



## N LPED Compression Loadcell

### Description

- Capacity 100 kg
- Aluminum
- Combined error  $\leq \pm 0.08\%$
- Protection class IP65



Manufactured according to OIML R60 standards

### Technical data

| CAPACITY | kg | IECEx Ex EAC      | NET WEIGHT OF LOAD CELL (kg) | CODE    |
|----------|----|-------------------|------------------------------|---------|
| 100      |    | • •<br>ON REQUEST | -                            | LPED100 |

### Certifications

CERTIFICATIONS ON REQUEST

- ✓ Calibration report (ACCREDIA LAT traceability)
- Ex ATEX II 1GD (zone 0-1-2-20-21-22)
- IECEx IECEx (zone 0-1-2-20-21-22)
- EAC Complies with the Eurasian Custom Union regulations (Russia, Belarus, Kazakhstan)

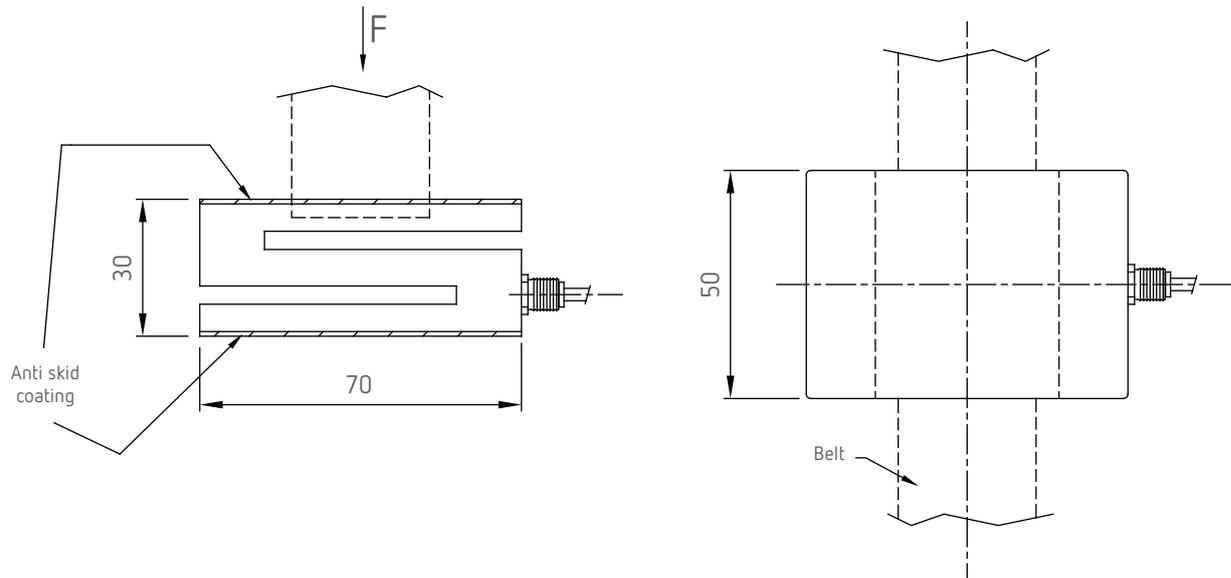
### Options on request

DESCRIPTION



Two redundant strain gauges Wheatstone bridges (350  $\Omega$ ) with two output cables; for dual safety systems

**DIMENSIONS (mm)**



**Technical features**

|                                     |                 |                                     |           |
|-------------------------------------|-----------------|-------------------------------------|-----------|
| Material                            | Aluminum        |                                     |           |
| Nominal load (E max)                | 100 kg          |                                     |           |
| Combined error                      | ≤±0.08%         |                                     |           |
| Protection class                    | IP65            |                                     |           |
| Rated output                        | 1 mV/V ±0.2%    | Input resistance                    | 350 Ω ±50 |
| Temperature effect on zero          | 0.005% °C       | Output resistance                   | 350 Ω ±5  |
| Temperature effect on span          | 0.003% °C       | Zero balance                        | ±1%       |
| Compensated temperature range       | -10 °C / +50 °C | Insulation resistance               | >5000 MΩ  |
| Operating temperature range         | -20 °C / +70 °C | Safe overload (% of full scale)     | 150%      |
| Creep at nominal load in 30 minutes | 0.03%           | Ultimate overload (% of full scale) | 300%      |
| Max supply voltage without damage   | 15 V            | Deflection at nominal load          | 0.25 mm   |

**Electrical connections**

|                |   |
|----------------|---|
| Cable length   | 2 m   |
| Cable diameter | 5 mm  |
| Cores          | 4 x 0.25 mm <sup>2</sup> / 6 x 0.14 mm <sup>2</sup> |

