



# Signal Isolation Module - 8 Ch V0

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 to 24 VDC

Remote control is possible via Modbus RTU (RS485 or RS232).

Several units can be controlled over a single RS485 network by daisy chaining feature.

## New version available (3809101) recommended for new design

• This version of the board offers higher current limit at the cost of less input and output protection in addition to more wiring.

#### TECHNICAL DATA

8x Relay channel/port

- Each channel has 4 poles
- (1) PWR: One lane is protected with an 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 faults from protection circuits.
- Each channel can be disabled and isolated individually.
- Each channel will automatically isolate if a short or fault is detected.

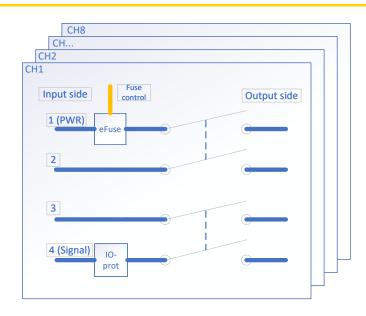
#### SIZE AND MOUNTING INTERFACE

Size (L x W x H): 136 mm x 86 mm x 15 mm

Mounting: 6 x M3 holes

#### **ENVIRONMENTAL**

Pressure: 4000 msw
Temperature: - 20°C to + 50°C



#### TERMINALS / CONNECTORS

Power input: 43025-0400

RS232: Molex 206461-0800 RS485: Molex 206461-0800 8x Relay channels: Molex 206461-0800

#### **SUPPLY**

Voltage: 24 VDC (10 to 30 VDC) Idle current: 20 mA @ 24 VDC

Supply monitoring
Input voltage

• Short circuit detection for each channel.

#### COMMUNICATION

1x RS232 1x RS485

Protocol for both interfaces: Modbus RTU