

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

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	

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

Button Load Cell (Pancake)
Series KMC130
Order code
Description

Selection: standard=black/bold, possible options=grey/cursive

Series:	KMC130		
Connecting cable: Cable length 3 m		K	
Rated force:			
50 kN			50kN
100 kN			100kN
200 kN			200kN
300 kN			300kN

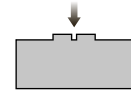
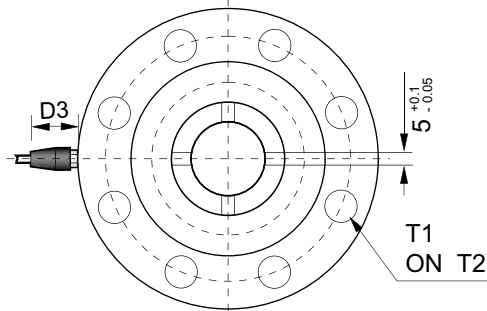
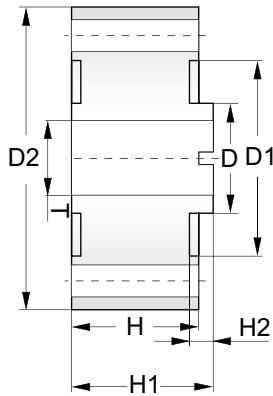
Accessories (not included in delivery)

Measuring amplifier	IMA2DMS
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Drawing



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

Dimensions in mm

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