



FUJIKURA COMPOSITES

“PFU” series

Compact shape pressure sensor.

■ Features

-It is a piezo resistance type semiconductor pressure sensor which is miniaturized by forming the amplification circuit / temperature compensation circuit in the main body as the storage pressure sensing element, forming amplification, temperature compensation, and output calibration circuit on the same one chip as the sensor.

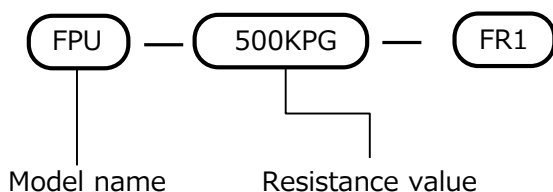
-Because of its compact shape, it can easily be installed in a narrow space. Also, since the nut part and the case part rotate, attachment without cable twist is possible.



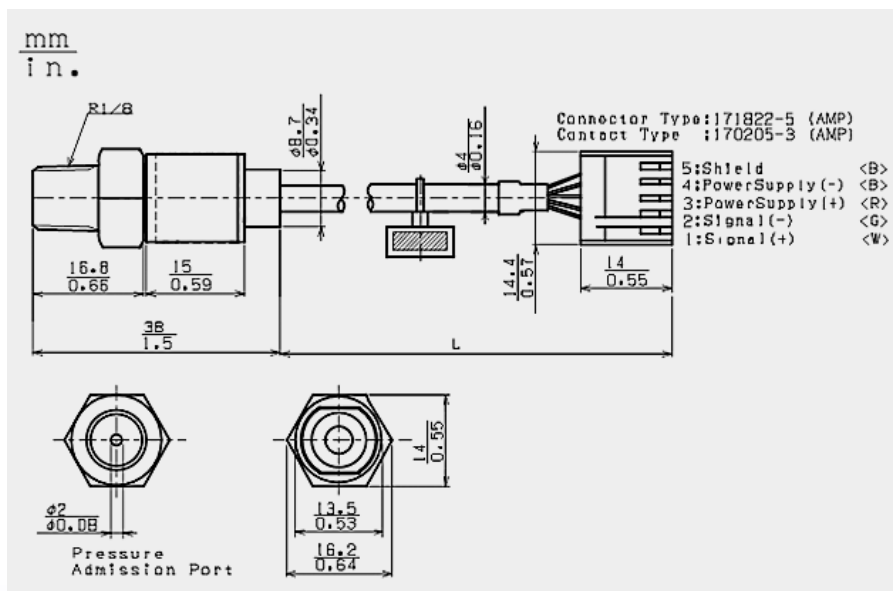
■ Applications

-FPU series can be used in precision machines in a wide range of fields such as semiconductors and machine tools.

■ Model designation



■ Size





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■ Specification

Rating pressure Range	kPa[psi]	0~500[0~72.51]
Proof pressure	MPa[psi]	1.0[145.04]
Kinds of pressure		Gauge pressure
Application fluid		Non-corrosive gas

■ Electrical performance

Offset voltage	VDC	1.0±0.1VDC (at 25℃[77° F])
Span voltage	VDC	4.0±0.1VDC (at 25℃[77° F])
Output voltage	VDC	1.0~5.0
Output impedance	kΩ	1
Source current	mA	Less than 0.2
Sink current	mA	Less than 2.0
Repeat accuracy	%FS	±0.2
Linearity	%FS	±0.3
Hysteresis	%FS	±0.2
Temperature Characteristic	%FS	Less than ± 2.5%FS for a characteristic of 25℃[77° F] in a temperature range of 0 ~50℃[0~120° F]
Output response	msec	Less than 2
Operating temperature Limit	℃[° F]	-10~70℃[14~158° F]
Accuracy guaranteed temperature range	℃[° F]	0~50[0~120° F]
Storage temperature range	℃[° F]	-30~85℃[-22~185° F]
Operating humidity range	%RH	35~85 (No dew condensation and no freeze)
Power-supply voltage	VDC	11.0~24.0
Quiescent current	mA	Less than 13 within the limit of rating pressure range and Power-supply voltage
Insulation resistance	Ω	More than 100MΩ (connecting nut , electric wire in a lump DC500V)
Dielectric strength voltage		AC1500V with a minute (connecting nut , electric wire in a lump)



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