

Compression force transducer, Miniature, up to 2000 N

with electrical output



Description

With its compact dimensions and robust design, this load cell, manufactured from stainless steel, can be used in a wide variety of stations, in test bays and laboratories.

The load cell is easy to handle and facilitates relatively simple installation. Its compact dimensions make it particularly suitable for use in highly constricted structures where pressure forces are to be measured.

Note

In order to avoid overloading, it is advantageous to connect the load cell electrically during installation and to monitor the measured value.

The force to be measured must be applied concentrically and free of transverse force.

The load cells are to be mounted on a level surface.

Features

- Ease of force input
- Compact and small dimensions
- · Ease of assembly
- Very low installation height
- Protection class IP 65
- Combined error 0.35% of F.S.

Measuring ranges

• 100 N ... 2000 N

Applications

- Plant engineering
- Machine tool construction
- Measurement and inspection equipment
- Precision engineering
- Fully automated production centres, etc.

Specific information

• Calibration control: 100% signal

Model: F1212

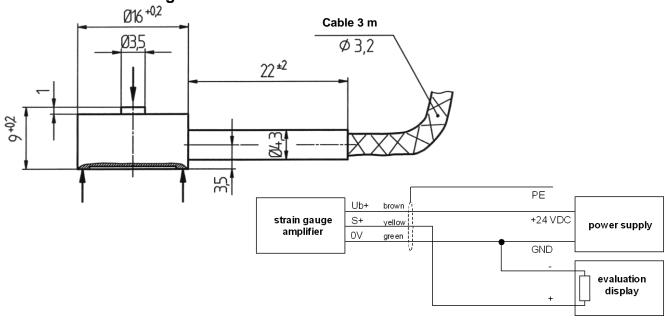
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Technical data

F1212	Options
100, 200, 500, 1000, 2000 N	
150% F _{nom}	
>300% F _{nom}	
≤± 0.35% of F.S.	
±70% F _{nom} acc. to DIN 50100	
<± 0.1% of F.S.	
<0.2 mm	
-10 up to +50°C	
-30 up to +80°C	
-50 up to +95°C	
23°C	
≤±0.2% of F.S./ 10K	
IP 65	
> 2 GΩ	
<u>-</u>	
1	
1	
Cable 5 III / 4-WIIE, SIIIEIUEU	100% signal
stainless steel	100 /0 Signal
1	
	100, 200, 500, 1000, 2000 N 150% F_{nom} >300% F_{nom} ≤± 0.35% of F.S. ±70% F_{nom} acc. to DIN 50100 <± 0.1% of F.S. <0.2 mm -10 up to +50°C -30 up to +80°C -50 up to +95°C 23°C ≤±0.2% of F.S./ 10K ≤±0.2% of F.S./ 10K IP 65

of F.S. = full scale value

Dimensional drawing



Pin assignment for cable integrated amplifier

Nominal load [N]	Dimensions in [mm]
100, 200, 500, 1000, 2000	see drawing above

Electrical connection		
Supply (-)	green	
Supply (+)	brown	
Sign. (+)	yellow	
Sign. (-)	white	
Control	grey	
Screen	screen	

Subject to technical changes