

Data sheet for Load Cells

Button Load Cell (Pancake)

Series KMC130



- Measuring range 0...300 kN
- Force transmission via through hole with groove
- 2 housing sizes
- Strain gauge
- Steel alloy
- Degree of protection IP66
- Calibration including measurement data
- Test protocol available

Series KMC130 force transducer is a all-purpose load cell (pancake). The sensor is often used in presses, testing machines, truck scales and large container and hopper scales.

Data load cell				
Rated force	50kN	100kN	200kN	300kN
Rated characteristic value	3,0 mV / V of rated output			
Relative error of characteristic value	≤ 0,25 % of rated output			
Relative repeatability error	≤ 0,03 % of rated output			
Relative reversibility error	≤ 0,03 % of rated output			
Relative linearity error	≤ 0,05 % of rated output			
Reference straight line	≤ 0,05 % of rated output			
Relative deviation of zero signal	≤ 1 % of rated output			
Rated displacement	≤ 0,5 mm			
Input resistance	385 ±5Ω			
Output resistance	350 ±3Ω			
Insulation resistance	≥ 5 GΩ @ 50 V DC			
Maximum operating force	≤ 150 % of rated force			
Rated range of excitation voltage	10 V DC / AC			
Operating range of excitation voltage	≤ 15 V DC / AC			
Rated temperature range	-20 °C .. +60 °C			
Operating temperature range	-10 °C .. +40 °C			
Protection	IP66			
Temperature effect on characteristic value	≤ 0,015 % of rated output / 10 K			
Temperature effect on zero signal	≤ 0,026 % of rated output / 10 K			
Creep under load	≤ 0,03 % of rated output			
Cable dimension	4 x AWG24, PTFE isolated, shielded			
Cable length from body	ca. 3 m			
Body material	Alloy steel			
Mass	4.7 kg	4.8 kg	5.2 kg	5.3 kg

1.) Terms and definitions acc. directive VDI/VDE/DKD 2638

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Order code

Description	Selection: standard=black/bold , possible options=grey/italic			
Series:	KMC130			
Connecting cable: Cable length 3 m		K		
Rated force: 50 kN 100 kN 200 kN 300 kN			50kN 100kN 200kN 300kN	
Test protocol				P

Accessories (not included in delivery)

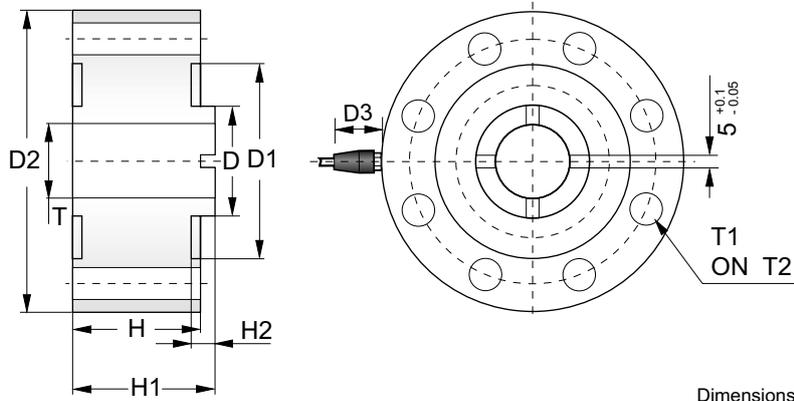
Measuring amplifier	IMA2DMS
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Drawing



Dimensions in mm

Terminal assignment	
Black	- Supply
Red	+ Supply
Green	+ Output
White	- Output

Capacities		D	D1	D2	D3	H	H1	H2	T	T1	T2
50kN~100kN	mm	Ø48	Ø84	Ø130	32	55	61	4	Ø32	8×Ø14	8×Ø105
	inch	Ø1.89	Ø3.31	Ø5.12	1.26	2.17	2.4	0.16	Ø1.26	8×Ø0.43	8×Ø4.13
200kN~300kN	mm	Ø72	Ø130	Ø182	32	80	86	4	Ø39	8×Ø15	8×Ø154
	inch	Ø2.83	Ø5.12	Ø7.17	1.26	3.15	3.39	0.16	Ø1.54	8×Ø0.59	8×Ø6.06