

# Model SW355 Bellow Strain Gauge Load cell

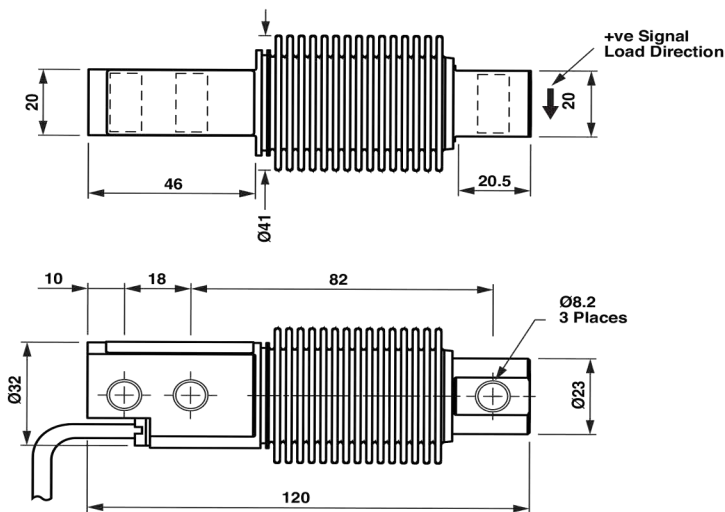
Welded, Hermetically Sealed Load Cell

## FEATURES

- Capacities 5–500 kg
- Stainless steel construction
- OIML R60 and NTEP approved
- IP68 protection
- **Optional**
  - EEx ia IIC T6 hazardous area approval
  - FM approval available



## OUTLINE DIMENSIONS in millimeters



## SPECIFICATIONS

| PARAMETER                           | VALUE                                               |              |                   |                   | UNIT                    |
|-------------------------------------|-----------------------------------------------------|--------------|-------------------|-------------------|-------------------------|
| Rated capacity – R.C. ( $E_{max}$ ) | 5, 10, 20, 30, 50, 100, 200, 250, 500               |              |                   |                   | kg                      |
| NTEP/OIML accuracy class            | NTEP                                                | Non-Approved | C3 <sup>(1)</sup> | C4 <sup>(2)</sup> |                         |
| Maximum no. of intervals (n)        | 4000 single                                         | 1000         | 3000              | 4000              |                         |
| $Y = E_{max}/V_{min}$               | 5800                                                | 2000         | 15000             | 13333             | Maximum available 15000 |
| Rated output – R.O.                 | 2.00 (UR matched = 2.02)                            |              |                   |                   | mV/V                    |
| Rated output tolerance              | 0.002                                               |              |                   |                   | ±mV/V                   |
| Zero balance                        | 0.04                                                |              |                   |                   | ±mV/V                   |
| Zero return, 30 min.                | 0.0125                                              | 0.0500       | 0.0170            | 0.0125            | ±% of applied load      |
| Total error                         | 0.0200                                              | 0.05         | 0.0200            | 0.0150            | ±% of rated output      |
| Temperature effect on zero          | 0.0023                                              | 0.007        | 0.0009            | 0.0011            | ±% of rated output/°C   |
| Temperature effect on output        | 0.001                                               | 0.0040       | 0.0010            | 0.0008            | ±% of applied load/°C   |
| Temperature range, compensated      | -10 to +40                                          |              |                   |                   | °C                      |
| Temperature range, safe             | -20 to +70                                          |              |                   |                   | °C                      |
| Maximum safe central overload       | 150                                                 |              |                   |                   | % of R.C.               |
| Ultimate central overload           | 300                                                 |              |                   |                   | % of R.C.               |
| Excitation, recommended             | 10                                                  |              |                   |                   | VDC or VAC RMS          |
| Excitation, maximum                 | 15                                                  |              |                   |                   | VDC or VAC RMS          |
| Input impedance                     | 380±10                                              |              |                   |                   | Ω                       |
| Output impedance                    | 355±5                                               |              |                   |                   | Ω                       |
| Insulation resistance               | >2000                                               |              |                   |                   | MΩ                      |
| Cable length                        | 3                                                   |              |                   |                   | m                       |
| Cable type                          | 6-wire, braided, polyurethane, dual floating screen |              |                   |                   | Standard                |
| Construction                        | Stainless steel                                     |              |                   |                   |                         |
| Environmental protection            | IP68                                                |              |                   |                   |                         |
| Recommended torque                  | 22.0                                                |              |                   |                   | N*m                     |

## Wiring Schematic Diagram

