

Data sheet for Load Cells

Button Load Cell (Pancake)

Series KMC230



- Measuring range 0...500 kN (approx. 50 t)
- Force transmission, compression, via metric thread
- Low overall height of 60 mm
- High stability
- Full bridge strain gauge
- IP66 protection
- Test report included

Series KMC230 force transducer is a all-purpose load cell (pancake) suitable for high forces. The sensor is often used in presses, testing machines, truck scales and large container and hopper scales.

Data load cell

Rated force ($F_{nom.}$)	500kN
Rated characteristic value (output @ $F_{nom.}$)	3,0 mV / V $\pm 0,25$ %
Rated range of excitation voltage	10 V DC / AC
Operating range of excitation voltage	≤ 15 V DC / AC
Relative linearity error	$\leq 0,1$ % $F_{nom.}$
Hysteresis	$\leq 0,1$ % $F_{nom.}$
Relative repeatability error	$\leq 0,1$ % $F_{nom.}$
Relative deviation of zero signal	≤ 1 % F_{nom}
Input resistance	775 $\pm 20\Omega$
Output resistance	700 $\pm 5\Omega$
Insulation resistance	≥ 5 G Ω @ 50 V DC
Maximum operating force	≤ 150 % $F_{nom.}$
Operating temperature range	-10 °C .. +70 °C
Rated temperature range	-10 °C .. +40 °C
Protection	IP66
Temperature effect on characteristic value	$\leq 0,02$ % F_{nom} / 10 K
Temperature effect on zero signal	$\leq 0,02$ % F_{nom} / 10 K
Creep under load (after 30 minutes)	$\leq 0,1$ % $F_{nom.}$
Cable dimension	4 x AWG24, shielded
Cable length	ca. 6 m
Body material	Alloy steel nickel-plated
Mass	ca. 14.95 kg

Order code	
Description	Selection: standard=black/bold , possible <i>options=grey/italic</i>
Series:	KMC230
Connecting cable: Cable length 6 m	K
Rated force: 500 kN	500kN

Accessories (not included in delivery)

Measuring amplifier	IMA2DMS
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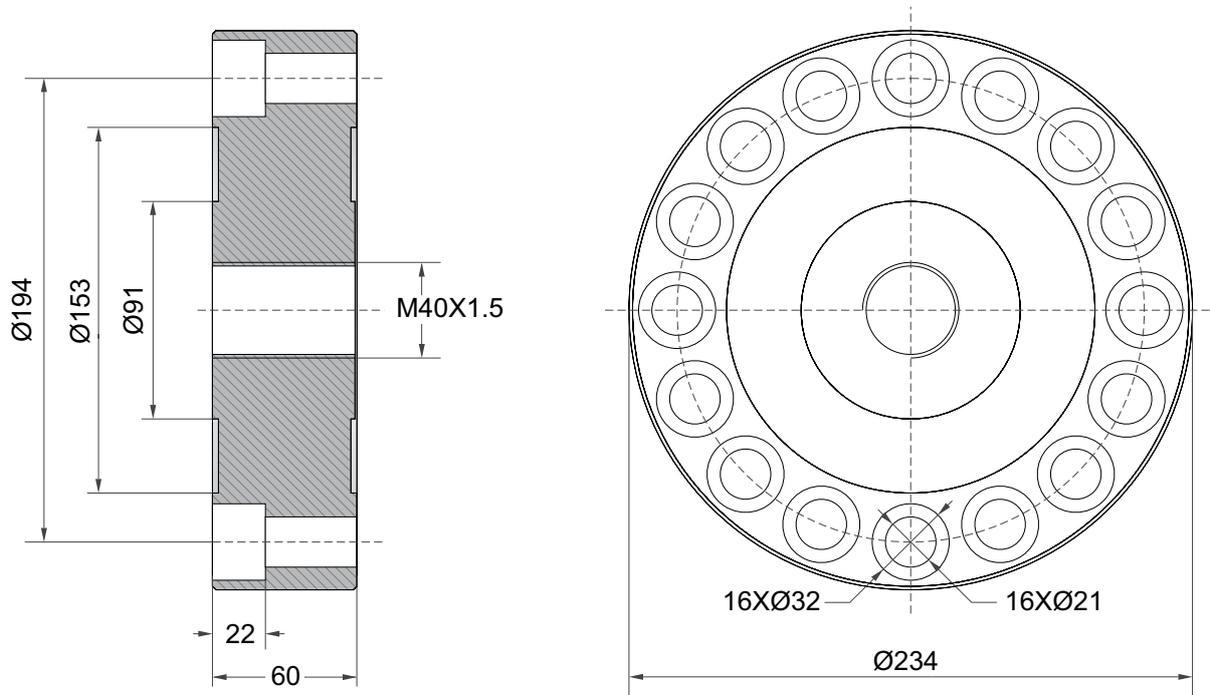
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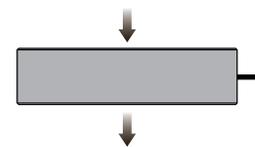
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Drawing



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



Dimensions in mm