

# **Compression Force Transducer 1t up to 100t**

With very high accuracy



### Description

This force transducer is designed to measure static compression forces. It is made of stainless steel and has a very low installation height.

Because of compact and rugged design this transducer is used in small and mid-size platform scales, silo scales and in process engineering.

The measuring range of the force transducer is 1t up to 100t.

The completely welded design and the high quality cable connection guarantee a reliable application even in harsh conditions.

#### Note

During installation the force transducer should be connected and the measured value monitored. On this way overloading the force transducer can be avoided.

The force needs to be applied centrically and free of side loads.

Mounting the force transducer on an even surface is of importance.

### Features

- For compression forces
- Ease of force introduction •
- Rugged design •
- Ease of installation •
- Protection type IP68 (hermetically sealed) •
- Accuracy 0.05% of F.S.

#### Measuring Range

1t up to 100t

### Applications

- Apparatus engineering •
- Assembly lines •
- Measuring and Monitoring facilities •
- Special equipment construction
- Weighing.

#### Model: F1215

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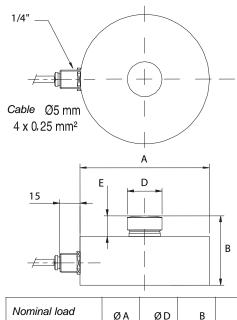
DE 910\_F1215

# **Technical Data**

Model	F1215		
Nominal load <i>F</i> <sub>nom</sub> in t	1; 2.5; 5; 10; 15; 30; 50; 100		
Combined error	0.05% of F.S.		
Limit load	150% <i>F</i> <sub>nom</sub>		
Breaking load	>300% F <sub>nom</sub>		
Max. dynamic load	+70% F <sub>nom</sub> according to DIN 50 100		
Creep, 30 min. at Fnom	≤±0.03% of F.S.		
Nominal temperature range	-10+50		
Service temperature range	-20+60		
Temperature effect -Span	≤±0.0050% of F.S./ °C		
-Zero	≤±0.0050% of F.S./ °C		
Protection type acc. to DIN 40 050/EN 60	529 IP 68		
Insulation resistance	≥ 2 GΩ (50 V)		
Analogue output			
- Output signal	2.0 mV/V		
<ul> <li>Bridge resistance</li> </ul>	700 ±20 Ω		
<ul> <li>Bridge resistance output</li> </ul>	700 ±5 Ω		
- Tolerance of span	± 0.1% of F.S.		
- Zero Tolerance	≤± 1.0% of F.S.		
- Supply power	5 15 V		
- Electrical connection	Measuring cable 4-wires, Length: 5m (≤10t) and 10m (≥15t)		
Installation kit	see data sheet DE939		
Weight	1.5 kg (≤15t) and 4kg (≥30t)		
Material of measuring device	Stainless steel 1.4542		

F.S.. = Full Scale

## Dimensions



Nominal load	ØA	ØD	В	E
1;2.5;5;10;15 t	82	22	44	12
30 t	126	35	54	14
50;100 t	164	60	80	20

Wiring Code	Colour	
Supply (-)	black	
Supply (+)	Red	
Signal (+)	Green	
Signal (-)	White	