

FO C...MIN Series

Miniature button type compression load cell

Ref : 2800

Rev : A



DESCRIPTION

This miniature compression load cell enables simple and reliable measurement in industries and laboratories. It is particularly well suited for compression measurements where there is very little space available. The load cell is a compact stainless-steel construction. Its elliptical shape conducts the measured force in a centered way without lateral effort.

Strain gauges (full bridge) are applied to the sensor surface.

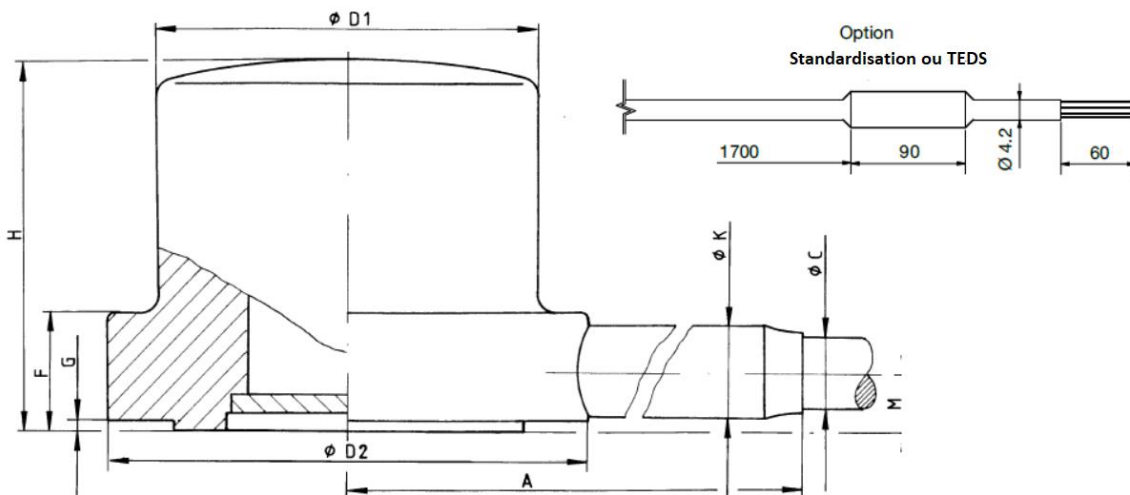
This sensor can be installed with contact glue or silicone. To achieve optimum measurement accuracy, it is preferable to protect the sensor against off-axis loads. Clamping forces shall not be applied to the surface of the sensor. When installing or mounting, make sure the cable output is not in tension.

Output signal at 1.7 mV/V

MESUREX is a sensor manufacturer. We can adapt most sensors to your needs. Please [contact us](#).

TECHNICAL DATA

Dimensions:



Measuring range	Precision	Non-repeatability	ØD1	ØD2	F	A	H	G	ØC	ØK	M	Weight (g)
0... 1KN	≤±0.75 %	≤±0.4 %	6.4	12.7	3.05	14.9	9.6	0.25	1.9	2.8	1.6	4
0... 2KN	≤±0.5 %	≤±0.25 %	6.8	12.7	3.05	14.9	9.6	0.25	1.9	2.8	1.6	4
0... 5KN	≤±0.5 %	≤±0.25 %	7.7	12.7	3.05	14.9	9.6	0.25	1.9	2.8	1.6	5
0... 10KN	≤±0.5 %	≤±0.25 %	10	12.7	3.05	14.9	9.6	0.25	1.9	2.8	1.6	7
0... 20KN	≤±0.5 %	≤±0.25 %	14	15.9	6	16.5	16	0.25	1.9	2.8	3.1	19
0... 50KN	≤±0.75 %	≤±0.25 %	19.7	22.4	6	19.7	16	0.25	1.9	2.8	3.1	40
0... 100KN	≤±0.75 %	≤±0.25 %	25.5	44	15	35	38	0.5	3	7	7.5	260

Electric values :

Bridge resistance: 350Ω
Excitation : 3Vac or Vdc
Max excitation : 5Vac or Vdc
Sensitivity: 1.7mV/V +/-0.5% (1.5mV/ V standardisation)
Insulation resistance: >10MΩ

Mechanical characteristics:

Construction: stainless steel 1.4542
Deflection: ≤50μm
Overload: 150% of capacity
Dynamic performance: 70% of full scale
Resonance frequency: >20KHz
Standardization option: 70x8mm for the electronic part
30 cm from the end of the cable
Protection class: IP54

General characteristics:

Operating temperature: -30... +100°C
Nominal temperature: +15... 70°C
Influence of temperature on offset: ≤±0.05%
Influence of temperature on sensitivity: ≤±0.05%

Electrical connection:

Electrical connection: 4 Teflon shielded wires, length 2m
qualified chain cable holder

Color of wires:

White: power +

Brown: Power supply -

Yellow: signal +

Green: signal -

CONTACT

MESUREX

13 Rue des Corroyés
730 Saint Arnoult en Yvelines (France)

Phone : +33 (0) 1 30 41 23 62

Mail : mesurex@mesurex.fr

Web : www.mesurex.fr