

Model 1199 Pedal Force Transducers

Description

Model 1199 Pedal-Force Transducer is specifically developed to measure the compressive force applied by a foot on a pedal to brake vehicles, or the compressive force applied by feet on sewing machine, or other pedal forces applied on any objects.

To fit this application, the model 1199 Pedal-Force Transducer features with both a pad of a spherical surface to correctly receive the force and its installation fittings so as to be easily installed on its objects such as brake pedals or pedals of sewing machine.

Made from stainless steel and finished with welded structure the model 1199 Pedal-Force Transducer also features a robust design and higher IP rating up to IP66.

Thanks to advanced strain gauge technology from BCM SENSOR, this 1199 Pad-Force Transducers possesses property that it can deliver stable and accurate measuring results.

In addition, the 1199 transducer can be integrated with TEDS (transducer electronic data sheet) on request, by which it can be easily recalibrated on site without using conventional calibration facility.



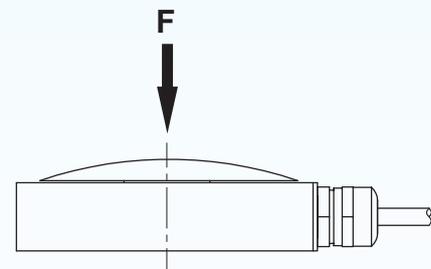
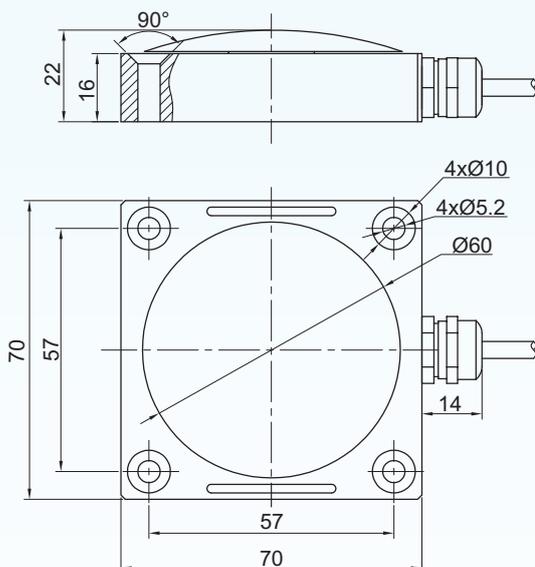
Features

- robust design
- TEDS available on request
- accuracy up to 1%fs
- IP66 rating

Applications

- compression force measurement on brake pedal of automobile
- pedal force monitoring

Dimensions

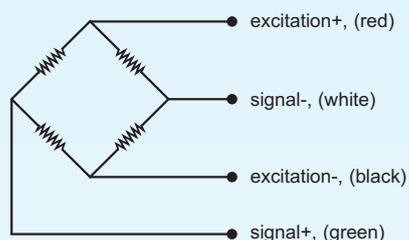


Note: All dimensions are in mm.

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Electrical Connection



Technical Data

Parameters	Units	Specifications
capacity	N	500, 1000, 1500
safe load limit	%fs	120
ultimate overload	%fs	200
output sensitivity at fs	mV/V	≥ 1
zero unbalance	%fs	≤ ±2
accuracy	%fs	±1
excitation (supply voltage)	Vdc	10
max. excitation voltage	Vdc	15
input resistance	Ω	780±30
output resistance	Ω	700±10
insulation resistance	MΩ	≥ 2000 @50Vdc
storage temp. range	°C	-35 ~ +80
operating temp. range	°C	-20 ~ +80
compensated temp. range	°C	-10 ~ +40
temp. coefficient of sensitivity	%fso/°C	≤ ±0.005
temp. coefficient of zero	%fso/°C	≤ ±0.003
load cell body material		stainless steel
sealing		welded
mechanical interface		refer to the dimensions on the datasheets
electrical interface		Ø4mm, 4-core shielded PVC cable, 1m cable length
environment protection		IP66
unit weight	g	~150

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Ordering Information

position (pos.) 1: model								
1199								
pos. 2: capacities								
500N 1000N 1500N								
pos. 3: output sensitivity								
1 mV/V								
pos. 4: combined error								
1%fs								
pos. 5: bridge resistance								
700Ω (Rin = 780±30Ω, Rout = 700±10Ω)								
pos. 6: mechanical interface								
not applicable								
pos. 7: electrical interface								
4/4/PVC/1 = Ø4mm, 4-core shielded PVC cable, cable length = 1m(#) #: Cable length can be customized on request.								
pos. 8: environment protection								
IP66								
pos. 9: customized specifications								
“(*)” is necessary only if any customized parameter is required, otherwise it is neglectable.								
pos.1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6	pos. 7	pos. 8	pos. 9

Examples of Ordering Code

- standard 1199:
1199-500N-1mV/V-1%fs-700Ω-4/4/PVC/1-IP65
- customized 1199:
1199-500N-1mV/V-1%fs-700Ω-4/4/PVC/3-IP65-(*)
(*) Customized wire length = 3 meter.

The listed dimensions, specifications and ordering information are subject to change without prior notice.

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