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PFS Automotive & Ergonomic Metrology

PFS-200 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.

Clutch, Accelerator & Foot Pedal Load Cells

Capture clutch effort, accelerator resistance and industrial foot-pedal actuation without overlooking sensor weight, cable drag or the return mechanism.

Request code	Nominal selection	Architecture
PFS-200-100N	100 N / 22.5 lbf	Fz; Bridge sensor
PFS-200-250N	250 N / 56.2 lbf	Fz; Bridge sensor
PFS-200-500N	500 N / 112.4 lbf	Fz; Bridge sensor
PFS-200-1000N	1,000 N / 224.8 lbf	Fz; Bridge sensor

Envelope and mounting request

Requested target: Ø50.3 mm, 10–12 mm sensor height. Earlier 12–15 mm planning data is superseded; approved geometry is still required.

Request a compact removable plate. Check added mass and stack height with the actual pedal return mechanism.

Signal chain and acceptance evidence

Bridge, conditioned analog, USB or CAN are configuration requests. Electronics need their own supply and output definition.

Specify low-force resolution, zero drift, cable drag, return behavior and an endurance sequence.

Include with the RFQ

1. Include the minimum measurable force and allowable added pedal mass.
2. Check full pedal travel, return spring behavior and cable bend radius.
3. For endurance tests, specify duty cycle, cycle count and temperature.

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.
