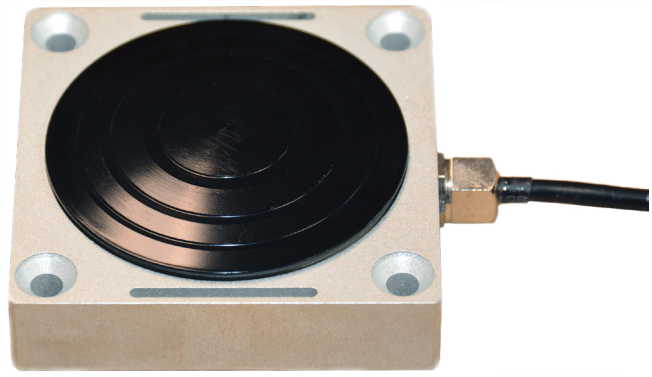
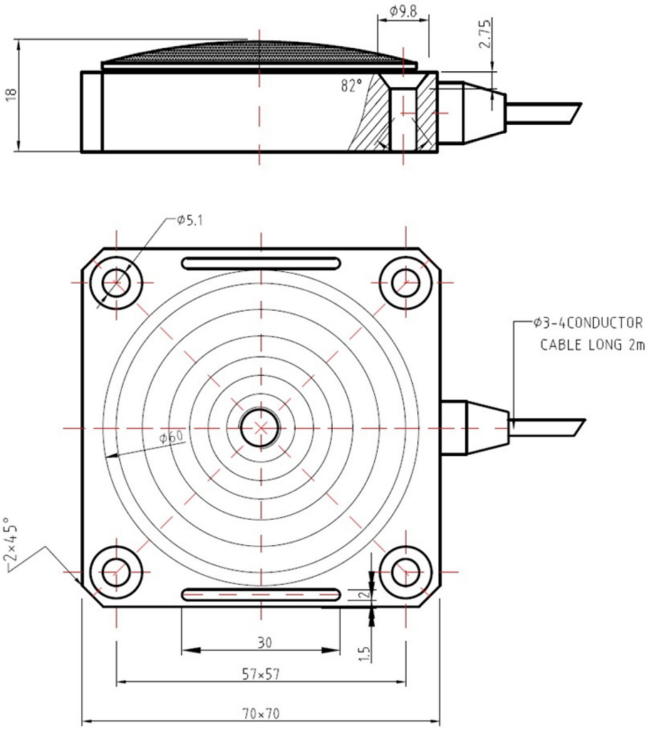
Loadstar SENSORS
Load Sensing Made Easy

iPedal Pro Pedal Force Sensor





(All dimensions are in mm)

The iPedal Pro is a low profile force sensor that makes it convenient to measure compressive forces applied on a pedal (for e.g. accelerator, brakes, bicycle pedals) by binding it to the pedal using available slots along the edges of the sensor or the through holes at the four corners. The circular dome shape of the sensor enables one to apply loads vertically downwards onto the sensor without imparting a significant side load or moment on the load cell.

It can be used with our DI-100U/DI-1000U Digital Load Cell Interfaces with USB output or with our DI-1000ZP/WiFi/BLE Wireless Interfaces and LoadVUE Pro (LV-1000) software to easily display, log and plot force data on a Windows compatible Tablet or PC.

If an analog 0-5 V DC output is needed, then the sensor can be used with our AI-1000 Analog Load Cell Interface or for 4-20 mA our AI-1000-CV can be mated and calibrated with the load cell.

Accuracy Specifications

Accuracy	
Non-linearity	± 0.1% of Full Scale
Hysteresis	± 0.1% of Full Scale
Non-repeatability	± 0.1% of Full Scale

Load Cell Specifications

Typical Values	
Zero Balance	2% of Full Scale
Safe Overload	120% of Full Scale
Material	Aluminum
Full Scale Output	1.5 ± 10 % mV/V
Input Impedance	390 ±30 Ω
Output Impedance	350 ±4 Ω
Insulation	≥ 5000 MΩ / 50 V DC
Recommended Excitation Voltage	10V DC
Compensated Temperature Range	14 to 100 °F (-10 to 40 °C)
Temperature Effect on Zero	0.05% of F.S. / 10°C
Temperature Effect on Span	0.05% of F.S. / 10°C

Wiring Information

Cable Color Code	
Red	+ Excitation
Black	- Excitation
Green	+ Signal
White	- Signal

Ordering Information

Capacity	Part No.
300 lb	RLPF-300-A

Recommended Interfaces

DI-100U/DI-1000U
Digital Load Cell Interface

DI-1000ZP/DI-1000WiFi/
DI-1000-BLE
Wireless Load Cell Interface

AI-1000/AI-1000-CV
Signal Conditioner

DS-3000-Pro/DS-4000-Pro
Touch Screen Display

Wireless Load Cell Configuration

USB Load Cell Configuration

Touch Screen Display Configuration

Analog Load Cell Configuration