

FSV series

2023/12/06

Features



Aluminum element, Rovertal method sensor, full bridge type

Rated capacity : 0.981 N {100 gf} ~ 2.942 N {300 gf}

Specification

Specification name	Specification contents
Rated capacity	0.981 N {100 gf} ~ 2.942 N {300 gf}
Safe overload	200 %R.C.
Ultimate overload	300 %R.C.
Rated output	FSV-100G : 0.31 mV/V ~ 0.39 mV/V FSV-300G : 0.4 mV/V ± 0.06 mV/V
Non-linearity	0.05 %R.O.
Hysteresis	0.05 %R.O.
Creep	FSV-100G : 0.08 %R.O./3 min, FSV-300G : 0.06 %R.O./3 min
Creep recovery	FSV-100G : 0.08 %R.O./3 min, FSV-300G : 0.06 %R.O./3 min
Excitation, recommended	4 V or less
Excitation, maximum	12 V
Zero balance	± 0.8 mV/V
Input resistance	1,000 Ω ± 100 Ω
Output resistance	1,000 Ω ± 100 Ω

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Insulation resistance	1,000 MΩ or more (DC50 V)
Temp. range, compensated	-10 °C~50 °C
Temp. range, safe	-10 °C~50 °C
Temp. effect on zero	±2 %R.O./10 °C
Temp. effect on output	±0.7 %LOAD/10 °C
Lead wire	AWG30, 60 mm directly attached, cable end is separated
Class of protection	IP00 or equivalent
Material of element	Alluminium alloy
Durability	1,000,000 times with rated load applied.

Table of P/N

Parts No.	Rated capacity [N]	Rated capacity [gf]	3D CAD files [STEP]
FSV-100G	0.981	100	FSV-100G.STEP
FSV-300G	2.942	300	FSV-300G.STEP