

Globally Approved for Accuracy and Safety



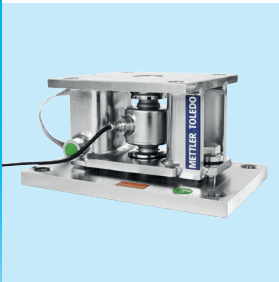
Tank Weighing

The SLC611 load cell with capacity range from 7.5t to 22.5t, allows the weighing of mid size tanks, hoppers and silos with ease. The stainless steel design, hermetic sealing and IP68 / IP69K protection provides the best reliability in tank weighing applications.



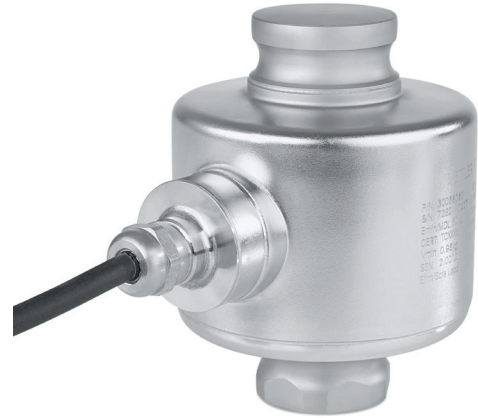
Hermetically Sealed

The weigh module SWC515 PinMount™ adds suspension, checking and anti-tipping to your SLC611 load cell and includes top and bottom mounting plates to simplify installation. Available in zinc plated mild steel or stainless steel.



SWC515 PinMount™

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SLC611 Load Cell

Every SLC611 load cell features:

- OIML 3000e, NTEP III M 5000d approvals
- ATEX Zone 0/1/2 and 20/21/22
- FM Class I,II,III Div 1/2 approved
- Stainless steel
- Hermetically sealed design
- IP68, IP69K protection class

The SLC611 is approved for use in various applications in Europe, Asia, America and almost everywhere else in the world. If an approval is required, the SLC611 probably already complies.

SLC611 Load Cell Specifications

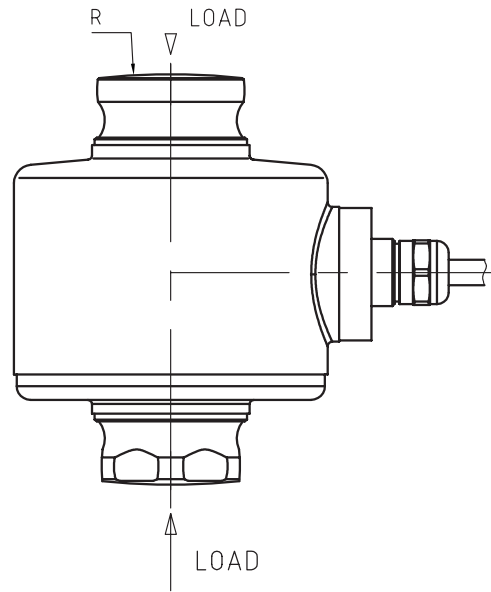
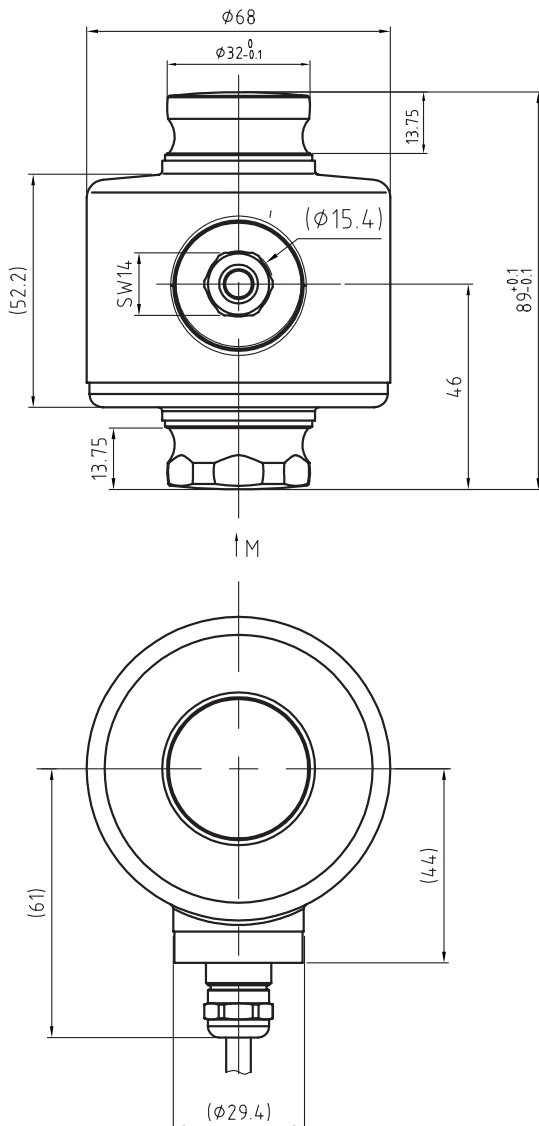
Parameter		unit of measure	Specifications		
Model No.			SLC611		
Rated Capacity (R.C.)		† (klb nominal)	7.5 (16.5)	15 (33)	22.5 (49.6)
Rated Output		mV/V @ R.C.	2 ± 0.1%		
Zero load Output		%R.C.	≤ 1		
Combined Error ^{1), 2)}		%R.C.	≤ 0.018		
Repeatability Error		%A.L. ³⁾	≤ 0.01		
Creep, 30 minute		%A.L.	≤ 0.017		
Min. Dead Load Output Return (DR), 30 min		%A.L.	≤ 0.017		
Temperature Effect on	Min. Dead Load Output	%R.C./°C (.../°F)	≤ 0.0018 (0.0010)		
	Sensitivity ²⁾	%A.L./°C (.../°F)	≤ 0.001 (0.0006)		
Temperature Range	Compensated	°C (°F)	-10 ~ +40 (-14 ~ +104)		
	Operating		-40 ~ +65 (-40 ~ +149)		
	Safe Storage		-40 ~ +80 (-40 ~ +176)		
OIML/European Approval ⁴⁾	OIML Cert. No.		R60/2000-CN1-14.10		
	European Cert. No.		TC8669		
	Class		C3		
	nmax		3000		
	Y		7800		
	PLC		0.7		
	Humidity Symbol		CH		
	Min. dead load	kg (lb)	0 (0)		
	Z		3000		
Barometric Pressure Effect	Vmin/kPa		< 1		
NTEP Approval ⁴⁾	Number		15-011		
	Class		III M		
	nmax		5000		
	Vmin	kg (lb)	0.96 (2.12)	1.92 (4.24)	2.88 (6.36)
	Min. dead load	kg (lb)	0 (0)		
ATEX Approval ⁴⁾	Number		DEKRA 15ATEX0015 X		
	Rating		II 1 G Ex ia IIC T6...T4 Gc / II 1 D Ex ia IIIC T100°C Da		
			II 3 G Ex nA IIC T6...T4 Gc / II 3 G Ex ic IIC T6...T4 Gc / II 3 D Ex tc IIIC T100°C Dc		
Entity Parameters		Ui = 25V, Ii = 600mA, Ci = 6nF, Li = 30µH, Pi = 1.25W (T4), 0.86W (T5), 0.51W (T6)			
Factory Mutual Approval ⁴⁾	Number, USA		3013511		
	Number, Canada		3028342C		
	Rating, USA		IS / I, II, III / 1 / ABCDEFG / T5		
			NI / I, II, III, / 2 / ABCDFG / T6		
	Rating, Canada	cFM	IS/I, II, III / 1 / ABCDEFG / T5 TA= -40°C to +55°C; NI / 1 / 2 / ABCD / T6 Ta = -40°C to +55°C, DIP /II,III/2/FG		
		CAS	Comply		
	Entity Parameters		Vmax = 25V, Imax = 600mA, Pi = 1.25W, Ci = 4nF ⁴⁾ , Li = 20µH ⁴⁾		
Sys. Drawing No, USA		30105817			
Sys. Drawing No, Canada		30105818			
Excitation Voltage	Recommended	V AC/DC	5 ~ 15		
	Max.		20		
Terminal Resistance	Excitation	Ω	1150 ± 50		
	Output		1000 ± 2		
Insulation Resistance @50VDC	MΩ		> 5000		
Breakdown Voltage		V AC	> 500		
Material	Spring Element		stainless steel		
	Enclosure		304 stainless steel		
	Cable entry fitting		304 stainless steel		
	Cable		Polyurethane (PU) & FEP		

Parameter		unit of measure		Specifications	
Protection	Type			welded	
	IP Rating			IP68, IP69K	
	NEMA Rating			NEMA 6/6P	
Load Limit	Safe	%R.C.		200	
	Ultimate			300	
Safe Dynamic Load		%R.C.		70	
Fatigue Life		cycles @R.C.		1000000	
Direction of Loading				compression	
Restoring Force ⁵⁾		%A.L./mm (..in) ³⁾		2.4 (61)	3.4 (87)
Max Horizontal Travel ⁶⁾		± mm (in)		8 (0.31)	7 (0.27) 5 (0.2)
Deflection @ R.C., nominal		mm (in)		0.20 (0.008)	0.37 (0.015) 0.49 (0.019)
Weight, nominal		kg (lb)		1 (2.2)	
Cable	Length	m (ft)		12, 20 (39.4, 65.6)	
	Diameter	mm (in)		5.2 (0.20)	
Drawing No.	Dimensions			30220610	
	To-Scale			30220594	

- 1) Error due to the combined effect of non-linearity and hysteresis
2) 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.
3) A.L. = Applied Load
4) See certificate for complete information
5) % of Applied Load (A.L.) per mm (in) displacement of the top button relative to the bottom button
6) Maximum horizontal displacement of the top button relative to the bottom button



SLC611 Load Cell Dimensions mm



Capacity	R	Max horiz. travel
7.5t	140	8
15t		7
22.5t	180	5

SLC611 Load Cell Order Information

Order Information		Item No.			
		Cable, Material / Length			
Class		PU / 12 m (39.4ft)	PU / 20 m (65.6ft)	FEP / 12 m (39.4ft)	FEP / 20 m (65.6ft)
7.5 t / 16.5 klb	C3/III M n:5	30058060	30058064	30105781	30105786
15 t / 33 klb	C3/III M n:5	30058061	30058065	30105783	30105788
22.5 t / 49.6 klb	C3/III M n:5	30058062	30058066	30105784	30105789

Bolded entries are stocked

SLC611 Load Cell Cable Colors

Colour	Function
Green	+ Excitation
Black	- Excitation
White	+ Signal
Red	- Signal
Yellow	Shield

Global Approvals

The SLC611 is provided with all listed approvals. No need to think about options and additional charges. Simplifies the conduct of global business, order processing and service-part stocking.



Full Connectivity

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



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.



METTLER TOLEDO Service

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



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