input type="checkbox"/> | Special ratios on request (min. 10 pcs.) |    |    |    |    |    |    |     |     |     |     |

## IP protection

The ultrasonic welding of the window to the case guarantees the complete sealing with IP 65 protection class, see [IEC 529 table](#).

## Features and applications

Positive drive indicators are suitable with handwheels or knobs on spindles in any position.  
To choose the handwheel see the table "[Handwheels/knobs-possible assembly with indicators](#)".

## Special executions on request

- special dial with logo or customized graduations
- special ratios
- single pointer.

| Standard Elements                              |  |                |             | Ratio | Main dimension                                 |    |                |                | Dial |    |    | Weight<br>g |
|--|--|----------------|-------------|-------|--|----|----------------|----------------|------|----|----|-------------|
| Clockwise                                      |  | Anti-clockwise |             |       | D  | P  | D <sub>1</sub> | P <sub>1</sub> | C    | R  | N  |             |
| Code   | Description  | Code           | Description |       |  |    |                |                |      |    |    |             |
| CE.74021                                       | PA11-0010-D  | CE.74022       | PA11-0010-S | 10    | 49.8   | 30 | 48.2           | 23             | 42   | 37 | 30 | 80          |
| CE.74031                                       | PA11-0012-D  | CE.74032       | PA11-0012-S | 12    | 49.8   | 30 | 48.2           | 23             | 42   | 37 | 30 | 80          |
| CE.74053                                       | PA11-0020-D  | CE.74054       | PA11-0020-S | 20    | 49.8   | 30 | 48.2           | 23             | 42   | 37 | 30 | 80          |
| CE.74069                                       | PA11-0030-D  | CE.74070       | PA11-0030-S | 30    | 49.8   | 30 | 48.2           | 23             | 42   | 37 | 30 | 80          |
| CE.74401                                       | PA12-0010-D  | CE.74402       | PA12-0010-S | 10    | 68.5   | 32 | 67.0           | 25             | 60   | 51 | 44 | 130         |
| CE.74501                                       | PA12-0012-D  | CE.74502       | PA12-0012-S | 12    | 68.5   | 32 | 67.0           | 25             | 60   | 51 | 44 | 130         |
| CE.74601                                       | PA12-0020-D  | CE.74602       | PA12-0020-S | 20    | 68.5   | 32 | 67.0           | 25             | 60   | 51 | 44 | 130         |
| CE.74801                                       | PA12-0030-D  | CE.74802       | PA12-0030-S | 30    | 68.5   | 32 | 67.0           | 25             | 60   | 51 | 44 | 130         |
| Other ratios available (min. quantity 10 pcs.) |  |                |             |       | Special executions on request                  |    |                |                |      |    |    |             |
| PA11   | 2,4,5,6,8,15,16,24,36,40,48,50,60,72,100,120         |                |             |       | Special dial - Special ratios - Single pointer |    |                |                |      |    |    |             |
| PA12   | 2,4,5,6,8,15,16,24,36,40,48,50,60,72,100,120,150,200 |                |             |       |  |    |                |                |      |    |    |             |



drawings.

**STANDARD MACHINE ELEMENTS WORLDWIDE**