

FSU series

2023/12/06

Features



Aluminum alloy. Roverbal type and full bridge type
 Rated capacity : 4.903 N {0.5 kgf}~147.1 N {15 kgf}

Specification

Specification name	Specification contents
Rated capacity	4.903 N{0.5 kgf}~147.1 N{15 kgf}
Safe overload	450 %R.C.
Ultimate overload	600 %R.C.
Rated output	0.5 mV/V±0.05 mV/V(FSU-0.5K: 0.5 mV/V±0.075 mV/V)
Non-linearity	0.1 %R.O.
Hysteresis	0.1 %R.O.
Repeatability	0.1 %R.O.
Creep	0.15 %R.O./1 min
Creep recovery	0.15 %R.O./1 min
Excitation, recommended	10 V or less

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Excitation, maximum	15 V
Zero balance	±0.4 mV/V
Input resistance	340 Ω±50 Ω
Output resistance	340 Ω±50 Ω
Insulation resistance	1,000 MΩ or more (DC50 V) (between bridge and main body)
Temp. range, compensated	0 °C~60 °C
Temp. range, safe	-10 °C~80 °C
Temp. effect on zero	±1 %R.O./10 °C
Temp. effect on output	±1 %LOAD/10 °C
Lead wire	AWG30, 150 mm directly attached, cable end is separated
Class of protection	IP00 or equivalent
Material of element	Aluminium alloy
Durability	1,000,000 times with rated load applied.
Effect of eccentric load	• The center of loading plate and also the center of load cell should be the same position. • Error is within 0.8 %R.O. applied with 1/2 of rated capacity at the position of 50 mm of eccentricity.

Table of P/N

Parts No.	Rated capacity [N]	Rated capacity [kgf]	Weight(Approx.) [g]	Cable	Cable2	Cable3
FSU-0.5K	4.903	0.5	30	AWG30	150 mm directly attached	cable end is separated
FSU-1K	9.807	1	30	AWG30	150 mm directly attached	cable end is separated
FSU-2K	19.61	2	30	AWG30	150 mm directly attached	cable end is separated
FSU-5K	49.03	5	30	AWG30	150 mm directly attached	cable end is separated
FSU-15K	147.1	5	30	AWG30	150 mm directly attached	cable end is separated

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Parts No.	3D CAD files [STEP]	CAD files[DXF]
FSU-0.5K	FSU-0.5K.STEP	fsu.dxf
FSU-1K	FSU-1K.STEP	fsu.dxf
FSU-2K	FSU-2K.STEP	fsu.dxf
FSU-5K	FSU-5K.STEP	fsu.dxf
FSU-15K	FSU-15K.STEP	fsu.dxf