

# Signal Isolation Module - 8 Ch

innova.no

Part number: 3809100

The Innova Signal Isolation Module - 8 Ch provides the possibility to galvanically isolate signals and power outputs without affecting the signal integrity. It is designed to operate in pressurized environments to 4000 msw.

The main function is to provide a larger system the functionality to galvanically isolate channels individually and effectively. The design allows the unit to be installed in pressurized environment in oil filled enclosures.

The board enhances fault-finding capabilities during subsea operations with this unique I/O channel isolation feature. This invaluable functionality allows users to swiftly identify and address ground faults in external I/O units, ensuring seamless maintenance and optimal system performance.

## Key features

- 8x Isolated channels
- Short circuit detection
- Input protection
- Load voltage range 12-24 VDC

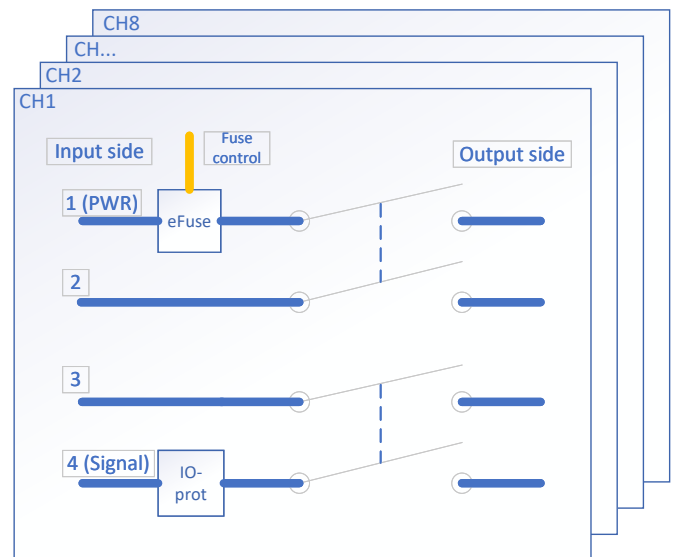
Remote control is possible via Modbus RTU (RS485 or RS485).

Several units can be controlled over a single RS-485 network by daisy chaining feature.

## PHYSICAL IO CONFIGURATION

8x Relay channel/port

- Each channel is 4 pole
- (1) PWR: One lane is protected with electronic fuse.
  - Maximum input/output voltage: 28 VDC
  - Current limit: 2 A for oil filled systems, 1 A in air-filled enclosed spaces.
- (4) One lane with input protection, intended for analogue signals. (Maximum current 30 mA)
- (2 &3) Two lanes without any protection. (Rated current 2 A)
- Each channel will detect fault from protection circuits.
- Each channel can be disabled and isolated individually.
- Each channel will automatically isolate if a short or fault is detected.



## SIZE AND MOUNTING INTERFACE

Size: 136 x 86 x 15 mm

Mounting: 6 x M3 holes

## ENVIRONMENTAL

Pressure: 400 bar / 4000 m water depth

Temperature: -20 - 50°C

## TERMINALS / CONNECTORS

Power input: 43025-0400 connector

RS232: Molex 206461-0800 connector

RS485: Molex 206461-0800 connector

8x Relay channels: Molex 206461-0800 connectors

## SUPPLY

Voltage: 24 VDC (10 to 30 V)

Idle current: 20 mA @ 24 V

Supply monitoring

- Input voltage
- Short circuit detection for each channel.

## COMMUNICATION

1x RS232

1x RS485

Protocol for both interfaces: Modbus RTU