

PFT Sensors

Type CPFTA...

Pedal force sensors

For measurement of force exerted on the brake pedal.

- Compact and robust
- Easy, quick, and secure mounting
- Exact measurement independent of the angle of activation

Description

Pedal force measurements are independent of the angle of the activation force. The sensors are mounted quickly and easily using a special rubber strap. Pedal force sensors of Type CPFTA are available with various measuring ranges.

The sensors are connected to the display unit via a spiral cable. A potentiometer enables zero adjustment of the display. Two operating modes are possible:

- Display of the current pedal force
- Display and storage of the maximum achieved pedal force

Application

For determination of the forces exerted on the brake pedal, for example during brake tests.



Technical data

Performance specifications

Measurement range	N	0 ... 1,500
Additional measurement range CPFTA2	N	0 ... 250
Additional measurement range CPFTA4	N	0 ... 2,500
Linearity	%	0.7
Output range	V	0 ... 1.5
Temperature coefficient (per 10 °C)	%	0.2

System specifications

Power supply ¹⁾	V	12
Power consumption at 12 V	W	5
Operating temperature range	°C	0 ... 60
Dimensions		
Sensor (LxWxH)	mm	65x52x32
Display (LxWxH)	mm	160x80x65

¹⁾ Via 8 Mignon batteries type AA 1.5 V each or data acquisition

Mounting

With rubber strap at the brake pedal.



Fig. 1: Sensor mounted at the brake pedal

Included accessories

	Type/Art. No.
• Rubber strap for mounting	55063611
• Batteries Mignon 1.5 Type AA	55062122
• Spacer bolt, 6 kt M6x7	55062119
• Suction holder with ball joint, ø90 mm	55065535
• Signal cable, 6 pin LEMO*, l = 5 m	55061945
• Calibration	44000623
• USB stick software and manuals	55158846
• Transport case PFT/HFT, complete	55123087

* other connectors on request

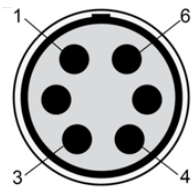
Optional accessories

• Hand lever for PFT sensor	Type/art. no. 18012412
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Pin assignments

6 pin LEMO connector

Pin	Signal
1	n.c.
2	+12 V
3	GND
4	n.c.
5	Signal
6	GND



Type: 6 pin LEMO
View: Female insert of display

Open ended

Pin	Signal
Grey	+12 V
Brown	AGND
Yellow	n.c.
Green	Signal
White	GND

Ordering key

Type CPFTA

Sensor

With digital display, 1 measurement range	1
With digital display, 2 measurement ranges	2
With integrated electronics	3
With digital display, 0 ... 2,500 N	4

* Other types on request

Ordering example

Type CPFTA1

Pedal force sensor with display and 1 measurement range