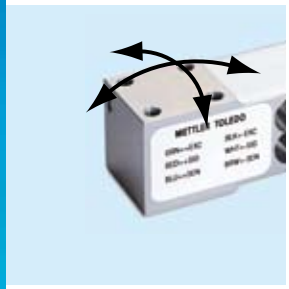
SSP1241 Load Cell

Stainless Steel Single Point
Platform Size 500x500 mm

Stainless Steel Scales

SSP1241 provides the best weighing performance for bench scales and smaller floor scales where a stainless steel spring element is required. It is ideal for stainless steel scales or general weighing applications where a higher degree of weghing corrosion resistance is required.



Off-Center compensation

One load cell can be used to support a weighing platform and, due to the off-center load compensation, the SSP1241 will weigh within tolerance regardless of load application point.

High Robustness

SSP1241 allows for 50% static overload without compromising the weighing performance. The stainless steel material provides very good corrosion resistance suitable for most industrial applications.

SSP1241 Single Point Load Cell

The SSP1241 load cell features:

- OIML R60 C3 approval
- Off-center load compensation (R76)
- 500x500 mm platform size
- IP67 protection class
- Stainless Steel
- 30-300kg capacity range

The SSP1241 is the ideal solution for retail scales, small platform scales and packaging and process weighing where a stainless steel load cell is required. Due to the low profile the integration into any system is easy. The broad capacity range allows wide application in industrial weighing applications.

METTLER TOLEDO

SSP1241 Load Cell Specifications

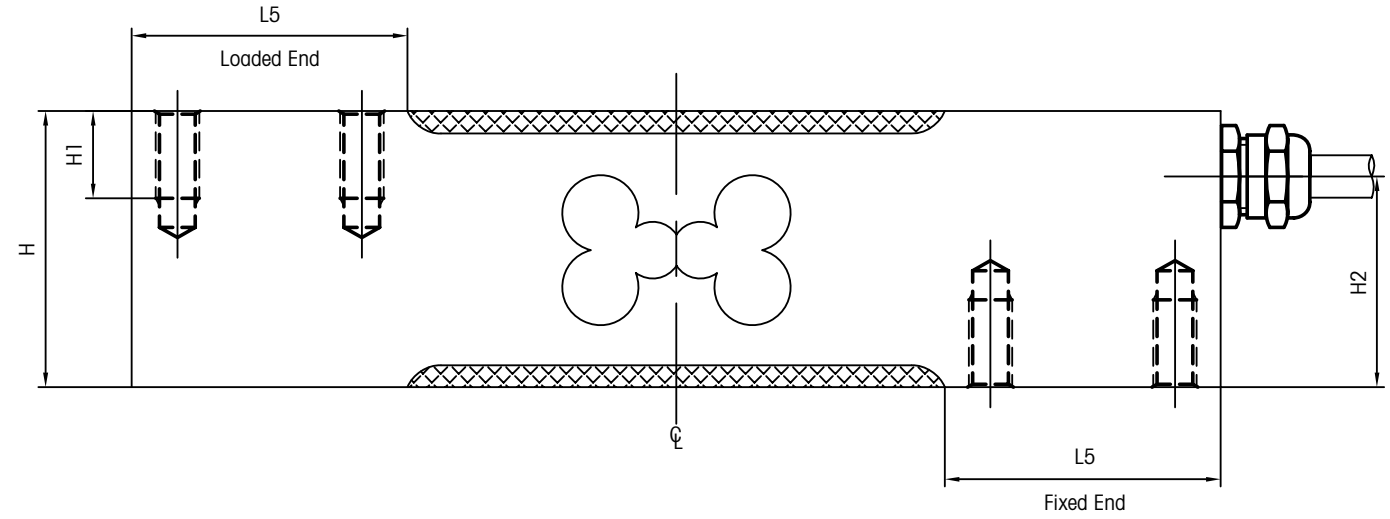
Parameter		unit of measure	Specification				
Model No:			SSP1241				
Rated Capacity (R.C.)		kg (lb, nominal)	30 (66)	50 (110)	100 (220)	200 (441)	300 (661)
Rated Output		mV/V @R.C.	2 ± 0.2				
Zero load Output		%R.C.	≤ 10				
Combined Error [1]		%R.C.	≤ 0.018				
Repeatability Error		%R.C.	≤ 0.01				
Creep, 30 minute		%A.L. [2]	≤ 0.0167				
Min. Dead Load Output Return (DR), 30 min		%A.L.	≤ 0.0167				
Temperature Effect on	Min Dead load Output	%R.C./°C (../°F)	≤ 0.0023 (0.0011)				
	Sensitivity	%A.L./°C (../°F)	≤ 0.0009 (0.0005)				
Temperature Range	Compensated	°C (°F)	–10 to +40 (+14 to +104)				
	Operating	°C (°F)	–20 to +65 (–4 to + 150)				
	Safe Storage	°C (°F)	–20 to +80 (–4 to +176)				
OIML / European Approval [3]	OIML Cert. No.		R60/2000-NL -02.14				
	European Cert. No.		NMi TC6046				
	Class		C3				
	n_{max}		3000				
	Y		6000				
	Z		3000				
	P_{LC}		0.7				
	Humidity Symbol		none				
	Min. dead load	kg (lb)	0 (0)				
Excitation Voltage	Recommended	V AC/DC	5~15				
	Maximum	V AC/DC	20				
Terminal Resistance	Excitation	Ω	387 ± 10				
	Output	Ω	350 ± 4				
Insulation Resistance @50VDC		MΩ	≥ 5000				
Breakdown Voltage		V AC	> 500				
Material	Spring Element		Stainless steel				
	Enclosure		none				
	Cable entry fitting		none				
	Cable		PVC				
Protection	Type		silicone cover				
	IP Rating		IP 67				
Load Limit	Safe	%R.C.	150				
	Ultimate	%R.C.	300				
Safe Dynamic Load		%R.C.	70				
Fatigue Life		cycles @R.C.	>1,000,000				
Direction of Loading			compression				
Deflection @ R.C.		mm (in)	0.25 typ (0.01 typ)				
Weight		kg (lb)	1.4 (3.1)				
Cable	Length	m (ft)	2 (6.6); 6 (20)				
	Diameter	mm (in)	5.8 (0.23)				
Barometric Pressure Effect on Zero Load Output		kg/kPa (lb/in.Hg)	none				
Overload Protection			No				
Mounting Screw	Grade		12.9				
	Size/thread		M6x1				
	Engaged Length	mm (in)	12 (0.5)				
	Torque	N.m (ft-lb)	10 (7.4)				
Max Platter Size		cm x cm (in x in)	50x50 (19.7x19.7)				
Off Center Load Error @33%R.C.		%A.L./cm (../in)	0.004 (0.01)				

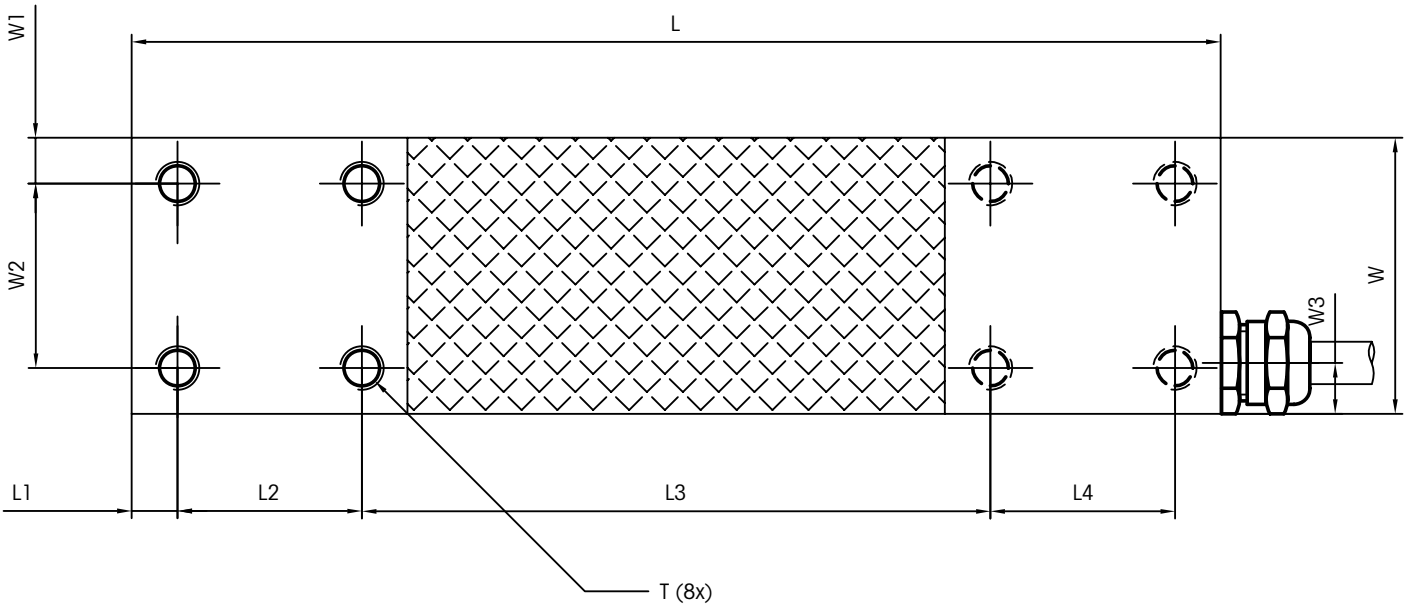
[1] Error due to the combined effect of non-linearity and hysteresis

[2] A.L. = Applied Load

[3] See certificate for complete information

SSP1241 Load Cell Dimensional Drawings mm [inch]





Model	Dimensions and locations														
	L	L1	L2	L3	L4	L5	H	H1	H2	T	W	W1	W2	W3	Deflection
SSP1241	150 [5.91]	6.3 [0.25]	25.4 [1.00]	86.6 [3.41]	25.4 [1.00]	38 [1.50]	38 [1.50]	12 [0.47]	29 [1.14]	M6	38 [1.00]	6.3 [0.2]5	25.4 [1.00]	7 [0.28]	0.25 [0.010]

SSP1241 Load Cell
Order Information

Description	Item No.
Load Cell SSP1241–30kg–2M	71207566
Load Cell SSP1241–50kg–2M	71207755
Load Cell SSP1241–100kg–2M	71207756
Load Cell SSP1241–200kg–2M	71209283
Load Cell SSP1241–300kg–2M	71207758
Load Cell SSP1241–30KG–6M	72208476
Load Cell SSP1241–50KG–6M	72208477
Load Cell SSP1241–100KG–6M	72208478
Load Cell SSP1241–200KG–6M	72208479
Load Cell SSP1241–300KG–6M	72208480

SSP1241 Load Cell
Cable Colours

Colour	Function
Green	+ Excitation
Black	– Excitation
Red	+ Signal
White	– Signal
Blue	+ Sense
Brown	– Sense
Yellow	+ Shield

Full Connectivity

METTLER TOLEDO supplies various data communication interfaces that enable our sensors and instruments to communicate with your PLC, MES, or ERP systems.

PROFIBUS · EtherNet/IP · ENCOMPASS · DeviceNet · ENABLED · ControlNet · ModConnect

OIML Approvals

The SSP1241 is provided with C3 approval acc. to OIML R60. Thus best weighing performance is guaranteed at all specified conditions. Benefit from METTLER TOLEDO experience.

ServiceXXL® Tailored Services

Worldwide Services

Our extensive service network is among the best in the world and ensures maximum availability and service life of your product.

Weighing Electronics

METTLER TOLEDO offers a complete family of electronics from simple weighing to application solutions for filling, stock control, batching, formulation, counting, and checkweighing.

ISO 9001 · ISO 14001

Quality certificate ISO 9001
Environment certificate ISO 14001

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