



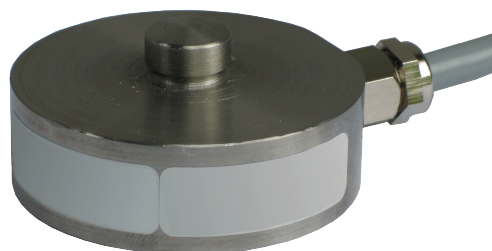
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Force Transducer Type CL 21

FEATURES:

- High accuracy
- High stability and repeatability
- Easy assembling
- Low profile design
- Insensitive against side loads
- Three year warranty and after sales service



The force transducer Model CL 21 is designed for measuring compressive forces. It offers a perfect combination of high measurement accuracy and compact design.

Mod. CL 21 is based on a high quality steel spring element equipped with a high-precision strain gauge full bridge. The bridge circuit is accurately balanced and fully temperature compensated. .

The configurations R1 and R2 of CL 21 employ a strain gauge bridge impedance of 700 Ω with a sensitivity of either 1 mV/V or 2 mV/V.

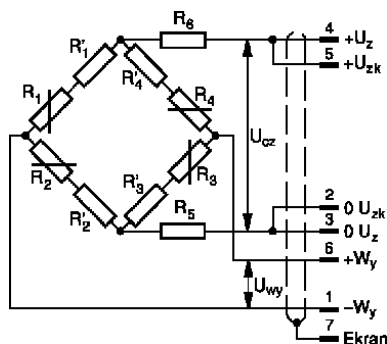
Mod. C 21 complies with protection standard IP67.

TECHNICAL SPECIFICATIONS:

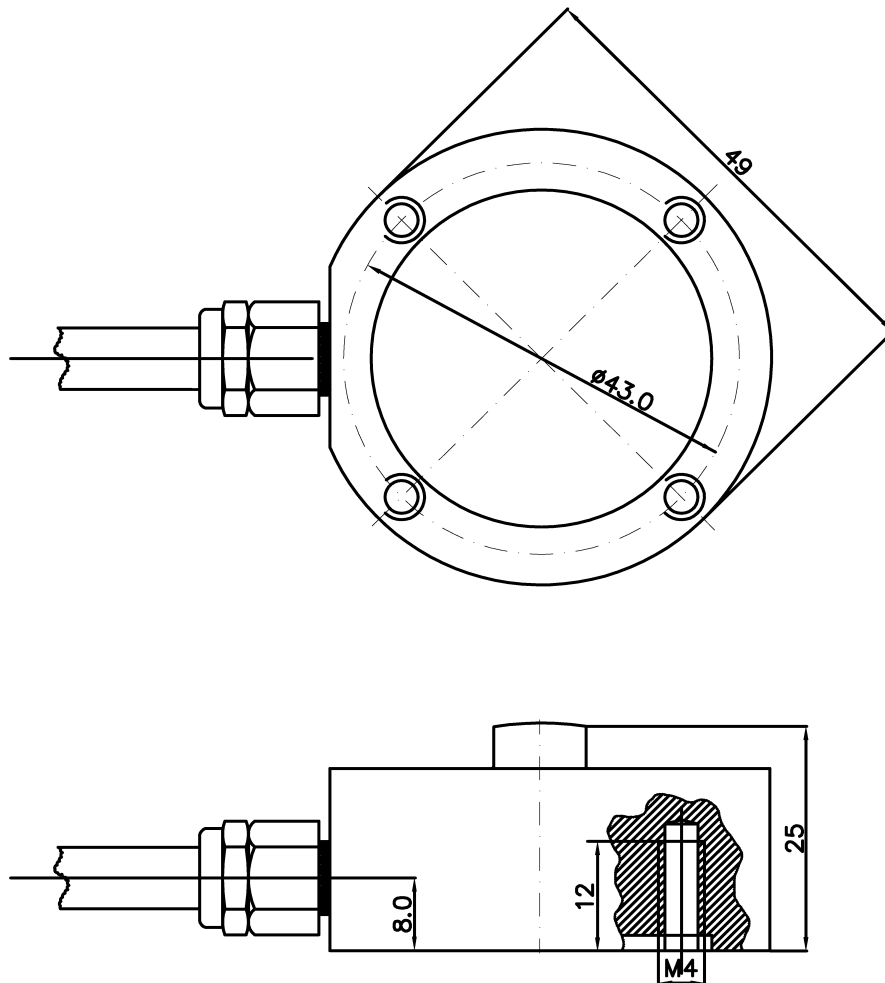
Range	kN	1; 2; 5; 10; 20
Output Signal	mV/V	1 – R1, 2 – R2
Accuracy		0.05 or 0.1
Nominal Supply Voltage	V	10
Strain Gauge Resistance	Ω	350
Input Resistance	Ω	730 $\pm$ 25
Output Resistance	Ω	700 $\pm$ 5
Creep	%/30 min	$\leq$ 0.03
Zero Return	%	$\leq$ 0.03
Operating Temperature Range	$^{\circ}\text{C}$	-20 to 100
Temperature Coefficient of Sensitivity	%/10K	$\leq$ 0.05
Temperature Coefficient of Zero	%/10K	$\leq$ 0.05
Temperature Compensated Range	$^{\circ}\text{C}$	0 to 90
Connector		O1 – O-ring gland
Protection Standard		IP67
Dimensions		see drawing
Spring Element Material		Stainless Steel
Cable length		0,5m (standard) or other on request

Wiring Schematic for R1 / R2:

- | | |
|----------|-------------------|
| 1 Brown | -W _y |
| 2 Pink | 0 U _{zk} |
| 3 White | 0 U _z |
| 4 Yellow | +U _z |
| 5 Grey | +U _{zk} |
| 6 Green | +W _y |
| 7 Black | shield |



DIMENSIONS:



ORDER INFORMATION:

CL 21-5 kN-0,1-R2-10-O1-1

Measuring Range _____
Accuracy Class _____
Configuration/Sensitivity (R1 or R2) _____
Excitation _____
Connectors (only O1) _____
Wire Length in m _____