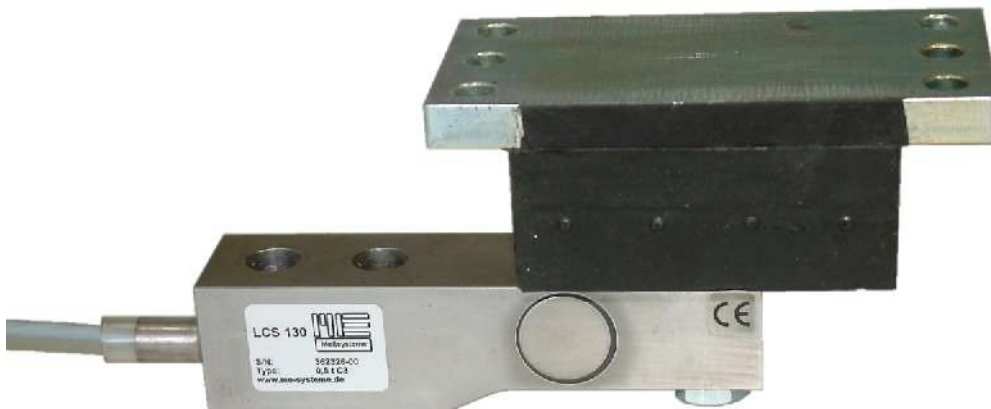


Load cell LCS130

Nominal load ranges (compression) 250kg, 500kg, 1000kg, 2000kg



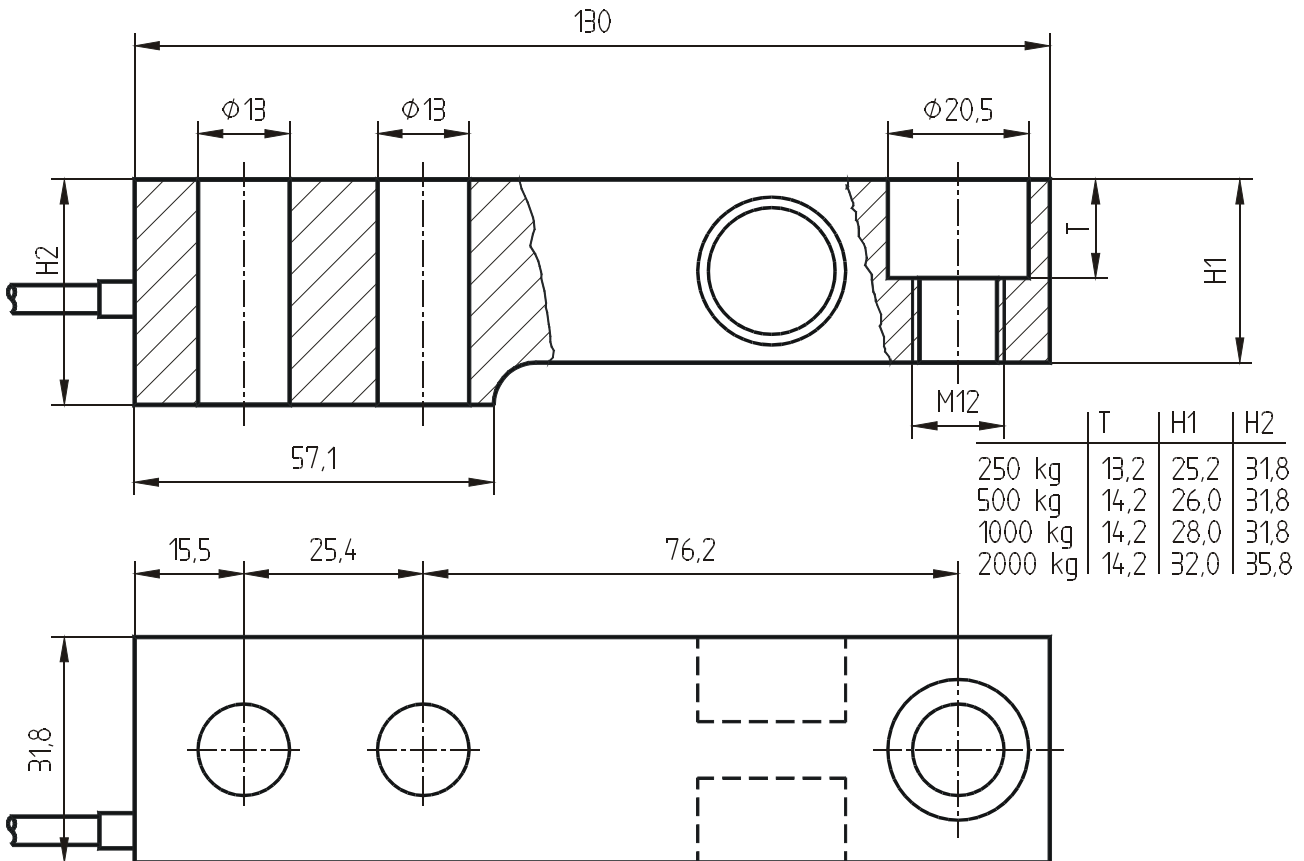
Description

The load cell LCS 130 is used in platform-type weighing scales. Three to four load cells support a platform of any size. The output current calibration allows parallel connection of the load cells for operation at a common measuring amplifier without additional equalization.

The platform is placed on the weighing scales using three or four height-adjustable elastomer bearings (EL 120), in order to avoid twisting.

The load cell LCS 130 conforms to the stringent European requirements for use in calibration-obligatory weighing scales. The method of protection is IP 67.

Dimensions



Load cell LCS130

Nominal load ranges (compression) 250kg, 500kg, 1000kg, 2000kg

Technical Data

Load cell	Compression				
Construction	Shearing beam				
Material	Stainless steel 1.4542				
Accuracy classes	CC (0.05), C1 (0.03%), C3 (0.02%)				
Nominal loads (F _N)	250kg ... 2000kg (250kg and 500kg only CC and C3)				
Accuracy class accord. to OIML R60	CC	C3	C4	C5	
Maximum scale division value		3000	4000	5000	
Minimum scale division value		F _N / 6000	F _N / 8000	F _N / 10000	
Combined error	< ±0.050	< ±0.023	< ±0.018	< ±0.014	% S _N
Zero point return error (30 min)	< ±0.050	< ±0.017	< ±0.013	< ±0.010	% S _N
Creep error (30 min)	< ±0.060	< ±0.025	< ±0.018	< ±0.015	% S _N
Temperature coeff. of the zero signal	< ±0.025	< ±0.012	< ±0.009	< ±0.007	% F _N / 5°C
Temp. coeff. of the nominal output	< ±0.025	< ±0.0088	< ±0.007	< ±0.006	% S _N / 5°C
Operating load	150				% F _N
Breaking load	300				% F _N
Maximum lateral load	100				% F _N
Nominal temperature range	-10...+40				°C
Operating temperature range	-40...+80				°C
Storage temperature range	-40...+90				°C
Nominal output (S _N)	2.00 ± 0.02				mV/V
Zero signal tolerance	±2				% F _N
Max. supply voltage	15				V
Input resistance	1000 ± 50				Ohm
Output resistance	1000 ± 10				Ohm
Insulation resistance	> 5 · 10 ⁹				Ohm
Connection, 4 conductor open	3m up to 1t, 6m from 2t				

Pin configuration

+Us	positive bridge supply	green	
-Us	negative bridge supply	black	shield: transparent
+U _D	positive bridge output	white	
-U _D	negative bridge output	red	
+Us	positive sense	yellow	
-Us	negative sense	white	

Elastomer bearing EL 120

The elastomer bearing is the connecting element between the load cells and the weighing table or tank, silo, trough etc.

The elastomer bearing is adjustable in height, so that it is possible to achieve a uniform distribution of the load even with four load cells on an uneven foundation.

The elastomer bearing is robust and absorbs load impacts e.g. when used with vibrators. For the installation of the load cell on a flat surface spacers 57mm x 31.8mm x 5mm with two holes of $\phi 13$ mm are available.

Dimensions

