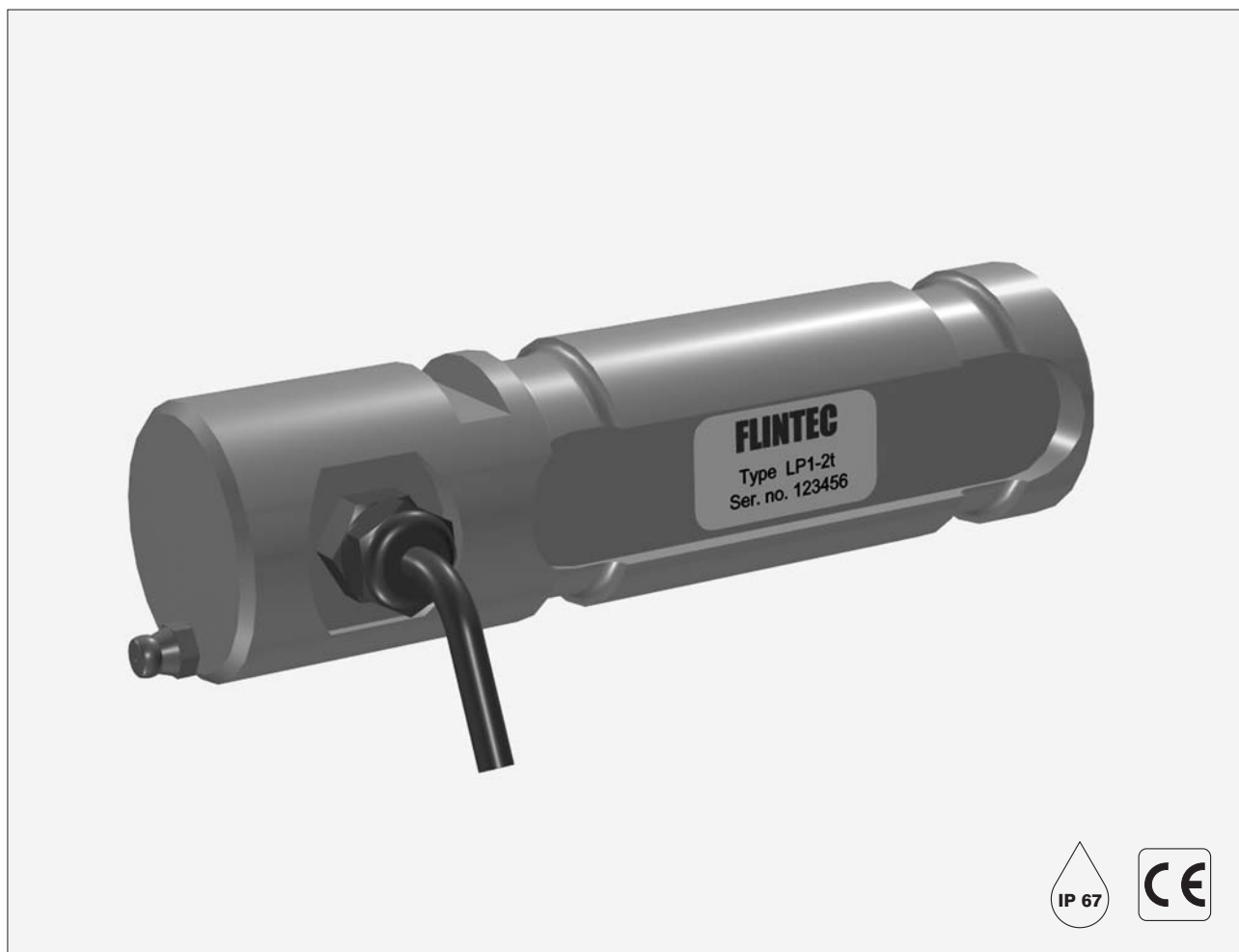


Type LP1 Load Pin



Flintec load pins are designed to meet the most stringent accuracy and environmental conditions.

In addition to a standard range of load pins, Flintec is able to design and manufacture load pins to suit specific customer applications. Typical applications include crane and hoist load/condition monitoring as well as numerous applications in the fields of safety, industrial measurement, vehicles and aerospace industries.

Load pins can be supplied with alloy or stainless steel construction and in a range of capacities. Designed to measure force in a single axis, the internal strain gage sensing circuit is employed to ensure highest accuracy and optimum reliability.

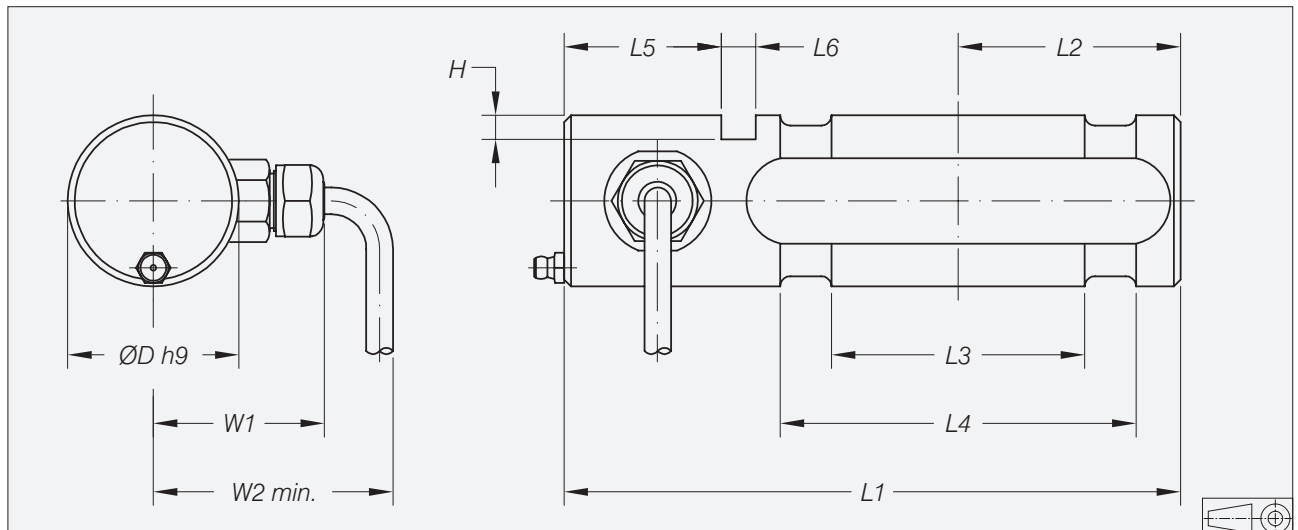
In addition, Flintec load pins are (can be) supplied with the calibration technique (in mV/V/Ohm) which eliminates time consuming calibration in multi-pin applications.

Other designs of load pin with integrated electronic amplifiers are also available.

LP1 Specifications

Maximum capacity	(E _{max})	t	1 / 2 / 2.5 / 5	10
Rated Output	(Cn)	mV/V	1.5 ± 0.1%	2 ± 0.1%
Accuracy		%Cn	≤ ± 0.5	
Repeatability		%Cn	≤ ± 0.1	
Temperature effect on minimum dead load output		%Cn/°C	≤ ± 0.025	
Temperature effect on sensitivity		%/°C	≤ ± 0.010	
Excitation voltage		V	5...10	
Zero balance		%Cn	≤ ± 2	
Input resistance		Ω	375 ± 10	
Output resistance		Ω	375 ± 10	
Insulation resistance (100 DC)		MΩ	≥ 5000	
Operating temperature range		°C	-30...+70	
Safe load limit	(E _{lim})	%E _{max}	150	
Load cell material			stainless steel 17-4 PH (1.4548)	
Sealing			potted	
Protection according DIN 40.050			IP 67	

Dimensions



Type	D	W1	W2	L1	L2	L3	L4	L5	L6	H
LP1-1/2 t	25	25	35	90	32.5	37	52	23	5	3.5
LP1-2.5/5 t	31.75	29	39	120	45.5	50.8	72.75	26	5	5
LP1-10 t	31.75	29	39	120	45.5	50.8	66.8	26	5	5

All dimensions in mm. Dimensions and specifications are subject to change without notice.

Wiring

- The load pin is provided with a shielded, 4 conductor cable (AWG 24). Cable jacket polyurethane.
- Cable length: 3 m.
- Cable diameter: 5 mm.
- The shield is floating (On request the shield can be connected to the load cell body).

