

High Performance Load Pins

Models 5113 and 5117



Rugged Sensor Design – Ideal for Any Harsh Environment

FEATURES

Excellent long-term stability

Reliable operation even under severe load conditions up to ± 250 kN

Designed as a direct drop-in replacement for any other load pin in the market

Can be used in lieu of hydraulic pressure or draft pin sensors

Ratiometric voltage output converter embedded

Model 5113 is a compact 38 mm diameter load pin available in three capacities up to ± 60 kN

Model 5117 is a compact 25 mm diameter load pin with a capacity of ± 45 kN

Uses internally manufactured state-of-the-art foil-based strain gages bonded onto a robust zinc-plated, hardened alloy steel construction

APPLICATIONS

Agriculture equipment

Off-road vehicles

Force measurement devices

OPTIONS

Custom solutions available

Special harsh environment coating available

High Performance Load Pins

Models 5113 and 5117 are high performance loading pins, which are designed to provide force measurement on an applied load across the pin. We use our in-house state-of-the-art strain gages and bond onto a robust, hardened zinc plated steel construction body, resulting in a solution that is an ideal sensor for any harsh environment. Both 5113 and 5117 are direct drop-in replacements for any other machinery design in the market using load pins. Both load pins are typically used in 3-point hitch towing systems.

Model 5117



Model 5113

Parameter	Value		Unit
	5113	5117	
Rated Load	±25, ±40, ±60	±45	kN
Excitation	8.0	8.00 ±1%	VDC
Safe overload	±250	±110	kN
Output at zero load	4.00 ±0.08		VDC
Output at positive load	6.00 ±0.18	6.00 ±0.16	VDC
Output at negative load	2.00 ±0.18	6.00 ±0.16	VDC
Environmental protection	IP66		—
Construction	Hardened alloy steel, zinc plated		—

At VPG Transducers, we understand that each application can be unique or special.

Please contact our in-house Custom Solutions team to engage our services towards meeting your specific requirements:

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