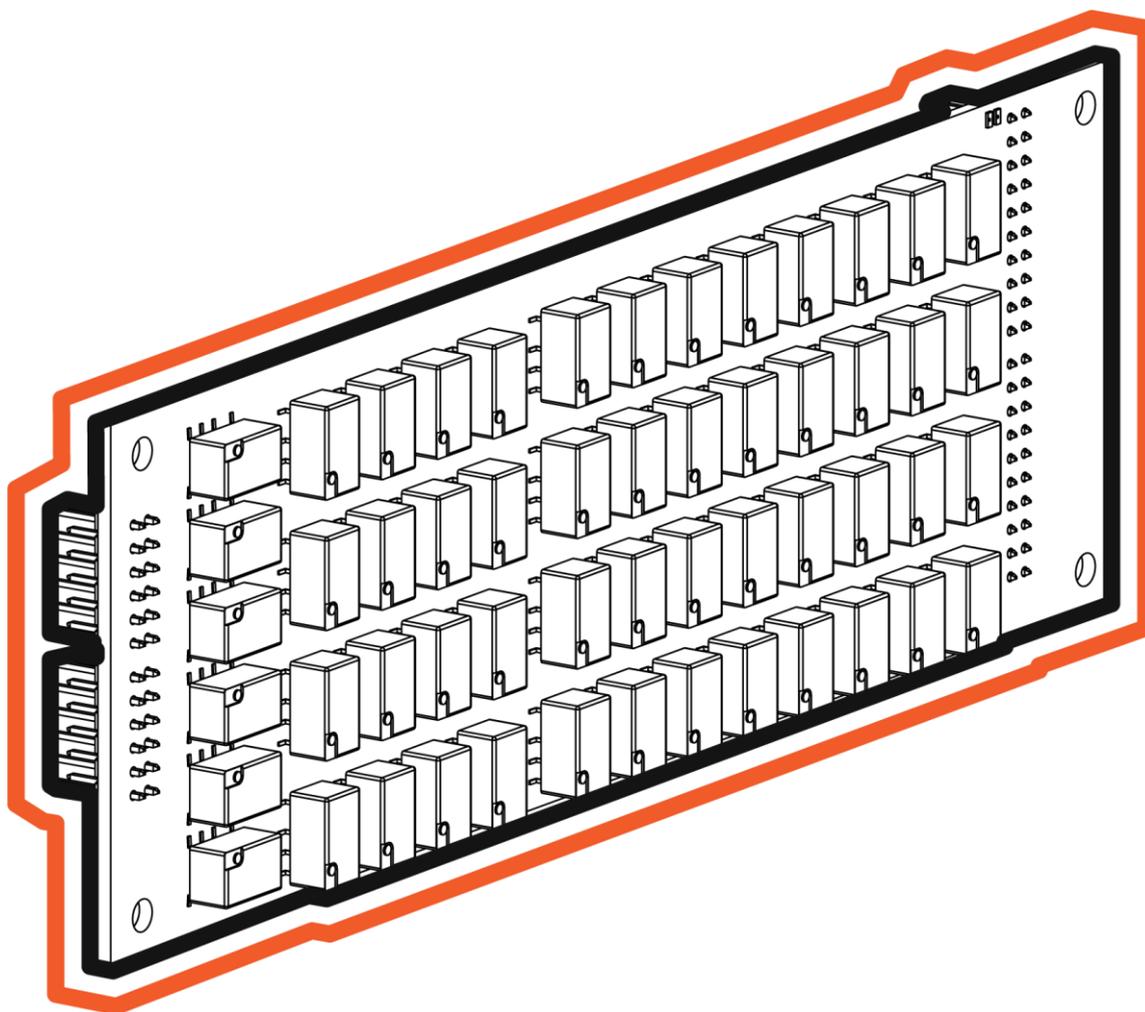


# DE9002 DATASHEET

SLSC INSTRUMENT EXPANSION MODULE



 **DEICO**

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## DESCRIPTION

The main function of the DE9002 SLSC Instrument Expansion Module is to multiplex the signals on any DEICO SLSC Card on the instrument buses. DE9002 can be easily mounted to any DEICO SLSC module with a plugin module shot. It provides instrument connection capabilities with 32 single-ended or 16 differential channels. In addition, each instrument bus signal has a GND connection relay for single-ended measurement. SLSC Instrument Expansion Module directs the base cards' test signals to instrument buses. It is possible to connect two instrument buses to two different instrument devices.

The general features of DE9002 are listed below:

- ⇒ 16 differential or 32 single-ended channels
- ⇒ 2 Instrument bus connections
- ⇒ Independent channel configurations
- ⇒ 220VDC, 250VAC switching voltage, 2A rated current per channel
- ⇒ 60W switching power per channel

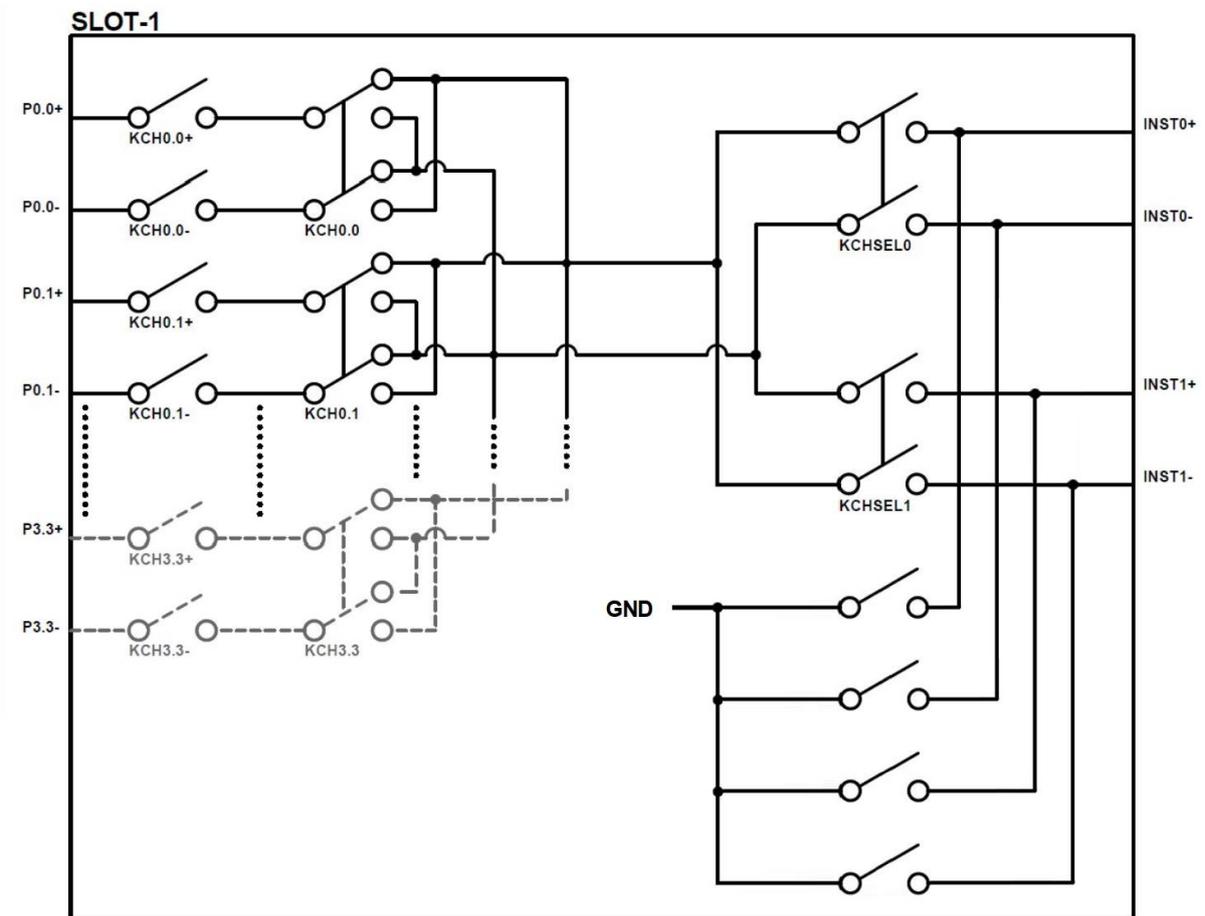
DE9002 is compatible with *IEC 60068-2-1/ IEC 60068-2-2/ IEC 60068-2-78/ IEC 60068-2-27/ IEC 60068-2-64/ EN 61326 (IEC 61326) / EN 55011 (CISPR 11) / AS/NZS CISPR 11/ FCC 47 CFR Part 15B/ ICES-001* standards.

Areas of application include:

- ⇒ HIL Testing
- ⇒ Signal Routing
- ⇒ Signal Conditioning

## 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

DE9002 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 DE9002 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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