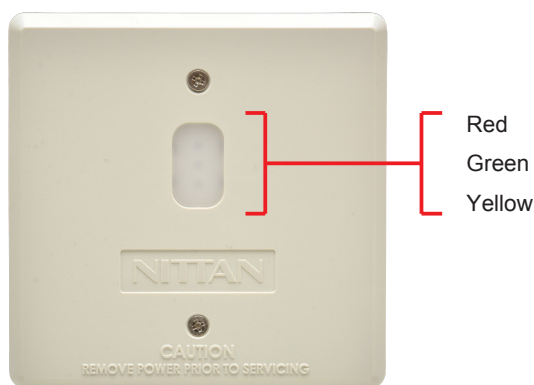


Description

EVA-DIP-SCI Dual Input Module with Short Circuit Isolator is intended for use in addressable two wire systems. The module monitors and transmits the status (normal, open, short, or active) of devices equipped with NC/NO dry contacts to a control panel. The initiating device circuit (IDC) can be wired on Class A (Style D & E) or Class B (Style B & C).

Indicator

This module has three colored LED to indicate the status of Input, Polling and SCI.



Input : Red
Polling : Green
SCI : Yellow

Features

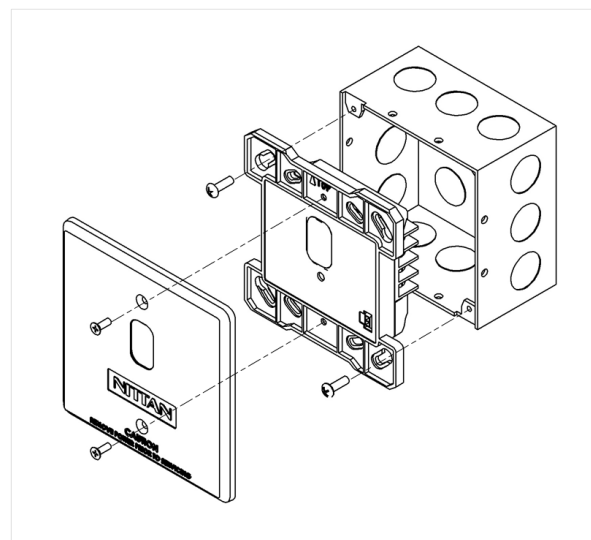
- Loop powered
- Provides two interfaces to NC/NO contact devices
- SCI function
- Supports Class A and Class B wiring
- SEMS screws for easy wiring
- Status indicator LED
- Address settable from 001 to 254 by a dedicated programmer
- Single loop address
- Low standby current (3mA)
- Mounts to optional 4-inch square junction box

SCI Function

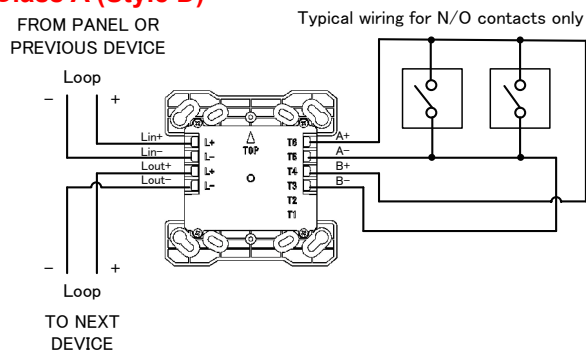
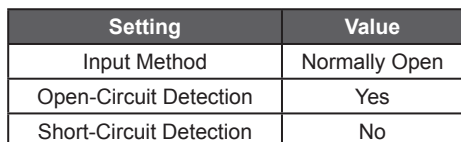
The module has a built-in short circuit isolator. SCI circuit prevents entire loop failure in the event of a short between L+ and L- on the loop.

Mounting

The module can be mounted directly to 4-inch square electrical box. The box must have a minimum depth of 2 1/8 inches.



Class B (Style B)



Setting	Value
Input Method	Normally Open
Open-Circuit Detection	Yes
Short-Circuit Detection	No

The diagram shows a 16-pin connector with pins labeled T1 through T16. The wiring is as follows:

- Pin 1 (T16):** Connected to the positive terminal of the 'FROM PANEL OR PREVIOUS DEVICE' loop.
- Pin 2 (T15):** Connected to the negative terminal of the 'FROM PANEL OR PREVIOUS DEVICE' loop.
- Pin 3 (T14):** Connected to the positive terminal of the 'TO NEXT DEVICE' loop.
- Pin 4 (T13):** Connected to the negative terminal of the 'TO NEXT DEVICE' loop.
- Pin 5 (T12):** Connected to the positive terminal of the 'FROM PANEL OR PREVIOUS DEVICE' loop.
- Pin 6 (T11):** Connected to the negative terminal of the 'FROM PANEL OR PREVIOUS DEVICE' loop.
- Pin 7 (T10):** Connected to the positive terminal of the 'TO NEXT DEVICE' loop.
- Pin 8 (T9):** Connected to the negative terminal of the 'TO NEXT DEVICE' loop.
- Pin 9 (T8):** Connected to the positive terminal of the 'FROM PANEL OR PREVIOUS DEVICE' loop.
- Pin 10 (T7):** Connected to the negative terminal of the 'FROM PANEL OR PREVIOUS DEVICE' loop.
- Pin 11 (T6):** Connected to the positive terminal of the 'TO NEXT DEVICE' loop.
- Pin 12 (T5):** Connected to the negative terminal of the 'TO NEXT DEVICE' loop.
- Pin 13 (T4):** Connected to the positive terminal of the 'FROM PANEL OR PREVIOUS DEVICE' loop.
- Pin 14 (T3):** Connected to the negative terminal of the 'FROM PANEL OR PREVIOUS DEVICE' loop.
- Pin 15 (T2):** Connected to the positive terminal of the 'TO NEXT DEVICE' loop.
- Pin 16 (T1):** Connected to the negative terminal of the 'TO NEXT DEVICE' loop.

The diagram also shows the typical wiring for N/O contacts only, with 2.2k Ω resistors and 10k Ω EOL resistors connected to the contacts.

*2.2kΩ resistors are not included in EVA-DIP-SCI.
 *Up to two N/O contact devices can be connected to one input line.
 *If more than three devices are connected and operate at the same time, a short circuit is detected.

Setting	Value
Input Method	Normally Open
Open-Circuit Detection	Yes
Short-Circuit Detection	Yes

FROM PANEL OR PREVIOUS DEVICE

Loop

Lin- Lin+ Lout+ Lout-

L- L+ L- L+

TO NEXT DEVICE

Typical wiring for N/O contacts only

2.2k Ω 2.2k Ω

A+ A- B+ B-

*2.2kΩ resistors are not included in EVA-DIP-SCI.
 *Up to two N/O contact devices can be connected to one input line.
 *If more than three devices are connected and operate at the same time, a short circuit is detected.

Setting	Value
Input Method	Normally Open
Open-Circuit Detection	Yes
Short-Circuit Detection	Yes

Typical wiring for N/C contacts only

The diagram shows a terminal block with two rows of terminals. The top row is labeled 'TOP' and contains terminals T8, T5, T4, T2, and T1. The bottom row contains terminals A+, A-, B+, B-, and B-. On the left, a 'Loop' with '-' and '+' terminals connects to Lin+, Lin-, Lout+, and Lout- terminals. On the right, two 'EOL 10k Ω' resistors are shown in series with the loop. The top EOL resistor is connected to A+ and A-, and the bottom EOL resistor is connected to B+ and B-. The loop continues from the bottom EOL resistor to the 'TO NEXT DEVICE' connection.

*Only one N/C contact device can be connected to one input line.
*If more than two N/C contact devices are connected, a short circuit is detected.

Setting	Value
Input Method	Normally Close
Open-Circuit Detection	No
Short-Circuit Detection	Yes

■ Subtype Setting

Sub-Type	Input Method	Open-Circuit Detection	Short-Circuit Detection	Class (Style)	Interrupt
1	Normally Open	Yes	No	Class B (Style B)	Disabled
2					Enabled
3				Class A (Style D)	Disabled
4					Enabled
5	Normally Close	No	Yes	Class B	Disabled
6					Enabled
7	Normally Open	Yes	Yes	Class B (Style C)	Disabled
8					Enabled
9				Class A (Style E)	Disabled
10					Enabled

The operation mode of the module can be switched by setting subtype as above. The subtype can be set through control panel programming.

■ Specifications

Specifications	EVA-DIP-SCI
SLC Applied Voltage	Rated Range 20 to 38 VDC
SLC Current Consumption	Standby 3.0 mA Activated 16.9 mA (max)
SLC Line Impedance	Up to 50 Ω
Number of IDC (Initiating Device Circuit)	1 x Class A or 2 x Class B
IDC Circuit Rating	15 VDC, 2.2 kΩ, 6.8 mA (max)
IDC Line Impedance	Up to 50 Ω
EOL Device	RE-10 k (10 kΩ, 1/4 W) (Included) 2.2 kΩ resistance required for each dry contact switch in subtype setting 7, 8, 9 and 10
SCI on Resistance	0.2 ohms (max)
SCI Fault Detection Threshold	10 V (min)
SCI Isolation Current	22 mA (max)
Visual Indicator (Status LED)	Polling LED (GREEN) Input LED (RED) SCI LED (YELLOW)
Ambient Installation Temperature	0 °C to 49 °C (32 °F to 120 °F)
Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Max Relative Humidity	Up to 93 % RH, non-condensing
Environment	Indoor dry use only
Max quantity per loop	127 units
Terminal	Screw AWG12 to 22
Address Setting	EVA-AD2 Address Programmer
Dimensions	H 124 mm x W 124 mm x D 34.5 mm (4.882" H x 4.882" W x 1.358" D) (Mount to a 4" square by 2 1/8" deep box)
Weight	Approximately 153 g
Conformity	UL864

Distributed By

All specifications are subject to change without any notice.
For more information, contact with NITTAN.

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