



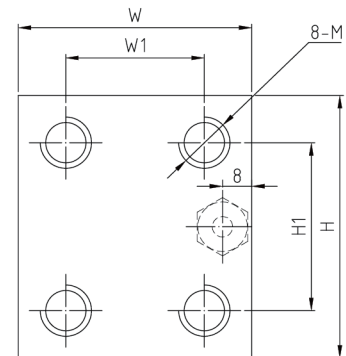
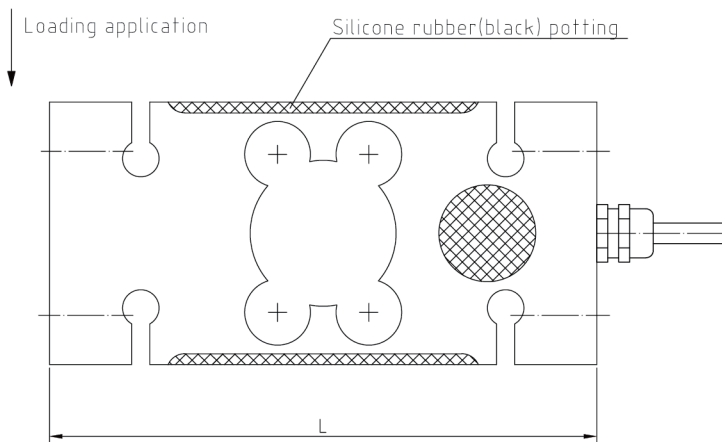
Main Features:

- Material: Alloy steel
- Rated Capacities: 150kg~2t
- Great long-term stability.
- OIML R60, NTEP HB44, CE and RoHS certified
- IP Rating: IP67
- Suitable for single load cell big platform scales against impact and other process weighing system.
- Max platform size: 1200*1200mm

Product description:

SP534A is a typical and standard alloy steel single point load cell that is with large capacity by 2t and ideal for a wide range of weighing equipment. Environmentally sealed with potting black glue compound to ensure reliability and durability. The industry standard size and mounting hole configuration makes the SP534A suitable for large-size platform by 1200*1200mm, or as a replacement for existed weighing equipment. Besides for common applications of weighing equipment, it also can be used for force measurement on controlling.

Dimensions (mm&inch):



Rated Capacity	L	W	W1	H	H1	M
kg/mm						
150-1,000	150	64	38	72	46	M14 25deep
2,000	150	72	42	80	55	M16 25deep

SP534A Single Point Load Cell Specifications

Parameter		Units	Specifications	
Model No.			SP534A	
Rated capacity (E _{max})		kg	150 / 250 / 500 / 1000	2000
Accuracy class ¹⁾²⁾			C3	C6
Min. dead load		lb / kg	0	
Rated output		mV/V	2.0 ± 0.2	
Zero balance		% of E _{max}	± 2	
Repeatability error		% of AL ³⁾	< ± 0.010	< ± 0.005
Creep; 30 minute		% of AL	< ± 0.017	< ± 0.0083
Min. dead load output return (DR); 30 min		% of AL	< ± 0.017	< ± 0.0083
Temp. effect on	Min. dead load output	% of E _{max} /°C	< ± 0.0020	< ± 0.0014
	Rated output ²⁾	% of AL/°C	< ± 0.0012	< ± 0.0006
Temperature range	Compensated	°C(°F)	-10 to +40 [+14 to +104]	
	Operating		-40 to +65 [-40 to +149]	
	Safe storage		-40 to +80 [-40 to +176]	
Excitation voltage	Recommended	V AC/DC	5 ~ 15	
	Maximum		15	
Terminal resistance	Excitation	Ω	384 ± 5	
	Output		350 ± 3	
Insulation resistance @50VDC		MΩ	> 5000	
Breakdown voltage		V AC	> 500	
Seal type / IP rating			surface potting black silicon (strain gauge with special coating) / IP67	
Load limit	Safe	% of E _{max}	150	
	Ultimate		300	
Material	Spring element		High quality alloy steel	
	Cable connector		stainless steel, electropolishing	
	Cable		Φ5.6; 4-wire; PVC	
Cable length		m	3.0	
Maximum platform size		mm	800*800	1000*1000
Offer center load error (OIML R76)		% of AL/cm	< ± 0.0016	
Weight; approx		kg	4.0	4.8
Fatigue life		cycles @E _{max}	> 1,000,000	
Deflection at E _{max} ; approx		mm	< 0.5	
Barometric pressure effect on Zero Output		Vmin/kPa	< 1.0	
Mounting screw	Size/Grade		M14 / 8.8	M16 / 8.8
	Recommended torque	N.m	98.0	196.0

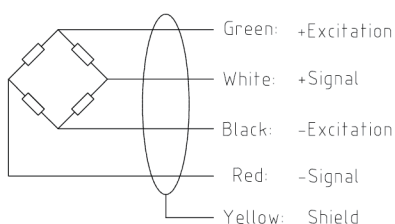
Notes:

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

²⁾ The sum of errors due to Temperature Effect on Output comply with the requirements of OIML R60 and NIST HB44

³⁾ AL = Applied Load

Cable Colour Code: (4-wire circuit)



Shield connected to load cell body

Interchangeable Products:

Manufacturer	Model
Mettler-Toledo	IL