

Data sheet for Load Cells

Button Load Cells

Series KMB32



- Measuring range 0...400 N, 0...2 kN, 0...8 kN
- Strain gauge
- Stainless steel
- Degree of protection IP64
- Calibration including measurement data

Series KMB32 force transducer is a small size all-purpose compression load cell.

Data load cell			
Rated force	400 N	2 kN	8 kN
Rated characteristic value	2,0 mV / V of rated output		
Relative error of characteristic value	≤ 10 % of rated output		
Relative repeatability error	≤ 0,05 % of rated output		
Relative reversibility error	≤ 0,5 % of rated output		
Relative linearity error	≤ ±0,15 %	≤ ±0,25 %	≤ ±0,35 %
Reference straight line	≤ ±0,15 %	≤ ±0,25 %	≤ ±0,35 %
Relative deviation of zero signal	≤ 0,05 % of rated output		
Rated displacement	≤ 0,15 mm		
Input resistance	700 ±10Ω		
Output resistance	700 ±10Ω		
Insulation resistance	≥ 500 MΩ @ 50 V DC		
Maximum operating force	≤ 150 % of rated force		
Rated range of excitation voltage	10 V DC / AC		
Operating range of excitation voltage	≤ 20 V DC / 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 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. 45 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:	KMB32		
Connecting cable: Cable length 3 m		K	
Rated force: 400 N 2 kN 8 kN			400N 2KN 8KN

Accessories (not included in delivery)

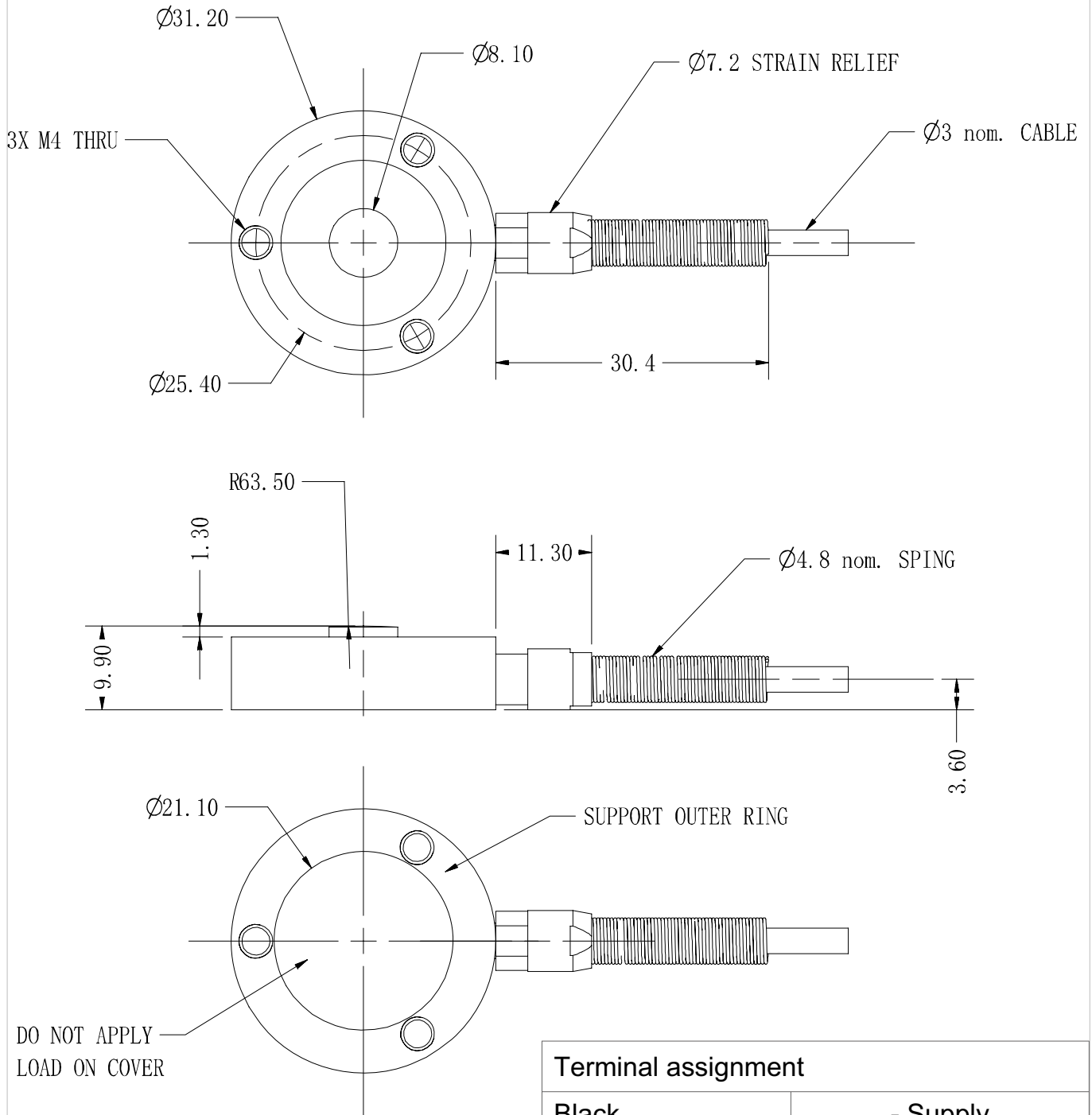
Measuring amplifier	IMA2 DMS
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Drawing



Dimensions in mm

Terminal assignment

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