

IS-LCP-18

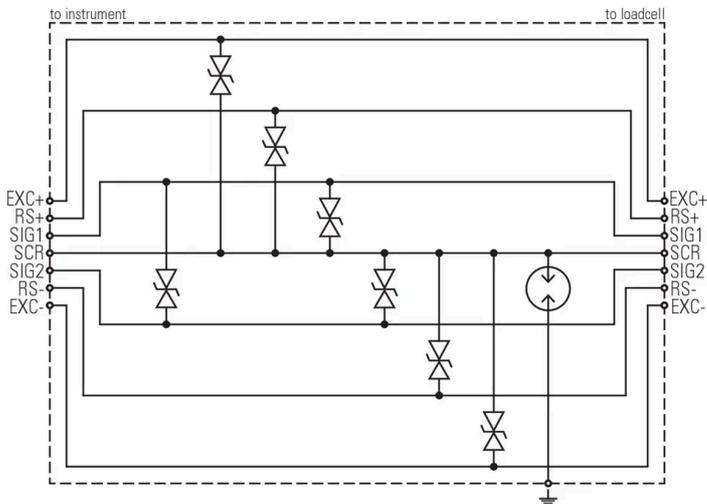
IS-LCP Intrinsically Safe Load Cell Protector

The IS-LCP is a specially designed intrinsically safe surge protector for both 4 and 6-wire loadcells installed in hazardous areas. It can also be used to protect the controlling measuring instrument. The IS-LCP is certified for use in hazardous areas to IEC Ex ia IIC T4 and II 1 G Ex ia IIC T4. The IS-LCP is certified for installation in load cell circuits and will not affect the calibration of the loadcells. The IS-LCP comes in an IP67 rated enclosure with internal terminal blocks at each end to make the connections to both the loadcell and the measuring instrument, effectively making a series connection.

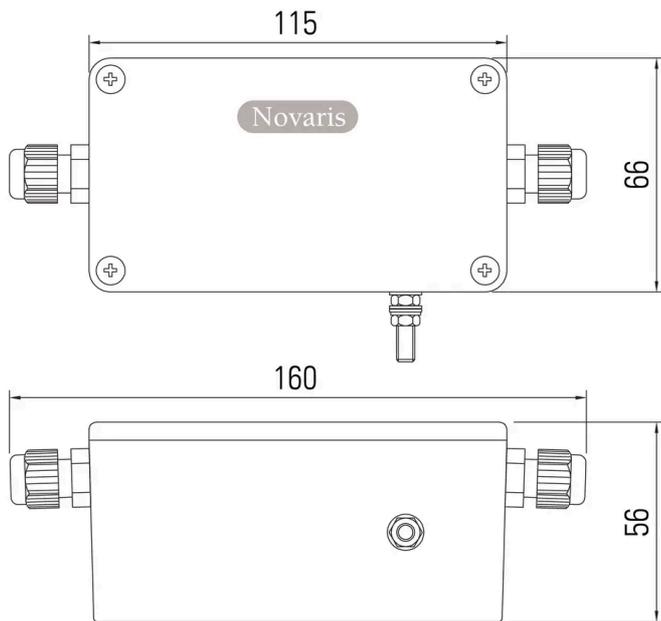


Image for illustrative purposes only

Wiring



Dimensions



Product Datasheet

Electrical Specifications

Connection type		Series
Number of lines		4 or 6
Modes of protection		Transverse and Common
Maximum continuous voltage (DC)	U_c	18V
Maximum continuous voltage (AC)	U_c	12V
Maximum discharge current (8/20 μ s)	I_{max}	250A
Maximum load current	I_L	6.5A
AC durability 5x1s		1A rms
Overstressed fault mode		Mode 2
Response time	t_A	<5ns
Line resistance		0.2 Ω
Earthing		M4 SS Stud

Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ μ s	U_p	45V
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Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ μ s	U_p	350V
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Mechanical Specifications

Minimum operating temperature		-40°C
Maximum operating temperature		85°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		Free standing
Environmental rating		IP67
Enclosure material		Aluminium
Enclosure finish		Blue powdercoat
Terminal type		Cage clamp
Terminal capacity		2.5mm ²
Terminal screw torque		0.5Nm
Length		160mm
Width		66mm
Height		56mm
Dimensional tolerance		0.5mm

Standard Specifications

IEC 60079-0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety 'i'
IEC 61643-21	SPD connected to telecommunications and signalling networks - Cat C2
UL 1449 & UL 497B	Protectors for data, communications and fire-alarm circuits
ITU-T K.44	Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents
AS 1768	Signalling/Telecommunications surge protection
2014/34/EU	Equipment and protective systems intended for use in potentially explosive atmospheres

Shipping Specifications

Weight		600g
Customs tariff		85363000, 85363010

Other Specifications

Product Code		IS-LCP-18
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