

Data sheet for Load Cells

Button Load Cells

Series KMB38



- Measuring range of 0..20 kN and 0..40 kN
- Strain gauge
- Stainless steel body
- Degree of protection IP64
- Calibration including measurement data

Series KMB38 force transducer is a small size all-purpose compression load cell.

Data load cell

Rated force	20 kN	40 kN
Rated characteristic value	2,0 mV / V of rated output	
Relative error of characteristic value	≤ 15% of rated output	
Relative repeatability error	≤ 0,05% of rated output	
Relative reversibility error	≤ 0,5% of rated output	
Relative linearity error	≤ 0,5% of rated output	
Reference straight line	≤ 0,5% of rated output	
Relative deviation of zero signal	≤ 0,1% of rated output	
Input resistance	700 ± 10 Ω	
Output resistance	700 ± 10 Ω	
Insulation resistance	≥ 500 MΩ @ 50 V DC	
Maximum operating force	≤ 150% of rated force	
Rated range of excitation voltage	10 VDC / AC	
Operating range of excitation voltage	≤ 20 VDC / AC	
Rated temperature range	-50°C .. +90°C	
Operating temperature range	0°C .. +70°C	
Protection	IP64	
Temperature effect on characteristic value	≤ 0,36% of rated output / 10 K	
Temperature effect on zero signal	≤ 0,18% of rated output / 10 K	
Creep under load	≤ 0,5% of rated output	
Cable dimension	4 x AWG26, cable shielded	
Cable length from body	ca. 3 m	
Body material	Stainless steel (17-4 PH)	
Mass	ca. 90 g	

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

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Order code

Description	Selection: standard=black/bold, possible options=grey/cursive		
Series:	KMB38		
Connecting cable: Cable length 3 m		K	
Rated force: 20 kN 40 kN			20KN 40KN

Accessories (not included in delivery)

Measuring amplifier	IMA2 DMS
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Drawing

