

Single Point Load Cell SPSX (SPSX-Ex)

The robust digital single point load cell type SPSX is produced in stainless steel and hermetically sealed to IP68. The main applications are graders, multihead weighers, checkweighers, filling machines, belt scales, platform scales, bench scales etc. The SPSX load cell is OIML and NTEP approved. ATEX (Ex) and IECEx approved versions for installation in ATEX zone are also available.

Type:	SPSX (Non-ATEX) SPSX-Ex (ATEX)

Capacity (Emax):	5, 10, 20, 30, 50, 100, 150, 200 kg
Accuracy:	Industrial 0.025%, Precision 0.015%, High Precision 0.010%
Overload Tolerance:	Up to 1000% of rated capacity

Special Features

Made in Denmark

Electropolished stainless steel 1.4542 (17-4 PH)

Laser welded with Duplex 1.4462 stainless steel

ATEX and IECEx certified (Zone 1, 2, 21, 22)

Robust capacitive technology

High tolerance of up to 1000% overload

High accuracy, High resolution

Platform size up to 400 x 400mm

Hermetically sealed to IP68

Capacity (Emax): 5, 10, 20, 30, 50, 100, 150, 200 kg

Accuracy: Industrial 0.025%, Precision 0.015%, High Precision 0.010%

Small deflection at rated capacity

Replaceable load cell cable

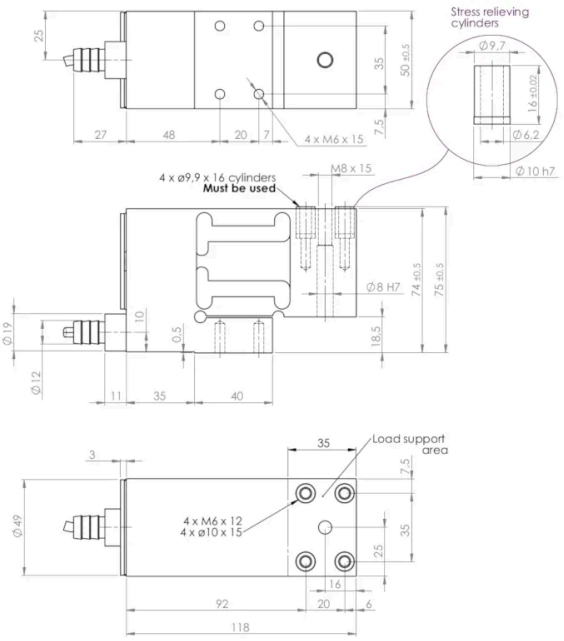
High resonance frequency (spring rate) for rapid dynamic weighing

Easy mechanical and electrical installation

Digital filters

OIML and NTEP approvals

Dimensions (mm)



Specifications

Parameter	Unit	0.025% C3	0.015%* C4
Rated capacity (E_{max})	kg	5, 10, 20, 30, 50, 100, 150, 200	
Safe overload limit	% of E_{max}	Up to 500	
Safe siderload limit	% of E_{max}	500 to 1000	
Minimum dead load	% of E_{max}	0	
Combined Accuracy	% of E_{max}	0.025	0.015
Repeatability	% of E_{max}	0.012	0.010
Linearity	% of E_{max}	0.015	0.010
Creep 30 min.	% of E_{max}	0.015	0.010
Temperature effect on zero	% /10°C	0.035	0.030
Temperature effect on sensitivity	% /10°C	0.035	0.030
Compensated temperature range	°C	-10 to 50	
Operating temperature range	°C	-40 to +70 (100**)	
Deflection at E_{max}	mm	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	2.5	
Output options		PROFINET, Profibus DP, EtherNet/IP, Modbus TCP/IP, EtherCat, RS485, 4-20mA, 0-10Vdc	

* available in higher accuracy upon request

** 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 (Zone 1, 2, 21, 22) version type SP5075A

ATEX II 2G Ex ia IIC T6 / ATEX II 2D Ex iaD 21 T85°C

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)

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