

ALF 323

Description

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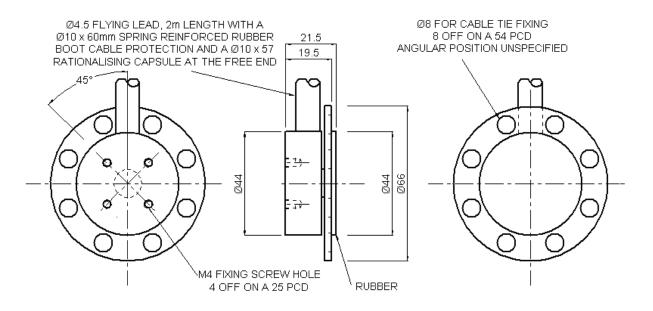
SENSORS & CONTROLS

- Measurement range 0 ... 1 kN
- Compression
- Non-linearity 0.05 % RL
- Output signal rationalised 2.0 mV/V ±0.1 %
- Supply voltage 10 VDC, max. 20 VDC

The ALF323 is a compact, high accuracy low profile load cell for measuring clutch pedal application forces. The load cell is robust in construction with a maximum force range of 1 kN. Its multi-hole fixing allows simple attachment to any shape pedal using screws or cable ties. The low profile design maintains the clutch pedals ergonomic geometry. Low mass aluminium alloy construction reduces the mass influence upon the clutch pedal in dynamic testing.

If you require other force ranges the ALF304 or ALF322 may be suitable.

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:	1 kN
Non-linearity, terminal:	±0.05 % RL
Hysteresis:	±0.05 % RL
Creep, 20 min:	±0.05 % AL
Repeatability:	±0.02 % RL
Rated output, rationalised:	2.0 mV/V ±0.1 % RL
Zero load output:	±10 % RL
Temperature effect on rated output:	±0.002 % 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
Inclined load error, concentric at 3°	±0.25 % RL
Structural stiffness:	1.5 x 10 ⁷ N/m
Overload, safe:	150 % RL
Overload, ultimate:	300 % RL
Dynamic load capacity:	70 % RL
Sideload, safe:	100 % RL
Environmental sealing:	IP65
Weight (excl. cable):	арргох. 80 д
Material:	Aluminium alloy

Notes:

1. RL = rated load

2. AL = applied load

3. Temperature coefficients apply over the compensated range.

Electrical Connections

The load cell is fitted with 2 m of flexible polyurethane jacketed 4 core screened cable.

The screen is not connected to the load cell body.

Wiring:+ supply voltagered- supply voltageblue +output signal:yellow- output signal:greenscreenorange

Ordering Codes

ALF323CFR0KN-1000N Compression, IP65, rationalised, rated load 1 kN

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

Page 2/2

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.

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