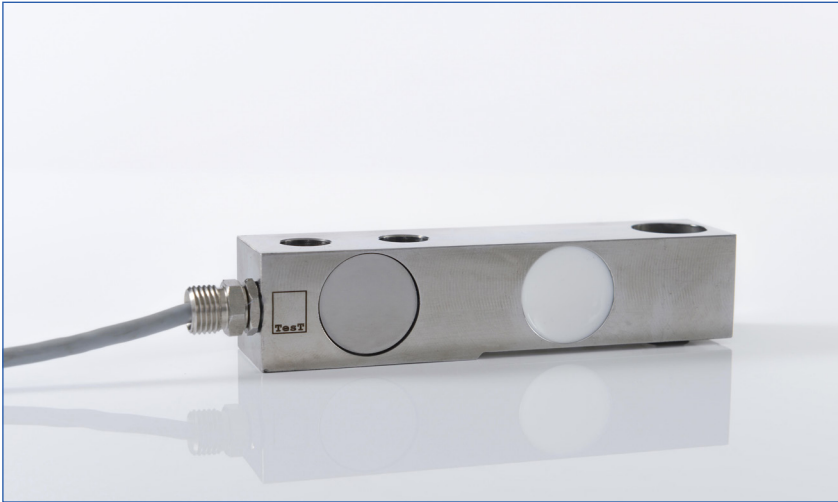


## Electrical Load Cells – Model 611



- Capacities: 250kg to 5t
- Shear beam load cell
- Calibratable acc. to OIML R 60
- Standard or class C3
- Resistant to lateral forces
- Stainless steel
- Highest accuracy
- Sensitivity: 2mV/V
- Optional: TEDS module <sup>1)</sup>

The shear beam load cells of the model series 611 are typically used for the construction of industrial weighing or batching systems, e.g. for container or tanks. The load

cells that are made of stainless steel are excellently suitable for applications under rough, industrial conditions. A TEDS module inside the plug can be provided on de-

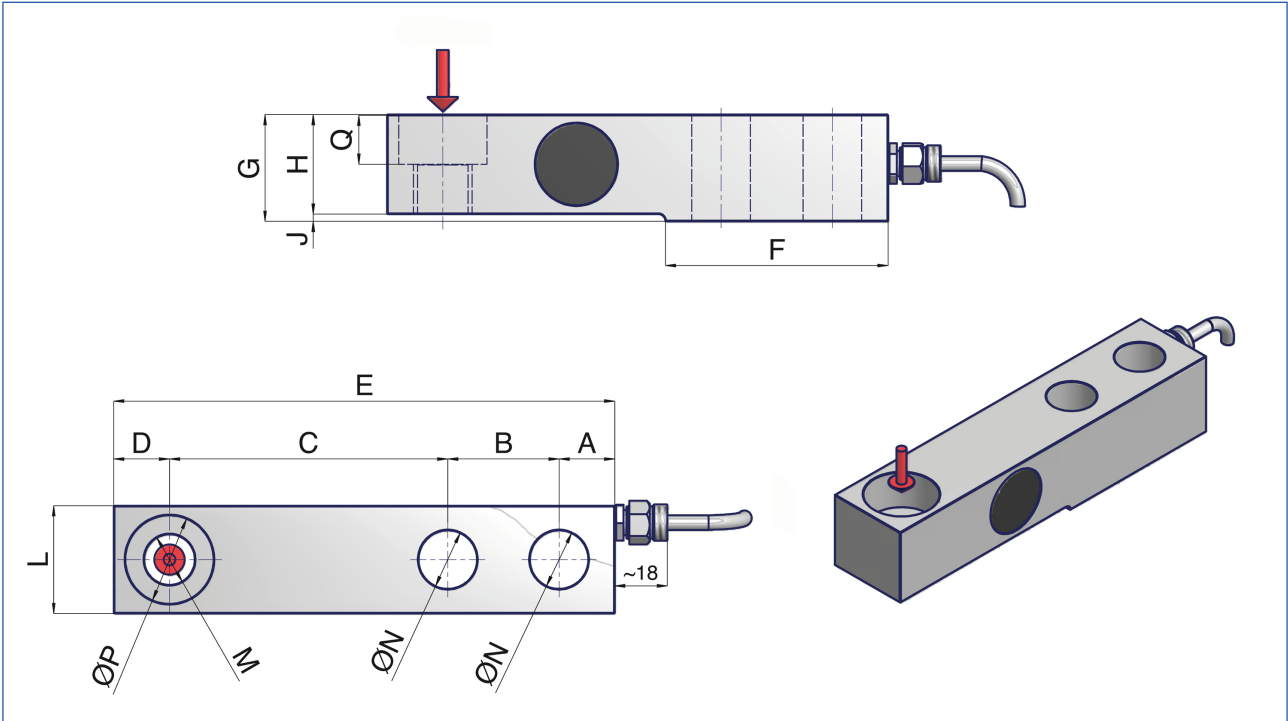
mand. The model 611 is available in the standard version and in the calibratable version according to OIML R 60, class C3.

Model 611				
>> Technical data according to OIML R 60	Symbol	Unit	Standard	C3
Number of scale intervals	N <sub>LC</sub>	d	-	3000
Minimum scale division	V <sub>min</sub>	%	-	10.000
Zero signal when removed	S <sub>0</sub>	mV/V	0,02	
Nominal rated sensitivity	C <sub>n</sub>	mV/V	2	
Sensitivity tolerance	T <sub>n</sub>	% (≤ ±)	0,1	
Combined error	F <sub>comb</sub>	% (≤ ±)	0,03	0,022
Non linearity	d <sub>lin</sub>	% (≤ ±)	0,021	0,0154
Nominal temperature range	B <sub>T, nom</sub>	°C	-10...+40	
Operating temperature range	B <sub>T, G</sub>	°C	-15...+60	
Storage temperature range	B <sub>T, S</sub>	°C	-20...+70	
Creep after 30 min	K <sub>α,5</sub>	% (≤ ±)	0,03	0,024
Temperature coefficient of sensitivity per 10K	TK <sub>C</sub>	% (≤ ±)	0,005	0,0026
Temperature coefficient of zero signal per 10K	TK <sub>0</sub>	% (≤ ±)	0,02	0,018
Input resistance	R <sub>e</sub>	Ω	400 ± 25	
Output resistance	R <sub>a</sub>	Ω	350 ± 2	
Insulation resistance	R <sub>is</sub>	GΩ	> 5	
Maximum excitation voltage	U <sub>max</sub>	V	15	
Reference excitation voltage	U <sub>ref</sub>	V	10	
Nominal range of excitation voltage	B <sub>U, nom</sub>	V	5...15	
Limit load	E <sub>L</sub>	%	≤ 150	
Breaking load	E <sub>d</sub>	%	≥ 300	
Max. permissible side load	L <sub>S</sub>	%	100	
Degree of protection according to DIN 60529				IP65

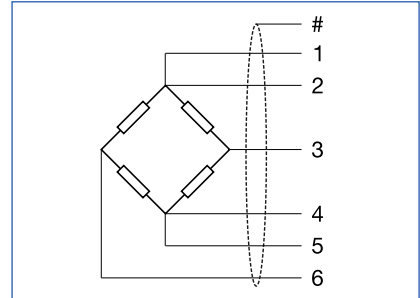
<sup>1)</sup> TEDS = Transducer Electronic Data Sheet acc. to IEEE 1451.4

For class C3: Only stated if differing from standard specification

# Electrical Load Cells – Model 611



Dimensions in mm			
Model 611			
Capacities	250kg	2000kg	5000kg
	500kg	2500kg	
	1000kg		
	1500kg		
A	14,90	19,05	19,05
B	26,40	38,1	38,1
C	76,20	95,25	95,25
D	12,70	19,1	19,1
E	130,20	171,5	171,5
F	57,15	76,2	76,2
G	30,15	36,5	42,9
H	28,45	34	40,4
J	1,70	2,5	2,5
L	30,70	36,8	42,9
M	M12 x1,7	M20 x2,5	M20 x2,5
N	13	20	20
P	20,50	30,2	30,2
Q	14,70	17	20,2
Available versions	Standard	Standard	Standard
	C3	C3	C3



Connection Drawing		
1	white	Sense +
2	red	Excitation +
3	yellow	Output +
4	blue	Excitation -
5	black	Sense -
6	green	Output -
#		Shield

**Advice for load in tensile direction:**  
 For load application please pay attention to an installation that is free of lateral forces, if necessary use rotating intermediate parts or joint heads with shackles. For safety reasons you should use arresting cables, straps or chains when other mechanical protection is not existing.