



4-20mA Input / Output Module with Isolator

EV-IO-420

Part no. F16-82255

General Description

EV-IO-420 is a 4-20mA Input / Output module, with integral -ve line Short circuit isolator compatible with Evolution analogue addressable system devices.

The 4-20mA input can be configured to operate in Sink or Source mode.

The Module includes setting options for a normally closed contact input and Fail Safe mode for Door release requirement.

LEDs are provided to indicate 4-20mA Input, Input & Output active, Fault and Isolator Open.

Device address may be set using EV-AD2-EXT Hand held programmer.

The Short Circuit Isolator will protect the system, whilst allowing the device to continue communication from the opposite side. The isolator will self-reset when the fault clears.

The following resistors are required for Fault and Alarm monitoring:

- EOL = 10k Ohm
- Alarm = 470 / 680 Ohm

Approvals

Test Standards	EN54-17: 2005 / AC: 2007 EN54-18: 2005 / AC: 2007
CPR Certificate	0359-CPR-00641
DoP Number	00641

Data

Operating loop voltage	20 to 38 Vdc
Quiescent current	630 μ A
Alarm current	7.8 mA
Current in short circuit	15 mA
External PSU for 4-20 mA operation	19.2 to 28.8 Vdc
Inputs	1 x 4-20 mA 1 x Class B
Output relay contact rating	1 x 5 Amps @ 240 Vac or 5 Amps @ 30 Vdc
Operating temperature	-10°C to +55°C
Storage temperature	-25°C to +65°C
Relative humidity	< RH 95% (Non-condensing)
Cable terminals	0.75 to 2.5 mm ²
Material	PC/ABS
Weight	450 g

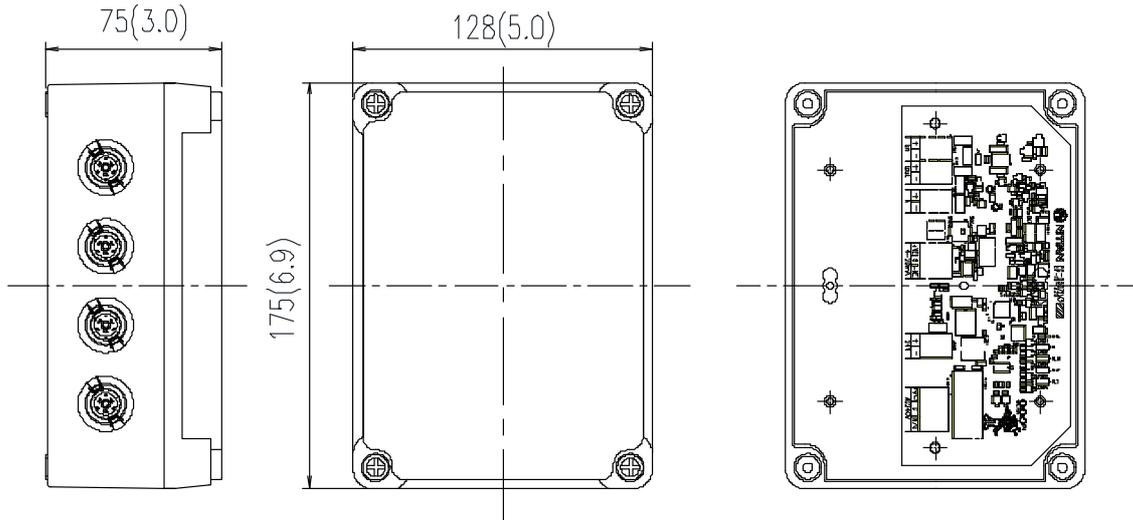
Short Circuit Isolator

Minimum sw open voltage (V _{so min})	11 Vdc
Maximum sw open voltage (V _{so max})	14 Vdc
Minimum sw close voltage (V _{sc min})	3 Vdc
Maximum sw close voltage (V _{sc max})	10 Vdc
Maximum line current (I _{c max})	500 mA
Maximum switching current (I _{s max})	1500 mA
Maximum leakage current (I _{l max})	15 mA
Maximum switch resistance (Z _{c max})	150 m Ω

All wiring must conform to the current edition of IEE Wiring regulations and BS5839 Part 1, or Local National Wiring regulations.

All loop Cable Screens shall be connected together, but must be Isolated from Ground. Cable Screens shall be connected to Earth Ground within the Control Panel ONLY.

Dimensions mm(in)



Connections

