



Single Point Load Cell SPSXL (SPSXL-Ex)

The robust digital single point load cell type SPSXL in stainless steel is hermetically sealed to IP69K. The main applications are graders, checkweighers, filling and dosing equipment, belt scales, platform scales, bench scales etc. ATEX (Ex) and IECEx approved versions are available.

Do you need help?

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SPSXL (Non-ATEX) SPSXL-Ex (ATEX)

Capacity (Emax): 20, 30, 50, 100, 150, 200, 250, 300 kg

Accuracy: Industrial 0.025%, Precision 0.015%

Overload Tolerance: Up to 1000% of rated capacity



Specifications

| Parameter | Unit | 0.025% | 0.015% |
|-----------------------------------|----------------|--|--------|
| Rated capacity (E_{max}) | kg | 20, 50, 100, 150*, 200*, 250*, 300* | |
| Safe overload limit | % of E_{max} | up to 500 | |
| Safe siderload limit | % of E_{max} | 500 to 2000 | |
| Combined Accuracy | % of E_{max} | 0.025 | 0.015 |
| Repeatability | % of E_{max} | 0.012 | 0.010 |
| Hysteresis | % of E_{max} | 0.010 | 0.005 |
| Creep 30 min. | % of E_{max} | 0.015 | 0.010 |
| Temperature effect on zero | % of E_{max} | 0.030 | 0.025 |
| Temperature effect on sensitivity | % / 10°C | 0.030 | 0.025 |
| Compensated temperature range | °C | -10 to 50 | |
| Operating temperature range | °C | -40 to +70 (100* *) | |
| Deflection at E_{max} | mm | max 0.10 | |
| Measuring rate | Hz | 500 | |
| Supply | Vdc | 24Vdc ±5% | |
| Internal resolution | Bit | 24 | |
| Material | | Stainless steel 17-4PH and AISI316 | |
| Protection | | IP68 | |
| Cable | | 6 meter standard coaxial RG-58 (Ø6mm) with BNC connector | |
| Maximum cable length | m | 100 | |
| Weight | kg | 5.5 | |
| Output options | | PROFINET, Profibus DP, EtherNet/IP, Modbus TCP/IP, EtherCat, Rs485, 4-20mA, 0-10Vdc | |

* with M8 thread

** only for non-ATEX and with Teflon load cell cable

Applications

Dynamic weighing
Multihead weighers
Factory Automation
Packaging machines
Filling and dosing
Flow measurement
Bench and platform scales
Conveyor scales
Process weighing
Checkweighers

Options

ATEX and IECEx certified (Zone 1, 2, 21, 22)
Customized versions available
Load cell cable length 10, 20, 50 or 100 meters
Mud resistant and Halogen free cables for offshore installation
Special PE load cell cable available for freezing low temperature (can be used down to -50 degrees Celsius)
Special Teflon load cell cable available for very high temperature (can be used up to 100 degrees Celsius)