

- Technical Data Sheet: LPI ILC36V LOAD CELL PROTECTOR
 - For 4 or 6 wire applications
 - Fully self-contained in IP65 enclosure
 - Protects both signal and supply lines



LPI® ILC36V LOAD CELL SURGE PROTECTOR

Product Description

The LPI ILC36V has been developed to offer transient over-voltage protection to sensitive strain gauge based load cells and signal conditioners. It is configured to provide voltage clamping across the strain gauge outputs as well as the excitation voltage from the signal conditioner. A low capacitance connection to earth helps to avoid earth loops, whilst providing a reliable current path under transient conditions.

Operation

The ILC36V transient protectors are designed for the protection of sensitive strain gauge based measuring equipment from the damaging effects of lightning surges, transients and RF interference.

The lines are protected by shunt - connected, common-mode over-voltage transient diodes. These diodes connect from each protected line to the cable screen pin. An additional diode is used to provide transverse mode protection across the load cell bridge output.

The cable screen pin is then connected to earth via a low capacitance gas filled arrestor. In this way noise via device capacitance is eliminated.

Application

The ILC36V 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.

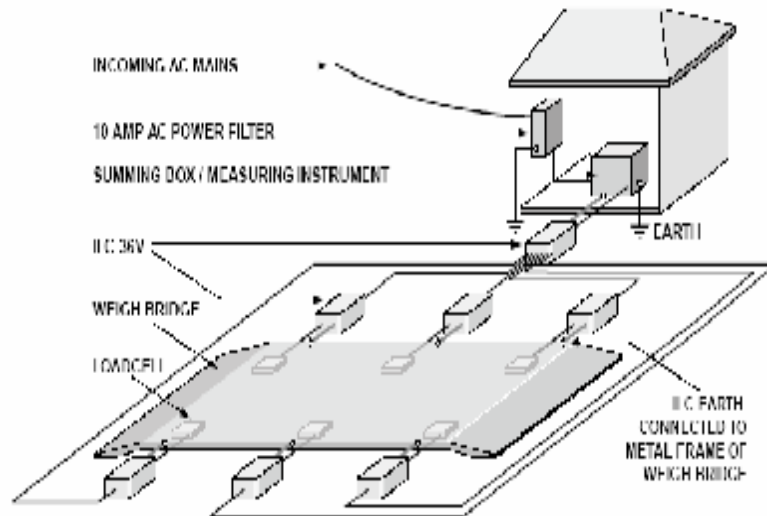
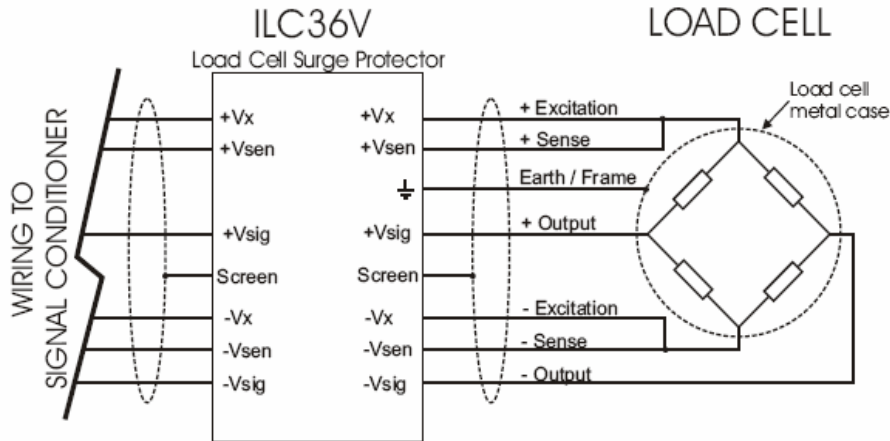
Specifications

Model No:	ILC36V
Excitation voltage:	Max 32VDC
Loop resistance:	0 ohms
Protection stages:	Transient protection diodes
Clamp voltage:	36V line to screen typical 18V signal +ve to -ve typical
Surge rating:	150A for 8/20µs pulse line to screen
Earth clamp:	Gas arrester 10kA screen to ground 90V
Dimensions:	110 x 80 x 67mm
Mounting:	90 x 60mm to suit M4 screws
Enclosure rating:	IP 65
Earth screw:	M4 x 15mm



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Warranty

The ILC36V load cell protector is Australian designed and manufactured. The product is guaranteed to be free from defects in material and workmanship for 5 years after dispatch. Should this product prove to be defective for that reason during the warranty period it will be repaired or replaced at no cost when returned freight is prepaid from place of purchase.

The warranty does not cover any consequential personal injury, loss or damage suffered by the purchaser, including any cost due to loss of use of tangible property or loss of operations or profit howsoever arising.

The purchaser acknowledges that protection by lightning, surge and transient equipment can only be provided to a particular statistical level and 100% protection is not offered and cannot be provided.



- **“LPI Endorsed Product”** – The symbol of assurance of quality and performance.
- LPI has a policy of continuing product development. Therefore, the above specifications are subject to change without notice.

LPI® - Innovative Lightning and Surge Protection Solutions

Direct Strike Protection

Surge & Transient Protection for Power, Data, Communications and RF lines

Grounding Products & Solutions