





"FR" / Pedal force sensor

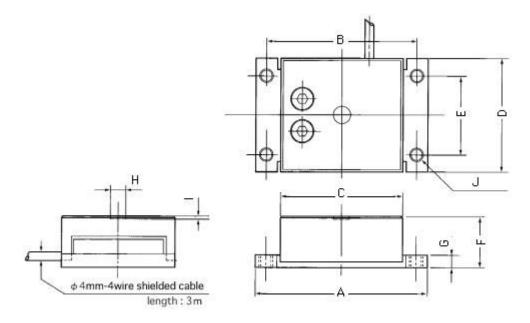


Features

- This is a pedal treading force sensor made of aluminium. Thin shape and light weight.
- Less variation in output to be necessarily brought about by the change in loading position.
- Excellent linearity (0.2%).

Related products: Shift-knob force sensor / 6-Component force sensor

Appearance Dimensions



Model and Capacity / Dimension / etc. (unit : mm)

Model	Capacity	Objects for measurement	A	В	C	D	E	F	G	Н	I	J	Weight
FRA-100N	100N	Accelerator pedal	88	80	70	45	30	13.5	2.5			4-Ф4	115g
FRC-500N	500N	Clutch pedal	74	64	50	50	33	20	6	Ф8 ^{Н8}	1.5	4-M6	160g
FRB-1KN	1kN	Brake pedal	84	74	60	55	38	25	6	Ф8 ^{Н8}	1.5	4-M6	550g
FRB-2KN	2kN	Brake pedal	94	84	70	60	42	30	7	Ф8 ^{Н8}	1.5	4-M6	650g

• The weight indicated in the tables of this data sheet does not include the weight of cables.





• The standard sizes of "H" and "I" (dimensions for rubber pad inlaying) are H=Φ8^{H8},I=1.5mm, but subject to change in accordance with the stipulations sent from users. These sizes do not apply to the acceleration pedals of Mpdel "FRA".

Specifications

Safe Overload 150%RC

Rated Output $1 \text{mV/V} \pm 20\% (100 \text{N})$

 $1.5 \text{mV/V} \pm 20\% (500 \text{N to } 2 \text{kN})$

Nonlinearity 0.2%RO Hysteresis 0.2%RO Repeatability 0.1%RO

Excitation Voltage 10V (or less)
Safe Excitation Voltage 15V (or less)

Input Rsistance 400Ω Output Rsistance 350Ω

Compensated Temp.Range 0 to 40°C

Safe Temp.Range -10 to 50°C
Temp.Effect on Zero 0.1%RO/°C
Temp.Effect on Output 0.05%/°C

Cable Φ 4mm-4wire shielded cable, length : 3m

- Can meet the requirements for changing the length of cables and for mounting the connectors (NDIS Standard) on the cables.
- * Guaranteeing that the output variation due to the change of loading position to be within 1% or less.

