

**Button Load Cells**

**Series KMB51**



- Measuring range 0...110 kN
- Strain gauge
- Stainless steel
- Degree of protection IP64
- Calibration including measurement data

Series KMB51 force transducer is a all-purpose compression load cell.

Data load cell	
Rated force	110 kN
Rated characteristic value	2.0 mV / V of rated output
Relative error of characteristic value	≤ 15% of rated output
Relative repeatability error	≤ 0.5% 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
Rated displacement	≤ 0,15 mm
Input resistance	700 ± 50 Ω
Output resistance	700 ± 50 Ω
Insulation resistance	≥ 500 MΩ @ 50 VDC
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 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
Mass	ca. 360 g

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

**Button Load Cells**
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**Order code**
**Description**

Selection: standard=black/bold, possible options=grey/cursive

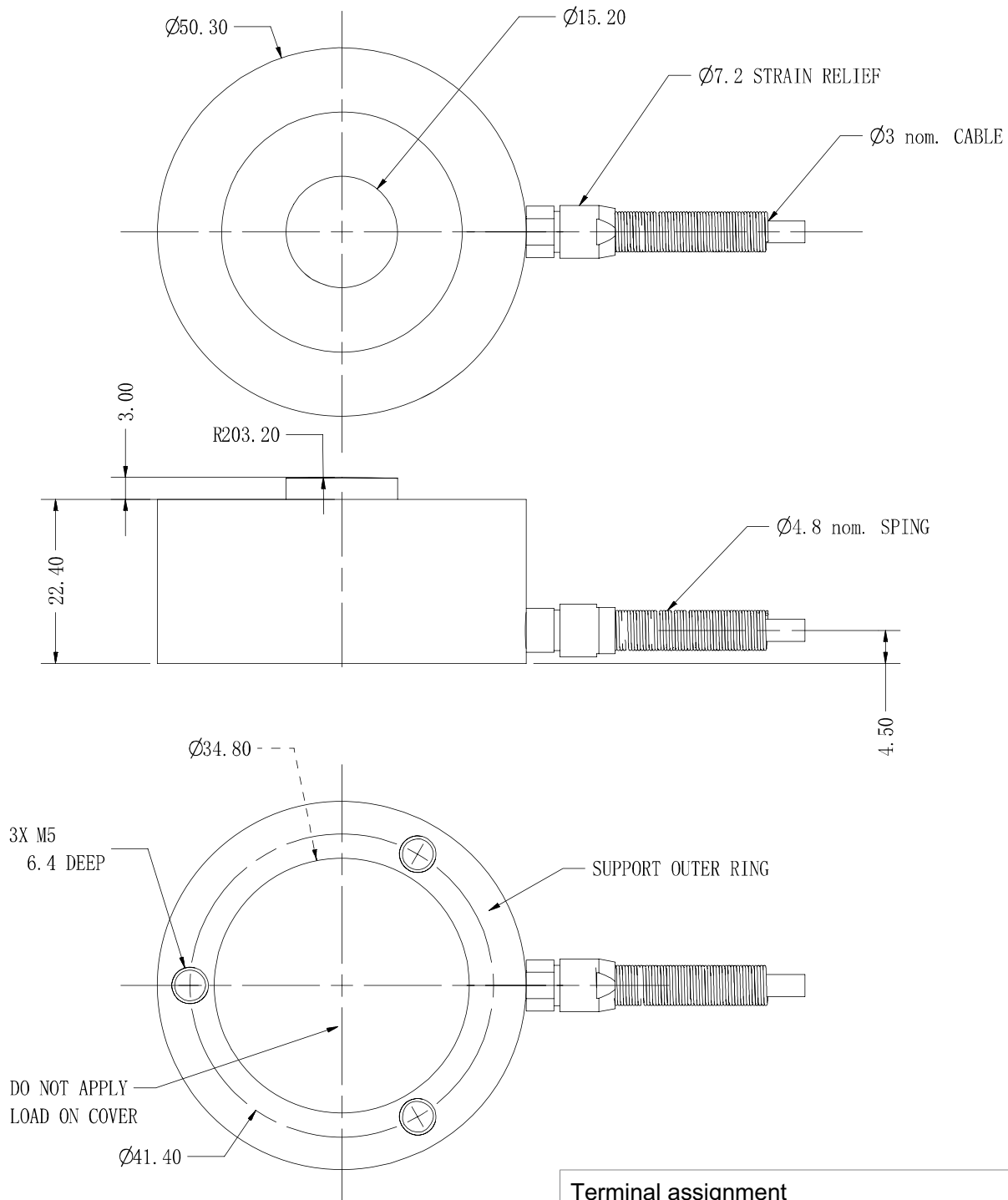
**Series:**
**KMB51**
**Connecting cable:  
Cable length 3 m**
**K**
**Rated force:  
110 kN**
**110KN**
**Accessories (not included in delivery)**
**Measuring amplifier**

IMA2 DMS

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Drawing



Dimensions in mm

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