

SERIES KMB51

BUTTON LOAD CELLS

GENERAL SPECIFICATION

- The KMB51 is a compact sized button load cell, designed for 110 kN nominal load.
- Application examples: Force measurement in assembly processes and factory automation. Weight determination in various industrial sectors,



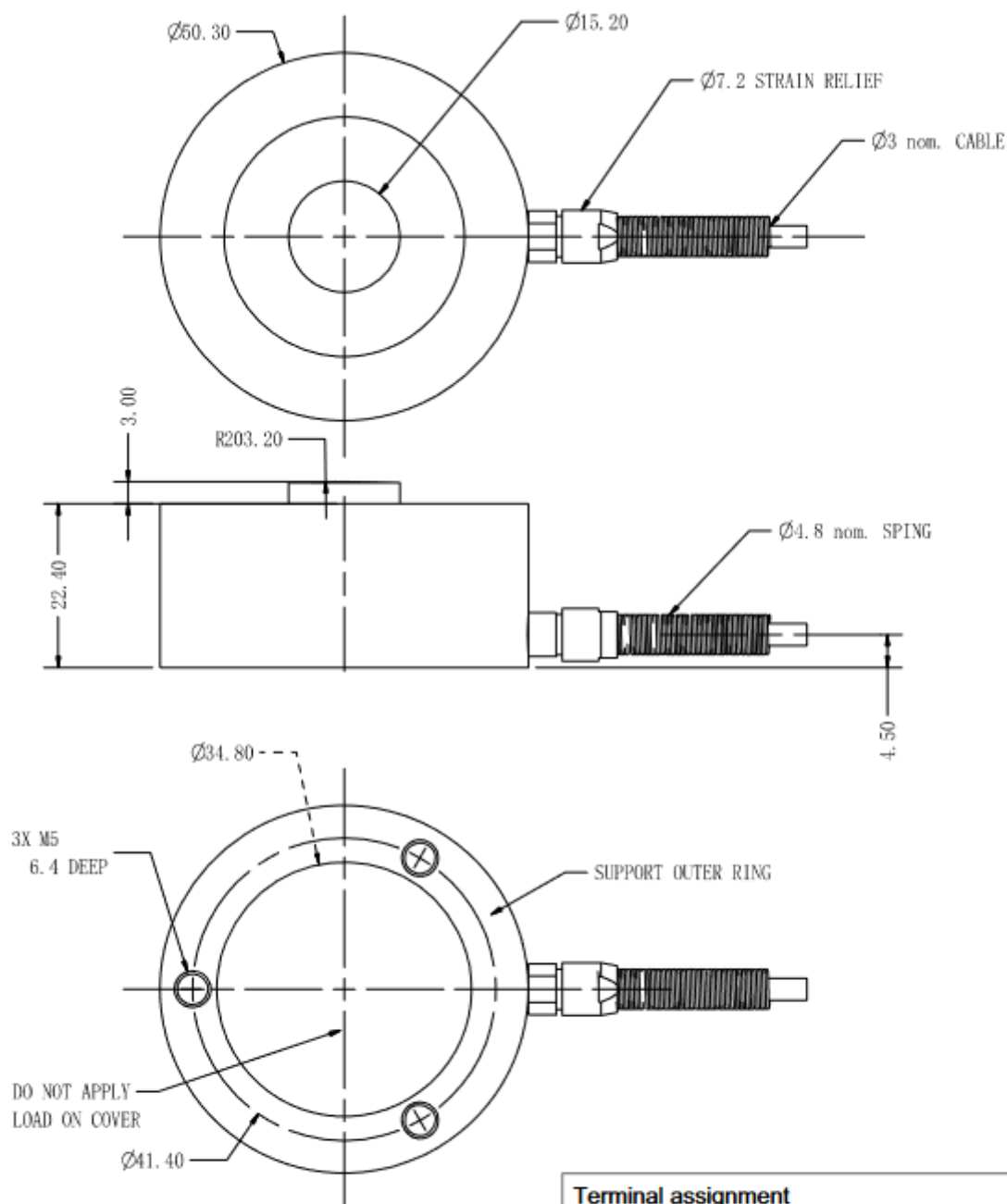
- Strain gauge full bridge
- Protection IP64
- Stainless steel
- Test protocol included
- Measuring range up to 110 Kn
- Diameter 50.3 mm

KMB51 Specifications	
Rated force (Fnom.)	110KN
Rated characteristic value	2.0 mV / V $\pm$ 15%
Relative linearity error	$\leq$ 0,5% of rated output
Hysteresis	$\leq$ 0,5% of rated output
Relative repeatability error	$\leq$ 0,5% of rated output
Relative deviation of zero signal	$\leq$ 0,1% of rated output
Rated displacement	$\leq$ 0.15 mm
Input resistance	700 $\pm$ 50 Ω
Output resistance	700 $\pm$ 50 Ω
Insulation resistance	$\geq$ 500 M Ω @ 50 V DC
Maximum operating force	$\leq$ 150% of rated force
Rated range of excitation voltage	10 VDC / AC
Operating range of excitation voltage	$\leq$ 20 VDC / AC
Rated temperature range	-50°C .. +90°C
Operating temperature range	0°C .. +70°C
Protection	IP64
Temperature effect on characteristic value	$\leq$ 0,36% of rated output / 10 K
Temperature effect on zero signal	$\leq$ 0,18% of rated output / 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. 360 g

Order code			
Series	KMB51		
Cable 3m		K	
Rated force			110KN

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

DRAWING/



Dimensions in mm

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