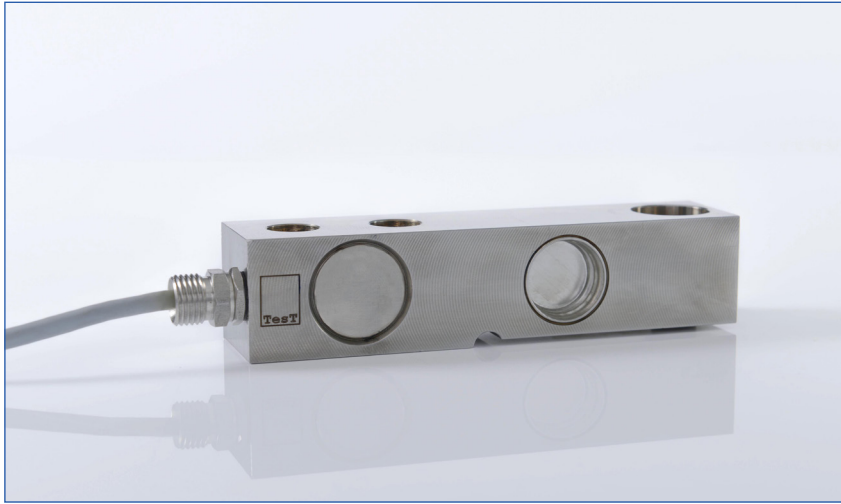


Electrical Load Cells – Model 612



- Capacities: 500kg to 15t
- Shear beam load cell
- Calibratable acc. to OIML R60
- Standard, class C3 or C4
- Resistant to lateral forces
- Stainless steel
- Highest accuracy
- Sensitivity: 2mV/V
- TEDS module on demand ¹⁾

The shear beam load cells of the model series 612 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 is also possible on

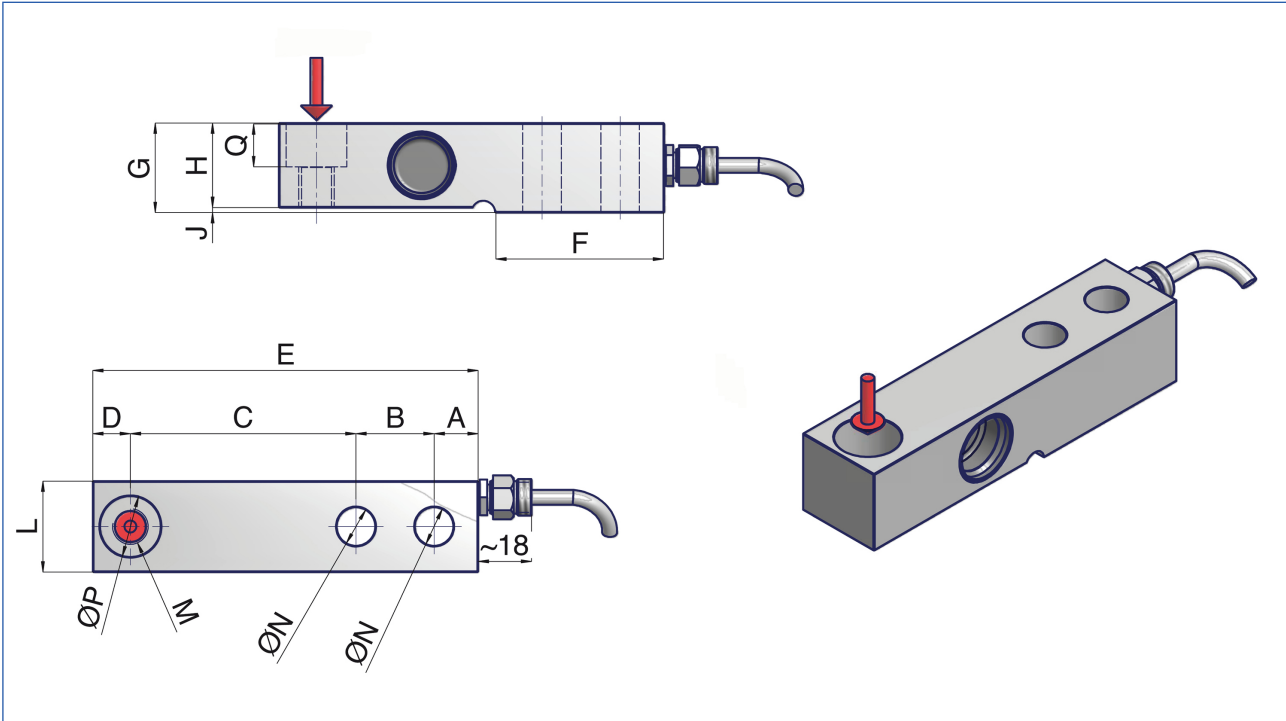
demand. The model 612 is available in the standard version and in the calibratable versions according to OIML R 60, accuracy classes C3 and C4.

Model 612					
>> Technical data according to OIML R 60	Symbol	Unit	Standard	C3	C4
Number of scale intervals	N _{LC}	d	-	3.000	2
Minimum scale division	V _{min}	%	-	12.000	16.000
Zero signal when removed	S ₀	mV/V		0,02	
Nominal rated sensitivity	C _n	mV/V		2	
Sensitivity tolerance	T _n	% (≤ ±)		0,1	
Combined error	F _{comb}	% (≤ ±)	0,025	0,022	0,018
Non linearity	d _{lin}	% (≤ ±)	0,0175	0,0154	0,0126
Nominal temperature range	B _{T, nom}	°C		-10...+40	
Operating temperature range	B _{T, G}	°C		-15...+60	
Storage temperature range	B _{T, S}	°C		-20...+70	
Creep after 30 min	K _{0,5}	% (≤ ±)		0,025	
Temperature coefficient of sensitivity per 10K	TK _C	% (≤ ±)	0,008	0,003	0,0025
Temperature coefficient of zero signal per 10K	TK ₀	% (≤ ±)	0,02	0,018	0,01
Input resistance	R _e	Ω		400 ± 25	
Output resistance	R _a	Ω		350 ± 2	
Insulation resistance	R _{is}	GΩ		> 5	
Maximum excitation voltage	U _{max}	V		15	
Reference excitation voltage	U _{ref}	V		10	
Nominal range of excitation voltage	B _{U, nom}	V		5...10	
Limit load	E _L	%		≤ 150	
Breaking load	E _d	%		≥ 300	
Max. permissible side load	L _S	%		100	
Degree of protection according to DIN 60529				IP68	

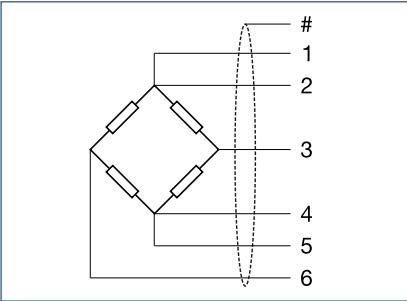
¹⁾ TEDS = Transducer Electronic Data Sheet acc. to IEEE 1451.4

Centered data is valid for all three device classes

Electrical Load Cells – Model 612



Dimensions in mm					
Model 612					
Capacities	500kg	2.000kg	5.000kg	7.500kg	15.000kg
	750kg	2.500kg		10.000kg	
	1.000kg				
	1.500kg				
A	14,90	19,05	19,05	25,40	31,70
B	26,40	38,10	38,10	82,60	88,90
C	76,20	95,25	95,25	139,70	158,80
D	12,70	19,10	19,10	31,70	38,10
E	130,20	171,50	171,50	279,40	317,50
F	57,15	76,20	76,20	144,70	158,80
G	30,15	36,50	42,90	65,00	73,00
H	28,45	34,00	40,40	61,00	68,00
J	1,70	2,50	2,50	4,00	5,00
L	30,70	36,80	42,90	58,00	69,00
M	M12 x1,75	M20 x2,5	M20 x2,5	31,80	38,10
N	13,00	20,00	20,00	27,00	33,30
P	20,50	30,20	30,20	51,10	58,40
Q	14,70	17,00	20,20	20,70	25,40
Available versions	Standard	Standard	Standard	Standard	Standard
	C3/C4	C3/C4	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.