

SERIES KMB32

BUTTON LOAD CELLS

GENERAL SPECIFICATION

- The KMB32 Series force transducer is a universal compression force cell. With dimensions of less than 32x10mm it is ideal for use in industrial applications such as insertion force testing, weighing and materials testing.



- Strain gauge full bridge
- Protection IP64
- Stainless steel
- Test protocol included
- Measuring range 0...400 N, 0...2 Kn, 0...8 kN

KMB32 Specifications			
Rated force (Fnom.)	400N	2KN	8KN
Rated characteristic value	2,0 mV / V $\pm$ 15,0 %		
Relative repeatability error	$\leq$ 0,05 % Fnom.		
Relative linearity error (% Fnom.)	$\leq \pm 0,15$	$\leq \pm 0,25$	$\leq \pm 0,35$
Hysteresis (% Fnom.)	$\leq \pm 0,15$	$\leq \pm 0,25$	$\leq \pm 0,35$
Relative deviation of zero signal	$\leq \pm 3,0$ % Fnom.		
Rated displacement	$\leq$ 0,15 mm		
Input resistance	700 $\pm$ 10 Ω		
Output resistance	700 $\pm$ 10 Ω		
Insulation resistance	$\geq$ 500 M Ω @ 50 V DC		
Maximum operating force	$\leq$ 150 % Fnom		
Rated range of excitation voltage	10 V DC / AC		
Operating range of excitation voltage	$\leq$ 20 V DC / AC		
Rated temperature range	-50 °C .. +90 °C		
Compensated temperature range	+15 °C .. +70 °C		
Protection	P64		
Temperature effect on characteristic value	$\leq$ 0,36 % Fnom. / 10 K		
Temperature effect on zero signal	$\leq$ 0,18 % Fnom. / 10 K		
Creep under load	$\leq$ 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		

Order code			
Series	KMB32		
Cable 3m		K	
Rated force			400N 2KN 8KN

***Accessories (not included in delivery) /Measuring amplifier IMA2 DMS**

DRAWING :

