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PFS Automotive & Ergonomic Metrology

PFS-220 Configuration Request Brief

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> **Planning targets, not a released manufacturing datasheet.** No validated performance, stock, certification or approved interchangeability is established by this document.

Brake Pedal Force Sensors

Measure driver brake effort with a low-profile, quick-mount pedal force load cell. Specify the pedal envelope, peak load and readout before selecting a road-test configuration.

Request code	Nominal selection	Architecture
PFS-220-500N	500 N / 112.4 lbf	Fz; Bridge sensor
PFS-220-1000N	1,000 N / 224.8 lbf	Fz; Bridge sensor
PFS-220-1500N	1,500 N / 337.2 lbf	Fz; Bridge sensor
PFS-220-2500N	2,500 N / 562.0 lbf	Fz; Bridge sensor

Envelope and mounting request

Requested target: Ø65.5 × 16.5 mm. Total installed height includes the mounting plate.

Request 58.0 mm B.C.D.; choose #6-32 or M4 explicitly. Thread versions are separate interfaces.

Signal chain and acceptance evidence

Request 700 Ω or a reviewed alternative bridge; sensitivity, excitation and cable schedule must match the readout.

200–300% spike-overload and <0.5% eccentric-load error are design targets awaiting capacity-specific test evidence.

Include with the RFQ

1. Provide pedal width, height, curvature and available foot clearance.
2. Define panic-braking peaks, off-axis loading and required uncertainty.
3. Confirm calibration, mounting restraint and cable routing before vehicle testing.
4. Connector gender / key / pin view, cable length, supply, output and receiving instrument.

5. Quantity, destination, target delivery, drawing revision and calibration requirements.

Documents to obtain before design release

Approved dimensioned PFS drawing / STEP, pin schedule, configured signal map, serial-specific calibration and agreed acceptance evidence are not included here. Request them for the exact configuration at inquiry@pedalforcesensor.com.
