



ALF218

Description

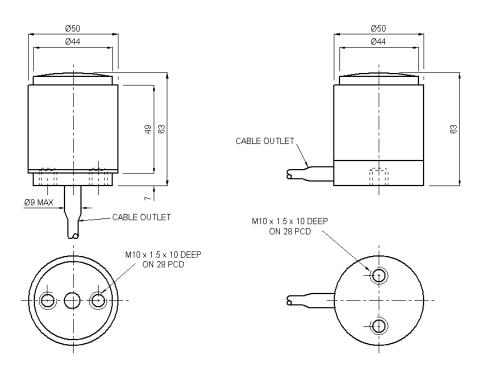
- Measurement ranges 0 ... 100 kN to 0 ... 400 kN
- Compression
- Non-linearity 0.5 % RL
- Output signal 2.3 mV/V or rationalised 2.0 mV/V ± 0.5 %
- Supply voltage 10 VDC, max. 20 VDC



Geometry:

Small column in a sealed case, with a domed top load bearing face. For use in compression.

Dimensions



Dimensions in "mm", approx. values

These drawings are for information only and not intended for construction purpose.

Please contact us for detailed drawings.





Specifications

Rated load:	100 kN / 200 kN / 400 kN
Calibration:	Compression
Non-linearity, terminal:	±0.5 % RL
Hysteresis:	±0.5 % RL
Creep, 20 min:	±0.05 % AL
Repeatability:	±0.02 % RL
Rated output, nominal:	2.3 mV/V
Rated output, rationalised:	2.0 mV/V ±0.5 % RL
Zero load output:	±4 % RL Temperature
effect on rated output:	±0.005 % AL/K
Temperature effect on zero load output:	±0.005 % RL/K
Compensated temperature range:	-10 +50 °C
Operating temperature range:	-10 +80 °C
Supply voltage, recommended:	10 V
Supply voltage, max.:	20 V
Bridge resistance:	700 Ω
Insulation resistance, minimum at 50 VDC:	500 ΜΩ
Overload, safe:	150 % RL
Overload, ultimate:	400 % RL
Sealing:	IP65
Weight (excl. cable):	approx. 0.75 kg to 1 kg

Rated load	Structural stiffness, nom.	Rated load	Structural stiffness, nom.	Rated load	Structural stiffness, nom.
100 kN	1.7 x 10 ⁹ N/m	200 kN	3.4 x 10 ⁹ N/m	400 kN	6.8 x 10 ⁹ N/m

Notes:

- 1. RL = rated load
- 2. AL = applied load
- Temperature coefficients apply over the compensated range.
- The load must be applied directly through the central loading axis.
- 5. It is essential to use load cells with rationalised output when operating several load cells (e. q. hopper, platform etc.) in parallel mode.

Electrical Connection

The load cell is fitted with 2 m of PVC insulated 4 core screened cable type 7-2-4C.

The screen is not connected to the load cell body.

Wiring:	
red	+ supply voltage
blue	- supply voltage
yellow	+ output signal
green	- output signal
orange	screen

Ordering Codes

ALF218CFR0K0 Compression, IP65, side cable ALF218CFR0KN Compres	ssion, IP65, side cable, rationalised
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If a non-standard cable length is required add this to the description and change the F to B. If bottom cable entry is required add this information to the description. Please add range in the required units.

Due to continuous product development, ALTHEN and partners reserve the right to vary the foregoing details without prior notice.

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The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.