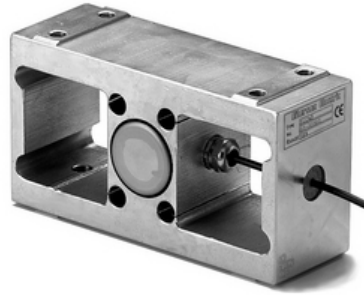


2000 Generation Load Cells

Web Tension Load Cell SLCAD



Special Features

- Made in Denmark
- Robust capacitive technology
- Patented high reliability capacitive sensor
- High tolerance of up to 1000% overload
- Sealed to IP67
- Withstands welding voltages and ESD
- Cable length up to 100meters
- Same dimensions as ABB PFTL 101A web tension load cell
- Capacity (Emax): 500N, 1, 2, 5kN
- Accuracy: Industrial 0.25%, Precision 0.10%
- Pre-calibrated with signal in kg or N
- Calibration independent of cable length
- Easy mechanical and electrical installation
- [Web Tension Digital Load Cells Examples](#)

Applications

Applications

- Web tension control
- Tension measurement
- Offshore/Marine applications
- Force measurement

[Web Tension Digital Load Cells Examples](#)

The SLCAD range of load cells are designed primarily for measuring the horizontal forces of web tension. The sensor is mounted in between the pillow block bearing and the machine frame.

Load cells for measuring horizontal forces such as the Eilersen SLCAD load cells, are ideal in applications with high tare loads and relatively small tensions in for example paper machines.

In applications where high overloads often occur, the high overload tolerance of the Eilersen load cell adds reliability and minimizes the need for maintenance.

If no or only a small horizontal resultant force is present, you can mount the load cell on a slant to give rise to one.

Eilersen provides software free of charge for calculating the forces in web tension applications:

- [EEWT Calculator Software](#)
- [EEWT Calculator Software \(ZIP\)](#)
- [EEWT Calculator Documentation](#)

The SLCAD version is the standard load cell while the SLCAD-ST load cell offers extra safety in applications with heavy rollers and temperature compensation to 100 degr. Celsius.

The use of this software for calculation of web tension and calibration factors or selection of sensors are at the users OWN RISK.

Eilersen Electric AS assumes no responsibility for any loss or damage resulting from the use of this software.

In order to reduce the risk please send the input data and the results to Eilersen Electric A/S for review and confirmation.



Specifications

Parameter	Unit	0.025%**
Rated capacity (E_{max})	N	500, 1000, 2000, 5000*
Safe overload limit	% of E_{max}	Up to 1000
Safe sideload limit	% of E_{max}	Up to 1000
Combined accuracy	% of E_{max}	0.25**
Repeatability	% of E_{max}	0.02
Hysteresis	% of E_{max}	0.04
Creep 30 min.	% of E_{max}	0.03
Compensated temperature range	°C	-10 to 50 (100***)
Operating temperature range	°C	-50 to 70 (100***)
Measuring rate	Hz	200
Supply	Vdc	24Vdc ±5%
Internal resolution	Bit	24
Material		Electroplated Steel
Protection		IP67
Cable		6meter standard coaxial RG-58 (Ø6mm) with BNC connector
Maximum cable length	m	100
Weight	kg	9.0
Output options		PROFINET, Profibus DP, EtherNet/IP, Modbus ASCII/RTU, RS485, 4-20mA, 0-10Vdc

* higher capacity available on request

** higher accuracy available on request

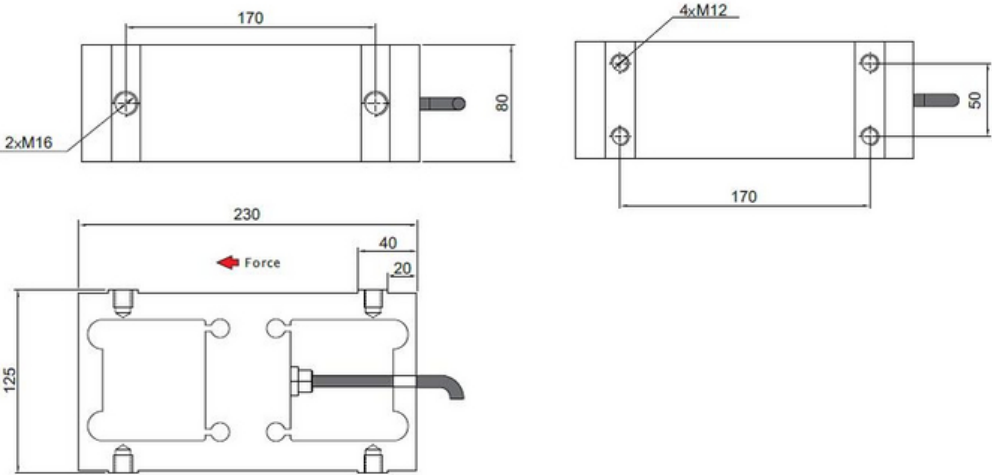
*** special version SLCAD-ST with Teflon cable

SLCAD - Eilersen

Dimensions (mm)

Digital Web Tension Load Cell - Type SLCAD

Dimensions (mm)



Options

- Free application software
- Type SLCAD-ST with extra safety and temperature range
- Customized versions available
- Load cell cable length 10, 20, 50 or 100meters
- 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)

Documentation

- Examples SLCAD Web Tension Load Cells
- SLCAD Heavy Duty Load Cell STEP 3D CAD file (right click -> "Save Link As...")

- [Eilersen web tension sensor tests and comparison with ABB - PDF](#)
- [Guideline Correct Mounting of BNC Connector \(UK\) PDF](#)
- [VIDEO - Correct Mounting of BNC Connector](#)

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