



# OMNITERM LZB Dual Field Contact Interface Module

Model C2476A LZB Dual input contact field interface with Surge Suppression.

DATASHEET

- Field Interface for two contact Inputs
- Includes 10kA Surge Protection.
- High Side Switch output.
- 10-30Vdc powered
- Very low power suits battery applications



## FEATURES

- DIN Rail or surface mountable
- Narrow 22.5mm module width
- IEC61508 SIL1 Compliant
- Short Circuit Proof Inputs and outputs
- Wide operating temperature range
- CE Mark Compliant
- 1500Vac Isolation Input/Output
- SIL1 Rating for Safety Critical Applications

## OVERVIEW

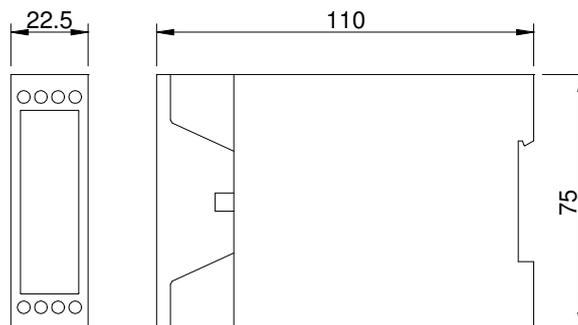
The OMNITERM LZB is a dual input field contact interface module designed to protect RTU and PLC installations from external factors such as lightning surges, ground loops and wiring faults.

This module includes a fully specified surge arrester and a high side output driver allowing you to combine all these functions into a single module.

Forming part of OMNIFLEX's extensive OMNITERM range of industrial instrumentation, the OMNITERM LZB is designed to be DIN rail or surface mounted and is a space saving 22.5mm wide, or 11.25mm per channel.

See the companion Omniterm LZA and LZD datasheet for dual analogue inputs with surge protection.

## Mechanical Details

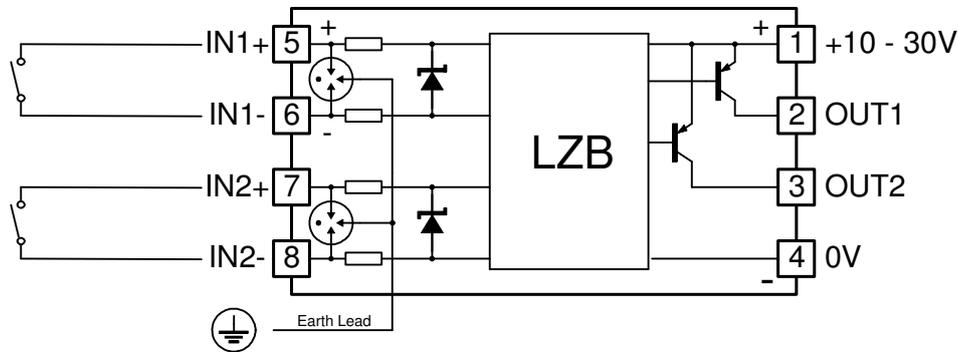




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## Electrical Connections



Dual Channel Omniterm LZB

## Specifications

### Input

Open circuit voltage	30Vdc max.
Closed circuit current	5mA per input circuit max.
Max. Loop Resistance to detect closed contact	200 ohms
Min. Loop Resistance to detect open contact	100 kohms

### Output

Output current	0.1A max
Output current Limit	< 0.2A / 5s
Protection	Thermal Shutdown
Response time	10ms typical
Indication	Green LED per input ON when input contact is closed.

### Surge Suppression

Discharge Current	10kA 8/20µs nominal
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### Power Supply

Operating Range	10-30Volts dc
Supply Current	25mA max.+ output current

### Temperature

Storage	-20 to +70°C
Operating	0 to +60°C
Effect of Temperature	< 100ppm/°C

### Weight

Unpacked / Packed	130g / 155g approx.
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### Compliance to Standards

Safety	EN 60950:1995
Emissions	EN55011 and EN50081-2:1994 Group I, Class A
Immunity – ESD	IEC 61000-4-2:1995, level 3
Immunity – RF Fields	IEC 61000-4-3:1995, level 3

Immunity – Fast Transients	IEC 61000-4-4:1995 2 kV – DC power port 1 kV – input/output lines
Immunity – RF Fields	IEC 61000-4-3:1995, level 3
Surge Rating	IEC 61000-4-5:2005, level 4
Function Safety: IEC61508	Suitable for use in SIL1 applications. (See Separate Reliability Datasheet RDC2476)

### Housing

Width	22.5mm (1.18")
Height	75mm(2.95")
Depth (from panel)	110mm(4.33")
Terminals	2.0mm <sup>2</sup> max. 1.5mm <sup>2</sup> recommended
Material	ABS Flammability Class HB as per UL94

### Ordering Information

Order Code	Description
C2476A	Omniterm LZB

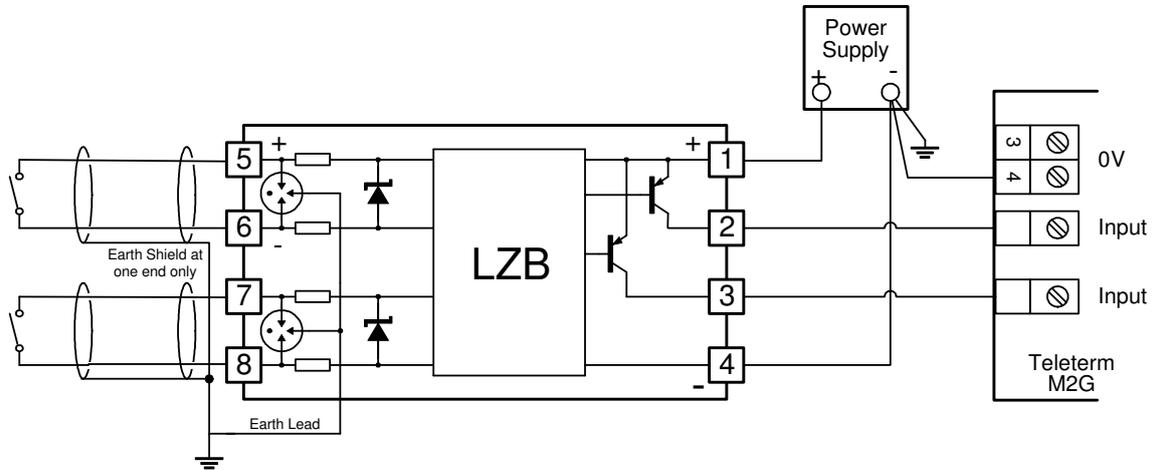




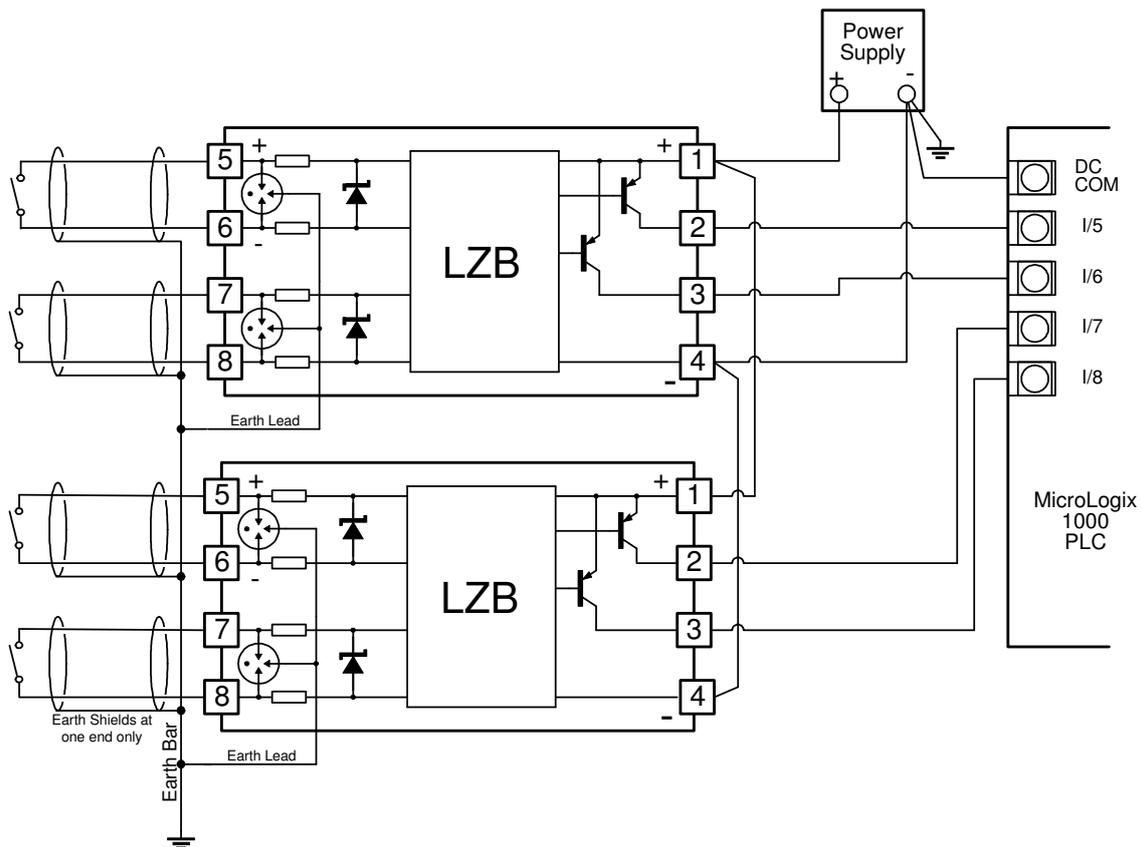
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## Application Examples



**Example 1: Interfacing field contact inputs to a Teleterm M2 Series RTU**



**Example 2: Interfacing four field contact inputs to a third party PLC.**

