

# Hermetic Stainless Steel Single Point Platform Size up to 500x400 mm



## Wash Down Applications

SLP845 is the right choice for the food or pharmaceutical industry where daily wash down is required. It provides best weighing performance in a hermetically sealed stainless steel load cell. Thus it is ideal for stainless steel scales or general weighing applications where the highest grade of IP protection and 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 SSH will weigh within tolerance regardless of load application point.



## Robustness

SLP845 is an extremely robust single point load cell suitable for almost all industrial environments. It allows 50% static overload without compromising the weighing performance.



## SLP845 Hermetic Single Point Load Cell

The SLP845 load cell features:

- OIML and NTEP approval
- Hazardous area approval
- Hermetically sealed IP68/IP69K
- Stainless steel
- up to 500x400 mm platform size
- 15–200kg capacity range

The SLP845 is the ideal solution for scales, packaging and process weighing where a hermetically sealed stainless steel load cell is required for harsh chemical and washdown environments. Due to the low profile the integration into any system is easy. The broad capacity range and large platform size allows wide application in industrial weighing applications.

# SLP845 Load Cell Specifications

Parameter	unit of measure	Specification					
Model No.		SLP 845					
Rated Capacity (R.C.)	kg(lb)	15 (32)	22 (48)	50 (110)	100 (220)	200 (440)	
Rated Output	mV/V @R.C.	2±10%					
Zero load Output	%R.C.	≤ 1.0					
Combined Error <sup>1) 2)</sup>	%R.C.	≤ 0.02					
Repeatability Error	%A.L. <sup>3)</sup>	≤ 0.01					
Creep, 30 minute	%A.L.	≤ 0.0167					
Min. Dead Load Output Return (DR), 30 min	%A.L.	≤ 0.0167					
Temperature Effect on	Min. Dead load Output	≤ 0.000875					
	Sensitivity (2)	≤ 0.0009					
Temperature Range	Compensated	-10 ~ +40(+14 ~ +104)					
	Operating	-20 ~ +65 (-4 ~ +140)					
	Safe Storage	-20 ~ +80 (-4 ~ +176)					
OIML / European Approval <sup>4)</sup>	OIML Cert. No.	tbd					
	European Cert. No.	tbd					
	Class	C					
	nmax	3000					
	vmin	g	1/2	2/5	5/10	10/20	20/50
	PLC	0.7					
	Humidity Symbol	none					
	Min. dead load	kg	0				
NTEP Approval <sup>4)</sup>	Z	3000					
	Number	tbd					
	Class	III					
	nmax	5000					
	Vmin	lb	0.002/0.005	0.005/0.01	0.01/0.02	0.02/0.05	0.05/0.1
	Min. dead load	lb	0				
ATEX Approval <sup>4)</sup>	Number, cat. 2	tbd					
	Number, cat. 3	tbd					
	Rating	II 2G Ex ib IIC T4 Gb; II 2D Ex ib IIIC T100 Db II 3G Ex ic IIC T4 Gc; II 3G Ex nA II T4 Gc; II 3D Ex tD IIIC T100 Dc Ta: -40°C to +50°C					
	Entity Parameters	Ui=20V, Ii=600mA, Pi=1.25W, Ci=5nF, Li=30µH					
Factory Mutual Approval <sup>4)</sup>	Number, USA	tbd					
	Rating	IS / I, II, III / 1 / ABCDEFG / T4 Ta = 50°C Entity NI / 1 / 2 / ABCD / T4 Ta = 50°C S / II / 2 / FG / T4 Ta = 50°C S / III / 2 / T4 Ta = 50°C					
	Entity Parameters	Vmax=20V, Imax=600mA, Pi=1.25W, Ci=5nF, Li=30µH					
	System Drawing No, USA	tbd					
Excitation Voltage	Recommended	5~15					
	Max.	20					
Terminal Resistance	Excitation	1116±20					
	Output	1000±3					
Insulation Resistance @50VDC	MΩ	>5000					
Breakdown Voltage	V AC	>500					
Material	Spring Element	stainless steel 17-4PH					
	Enclosure	stainless steel 300 series					
	Cable entry fitting	stainless steel 300 series					
	Cable	PVC					
Protection	Type	sealed					
	IP Rating	IP68/IP69K					
	NEMA Rating	NEMA 6					
Load Limit	Safe	150%					
	Ultimate	200%					
Safe Dynamic Load	%R.C.	100					
Fatigue Life	cycles @R.C.	1'000'000					
Direction of Loading		beam					
Deflection @ R.C., nominal	mm (in)	0.18 (0.00315)	0.15 (0.00591)	0.18 (0.00315)	0.18 (0.00315)	0.22 (0.00866)	
Weight, nominal	kg (lb)	1.3 (3)					
Cable	Length	3 (10)					
	Diameter	6.2 (0.25)					
Overload Protection		none					
Mounting Screw	Grade	A4-70					
	Size/thread	M6/1					
	Engaged Length	10					
	Torque, nominal	10 Nm					
Max Platter Size	cm x cm (in x in)	30x30 (1.18x1.18)			40x50 (1.57x1.96)		

<sup>1)</sup> Error due to the combined effect of non-linearity and hysteresis

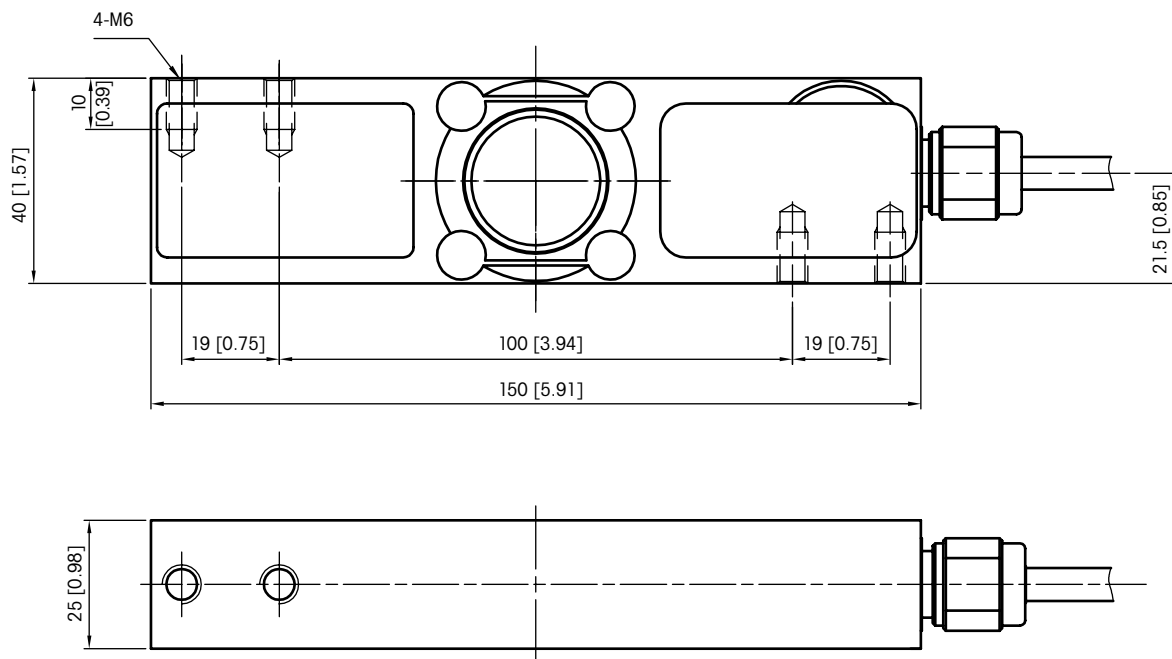
<sup>2)</sup> Typical values only. The sum of errors due to Combined Error and Temperature Effect on Sensitivity comply with the requirements of OIML R60 and NIST HB44.

<sup>3)</sup> A.L. = Applied Load

<sup>4)</sup> See certificate for complete information.



# SLP845 15–200 kg Load Cell Dimensional Drawings mm [inch]



## SLP845 Load Cell Order Information

Description	Item No.
<b>Load Cell SLP845-15KG 3M C3/III S n:5 vmin 1g/0.002lb</b>	<b>72244433</b>
<b>Load Cell SLP845-15KG 3M C3/III S n:5 vmin 2g/0.005lb</b>	<b>72244437</b>
<b>Load Cell SLP845-22KG 3M C3/III S n:5 vmin 2g/0.005lb</b>	<b>72244429</b>
<b>Load Cell SLP845-22KG 3M C3/III S n:5 vmin 5g/0.01lb</b>	<b>72244431</b>
<b>Load Cell SLP845-50KG 3M C3/III S n:5 vmin 5g/0.01lb</b>	<b>72244426</b>
<b>Load Cell SLP845-50KG 3M C3/III S n:5 vmin 10g/0.02lb</b>	<b>72244428</b>
<b>Load Cell SLP845-100KG 3M C3/III S n:5 vmin 10g/0.02lb</b>	<b>72244423</b>
<b>Load Cell SLP845-100KG 3M C3/III S n:5 vmin 20g/0.05lb</b>	<b>72244425</b>
<b>Load Cell SLP845-200KG 3M C3/III S n:5 vmin 20g/0.05lb</b>	<b>72244420</b>
<b>Load Cell SLP845-200KG 3M C3/III S n:5 vmin 50g/0.1lb</b>	<b>72244422</b>

**Bolded entries are stocked**

## SLP845 Load Cell Cable Colours

Colour	Function
Green	+ Excitation
Black	- Excitation
White	+ Signal
Red	- Signal
Yellow	+ Sense
Blue	- Sense
Yellow (Long)	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.



## METTLER TOLEDO Service

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.



Quality certificate ISO 9001  
Environment certificate ISO 14001

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