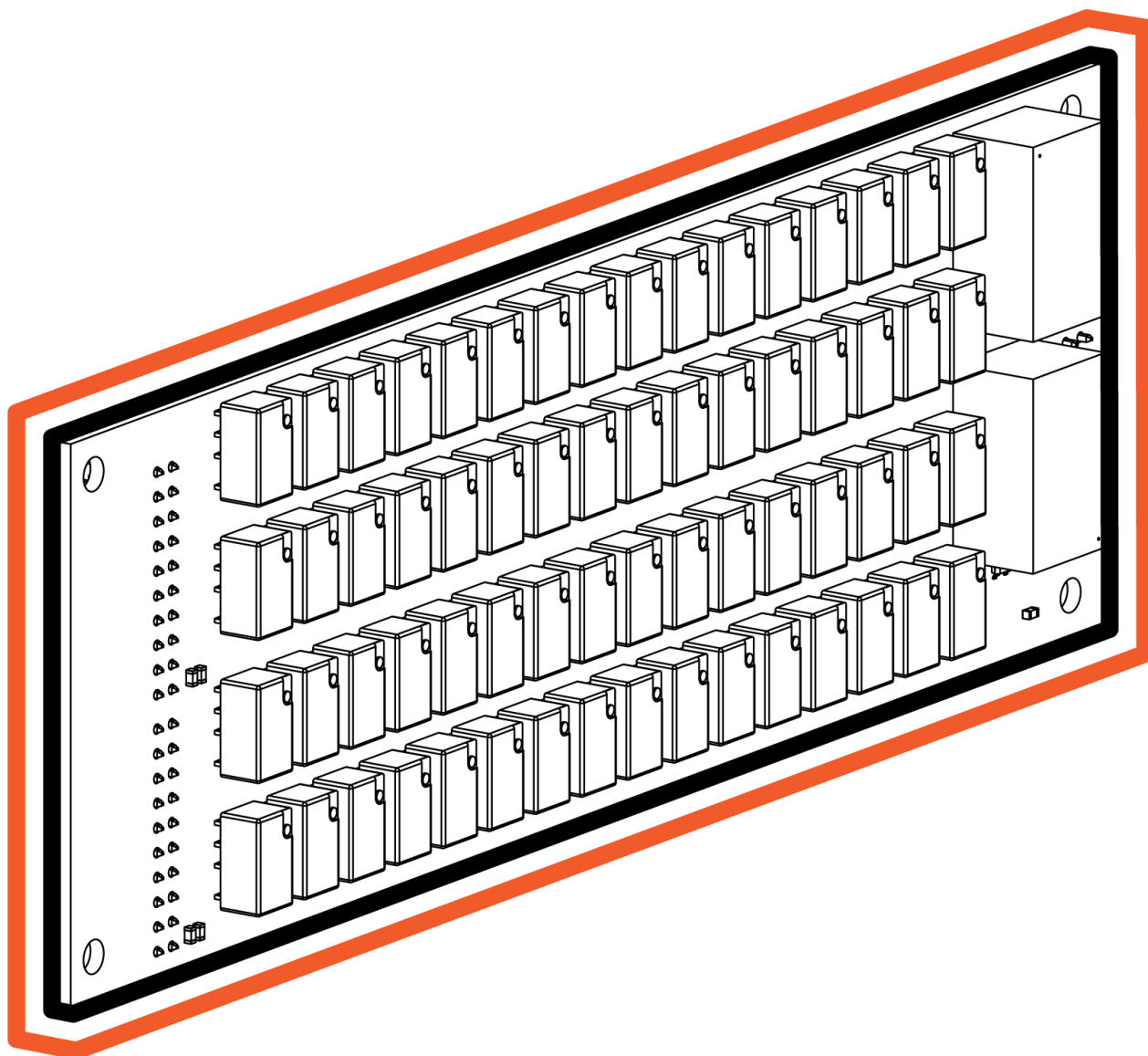


# DE9010 DATASHEET

SLSC FAULT INSERTION MODULE



 **DEICO**

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## DESCRIPTION

DE9010 SLSC Fault Insertion Module is an add-on board for particular SLSC modules; and it offers a set of relay channels to be used for simulating open, short and/or interrupted connections in hardware-in-the-loop (HIL) testing. One can connect input signals either to fault buses on the rear transition interface (RTI) or to external devices such as other test instruments and units under test (UUTs), and even other modules through the second connector on the front of the SLSC module.

The key features of DE9010 are listed below.

- ⇒ 16 differential or 32 single-ended channels
- ⇒ 220VDC, 250VAC switching voltage, 2A and 60W per channel
- ⇒ Flexibility in connection (i.e., either through RTI or the front panel of the SLSC module)

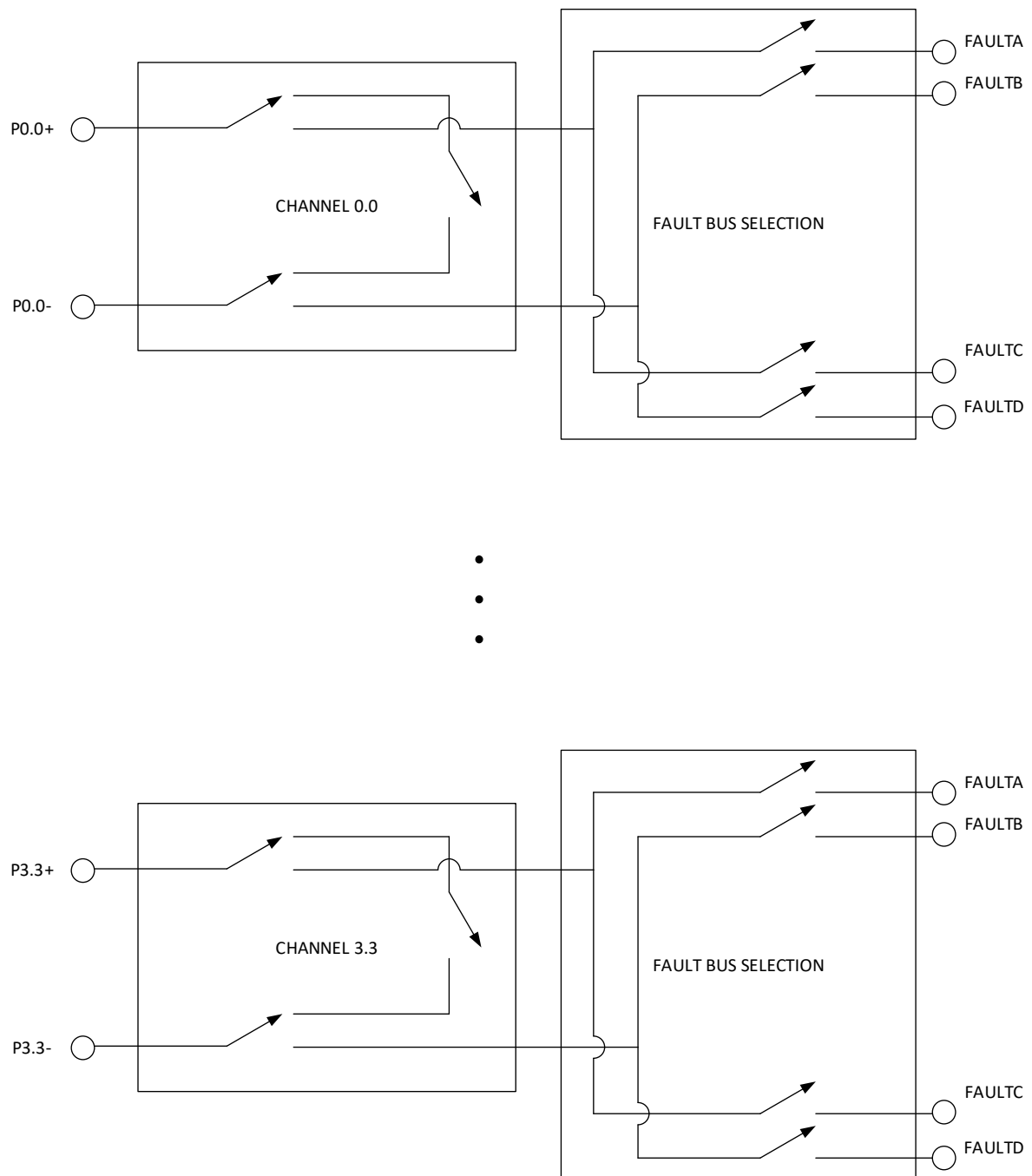
DE9010 is compatible with *IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001* standards.

Areas of application include:

- ⇒ Open-circuit simulation of the input signal pairs
- ⇒ Short-circuit simulation of the input signal pairs
- ⇒ Fault insertion

## HARDWARE OVERVIEW

### Circuitry



## Hardware Specifications

### Electrical

Specification	Minimum	Maximum	Notes
Switching Voltage	—	220VDC 250VAC	—
Rated Current	—	2A	2A@30VDC, 0.27A@220VDC 0.5A@125VAC
Switching Power	—	60W	—
Update Time	3ms	13ms	Operate time: 1ms typ. Release time: 3ms typ. Bounce time: 1ms typ.
Contact Resistance	50mΩ	150mΩ	Max: Longest path is chosen.
Lifetime	1x10 <sup>5</sup> operations 5x10 <sup>5</sup> operations	—	@60W applications @30W applications
Bandwidth	—	20MHz	—

### Physical

Specification	Typical
Dimensions	178.755mm x 57.811mm x 15.5mm

### Environmental

Specification	Condition	Value
Operating Humidity	Relative, non-condensing	10% - 90%
Storage Humidity	Relative, non-condensing	5% - 95%
Operating Temperature	Forced-air cooling from chassis	0°C - 40°C
Storage Temperature	Non-operational	-40°C - 85°C

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## CONFIGURATION

DE9010 is to be managed through the module that it is connected. It has no direct control interface for configuration.

## SAFETY GUIDELINES



**Caution** Do not operate the DE9010 in a manner not specified in this document. Product misuse can result in a hazard. You can compromise the safety protection built into the product if the product is damaged in any way. If the product is damaged, return it for repair.

## COMPATIBILITY GUIDELINES

### Electromagnetic Compatibility Guidelines

This product was tested and complies with the regulatory requirements and limits for electromagnetic compatibility (EMC). These requirements and limits provide reasonable protection against harmful interference when the product is operated in the intended operational electromagnetic environment.

This product is intended for use in industrial locations. However, harmful interference may occur in some installations, if the product is connected to a peripheral device or test object, or if the product is used in residential or commercial areas. To minimize interference with radio and television reception and prevent unacceptable performance degradation, install and use this product in strict accordance with the instructions specified in the product documentation.

Furthermore, any changes or modifications to the product not expressly approved by DEICO could void your authority to operate it under your local regulatory rules.



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