

TECHNICAL DATA SHEET

LPI® Load Cell Protector 36V



Features

- Transient overvoltage protection to sensitive strain gauge based load cells and signal conditioners
- IP65 rated enclosure
- Lines are protected by shunt-connected, common mode overvoltage transient diodes
- Designed so that noise via device capacitance is eliminated
- 32 V DC voltage
- Surge rating 150A 8/20µs line to screen

Technical Data

Ordering Code	ILC-36	LCP (PCB)-36V
Excitation voltage:	Max 32 V DC	Max 32 V DC
Loop resistance:	0 Ohms	0 - Ohms
Protection stages:	Transient protection diodes	Transient protection diodes
Clamp voltage:	36 V line-to-screen typical 18 V signal +Vsig to -Vsig (refer Fig.1)	36 V line-to-screen typical 18 V signal +Vsig to -Vsig (refer Fig.1)
Surge rating:	150 A for 8/20 µs pulse line-to-screen	150 A for 8/20 µs pulse line-to-screen
Earth clamp:	Gas arrester 10 kA screen-to-ground 90 V	Gas arrester 10 kA screen-to-ground 90 V
Dimensions:	110 x 80 x 67 mm	80 x 90 x 20 mm
Mounting:	90 x 60 mm to suit M4 screws	68 x 78 mm to suit M4 Screws
Enclosure rating:	IP65	NA
Earth screw / Lead:	M4 x 15 mm	M6 Lug (Lead)
Warranty	5 years – Contact LPI for full warranty details	
Weight	230 g	230 g

Application

The ILC-36 load cell surge protector is designed for use with load cells using four-wire or six-wire connections to a strain gauge bridge. It is installed in series with the line to be protected.

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Installation

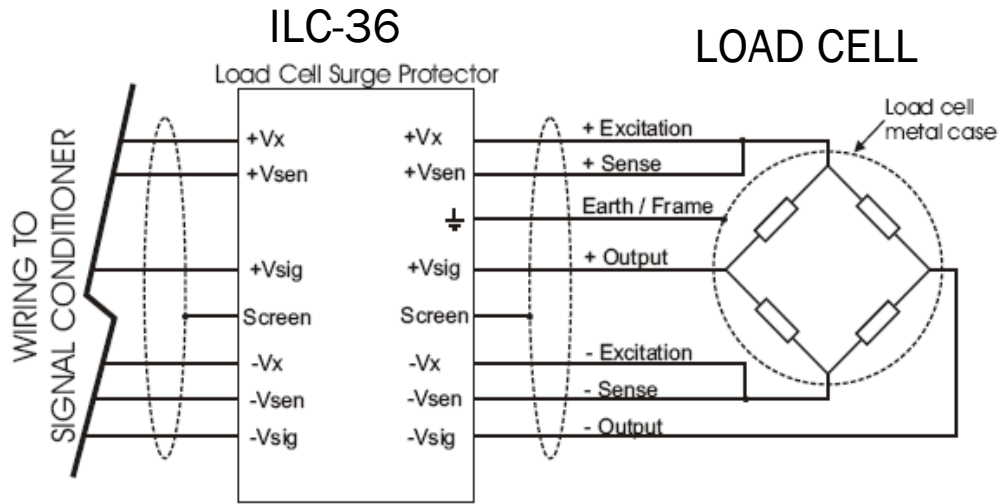


Figure 1: Load Cell Schematic Diagram

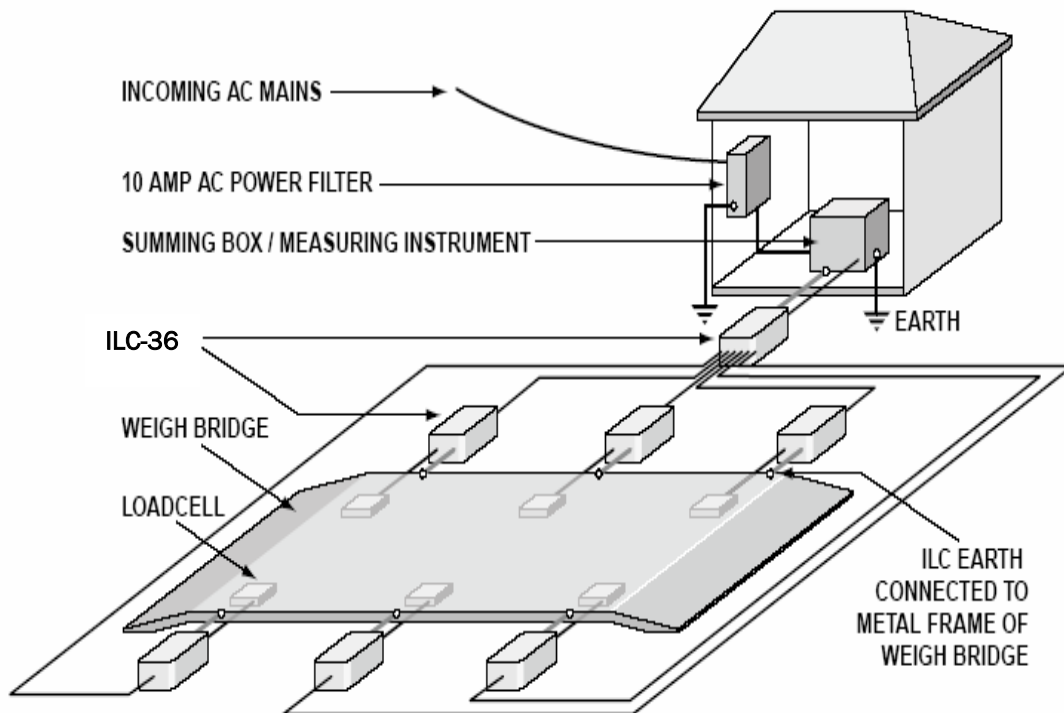


Figure 2: Load Cell Installation Diagram