

Dual Relay Input Module



Introduction

The E-Plex 356DRIM is a flexible input and output module consisting of 2 normally open relay outputs and 4 digital inputs. Each digital input is configurable as either active high or active low through the E-Logic software.

For output relays, status LEDs are red when the relay is closed. For digital inputs, status LEDs indicate green for active high input, red for active low input.

Key Features

- 2 relay outputs.
- 4 inputs, configurable as active high or low.
- Output relay contacts rated for 10 amps AC or 5 amps DC.
- Status LEDs for inputs and outputs.
- Ideal for controlling generators.
- LEN value 12.

Design Specifications

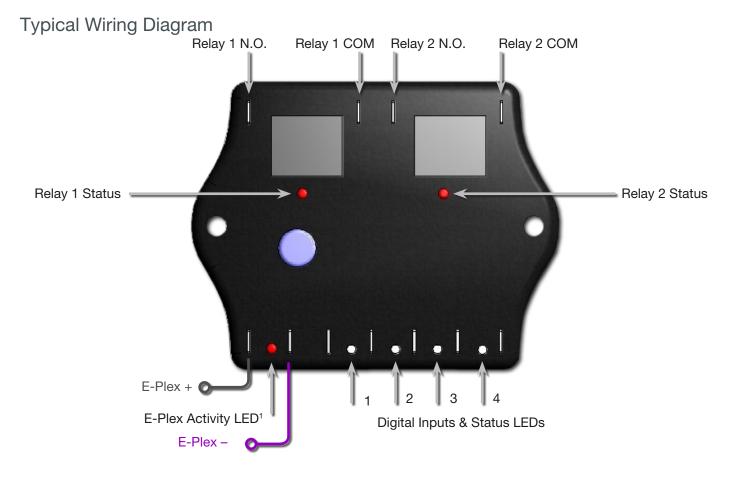
- Shock: Mil Std 202 Method 213 test condition.
- Vibration: Tested to Lloyds Register Approval Vibration Test 2.
- Moisture resistance: IP54.
- PCB characteristics: UL94V-0.
- Ignition protection: UL 1500 compliant.
- Operating Temperature: -40°C to 60°C.
- Storage Temperature: -40°C to 85°C.
- Operating Humidity: 0% to 100% (condensing).
- Weight: 4.8oz (136g).





Electrical Specifications

| Description | Minimum | Nominal | Maximum | Absolute Max (Surge) |
|---|------------------------|------------------|------------------------------|-------------------------|
| Voltage | 7 Volts DC | 12 / 24 Volts DC | 32 Volts DC | 45 Volts DC |
| Current | 20 milliAmps (idle) | — | 120 milliAmps (full load) | — |
| Input Low Threshold | 0 Volts | — | 0.6 Volts | — |
| Input High Threshold | 7 Volts | — | 30 Volts | — |
| Output Relay Contact Rating (120 / 240VAC) | _ | — | 10 Amps | — |
| Output Relay Contact Rating VDC | _ | — | 5 Amps | — |



Status LEDs:

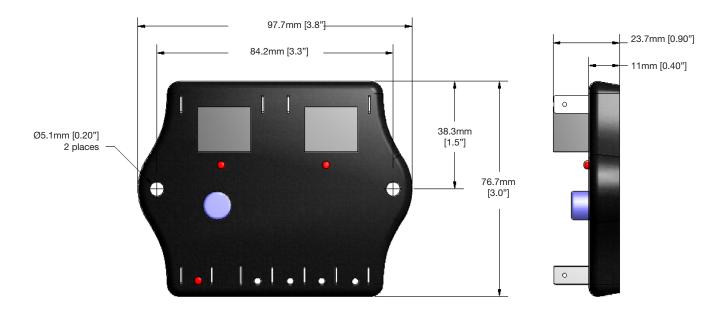
Relay 1 & 2: ON - relay is closed, OFF - relay is open. E-Plex Activity: ON, Blinking - module is responding, OFF - module is not responding. Digital Inputs 1-4: GREEN - input is high, RED - input is low.

NOTE: Do not use the V+ connection on this unit.





Dimensional Specifications



Mounting Specifications

Screw assembly to a flat mounting surface in 2 places, as shown in the illustration.

Mounting Instructions

Metric fasteners: Use M5 size screw, M5 split lock washer and M5 washer. Torque to 250~280 N-cm. Do not exceed this torque as it could cause damage to the electronics.

Imperial (English) fasteners: Use #10 size screw, #10 split lock washer, #10 washer. Torque to 20~22 in-lb. Do not exceed this torque as it could cause damage to the electronics.

Ordering Information

| Description | E-Plex Part Number | |
|--|------------------------|--|
| 356DRIM Series - Dual Relay Input Module | EP-SW-IO-4/2CH-356DRIM | |





52 - 54 Riverside, Sir Thomas Longley Road, Medway City Estate, Rochester, Kent ME2 4DP tel: +44 (0)1634 711622 fax: +44 (0)1634 290773

email: sales@e-plex.co web: www.e-plex.co

Important Notice: E-Plex Ltd. (E-Plex) reserves the right to make changes to or discontinue any product or service identified in this publication without notice. E-Plex advises its customers to obtain the latest version of the relevant information to verify, before placing any orders, that the information being relied upon is current. E-Plex assumes no responsibility for infringement of patents or rights of others based on E-Plex applications assistance or product specifications since E-Plex does not possess full access concerning the use or application of customers' products. E-Plex also assumes no responsibility for customers' products. E-Plex also



Dual Relay Input Module



Introduction

The E-Plex 356DRIM is a flexible input and output module consisting of 2 normally open relay outputs and 4 digital inputs. Each digital input is configurable as either active high or active low through the E-Logic software.

For output relays, status LEDs are red when the relay is closed. For digital inputs, status LEDs indicate green for active high input, red for active low input.

Key Features

- 2 relay outputs.
- 4 inputs, configurable as active high or low.
- Inputs isolated from E-Plex ground.
- Output relay contacts rated for 10 amps AC or 5 amps DC.
- Status LEDs for inputs and outputs.
- Ideal for controlling generators.
- LEN value 23 @12V.



Design Specifications

- PCB characteristics: UL94V-0.
- Operating Temperature: -20°C to 60°C.
- Storage Temperature: -40°C to 85°C.
- Operating Humidity: 0% to 95% (non-condensing).
- Weight: 188g.





Electrical Specifications

| Description | Minimum | Nominal | Maximum | Absolute Max (Surge) |
|--|-------------|-------------|-------------------|-------------------------|
| Voltage | 11 VDC | 12 / 24 VDC | 32 VDC | 45 VDC |
| Current 12V | 25mA (idle) | - | 230mA (full load) | — |
| Current 24V | 25mA (idle) | - | 110mA (full load) | - |
| Input Low Threshold | — | - | 2V | _ |
| Input High Threshold | 7V | - | - | - |
| Input Electrical isolation from E-Plex ground | — | - | 30VAC 35VDC | _ |
| Input Voltage range (relative to input common) | 0V | - | 32V | — |
| Output Relay Contact Rating (120 / 240VAC) | — | - | 10A | — |
| Output Relay Contact Rating VDC | — | - | 5A | _ |

Typical Wiring Diagram



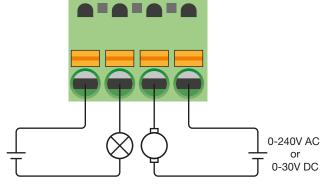
Status LEDs:

Relay 1 & 2: ON - relay is closed OFF - relay is open

E-Plex Activity: Blinking - module is responding OFF - module is not responding

Digital Inputs 1-4: All inputs are bi-colour Off - Input inactive GREEN - input is high RED - input is low

Relay 1 & 2 Configuration (Dinkle 2ESDSR-04P)



Recommended wire:

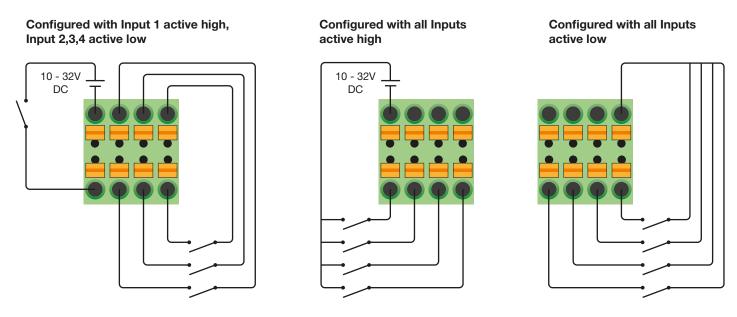
0.2 to 2.5mm2 solid or stranded wire. Insulation should be stripped back 8 to 9mm.





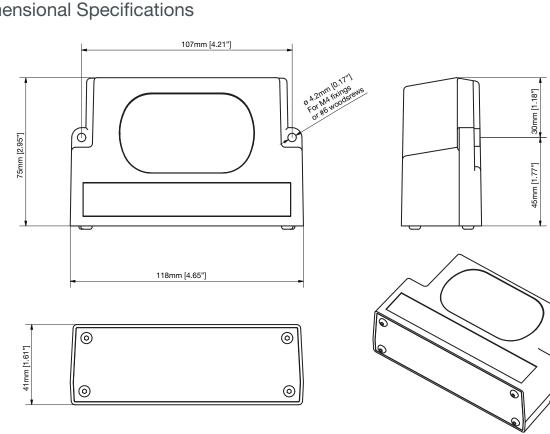
Digital Inputs 1-4 Configuration

(Dinkle 0156-2b08) All Input commons connected internally



Recommended Wire:

0.2 to 1mm² Solid wire, 0.2 to 1.5mm² Stranded wire, 0.25 to 0.5mm² If Ferrule used. Insulation should be stripped back 7 to 8mm.



Dimensional Specifications



Ordering Information

| Description | E-Plex Part Number |
|--|-------------------------|
| 356DRIM Series - Dual Relay Input Module | EP3-SW-IO-4/2CH-356DRIM |



52 - 54 Riverside, Sir Thomas Longley Road, Medway City Estate, Rochester, Kent ME2 4DP tel: +44 (0)1634 711622 fax: +44 (0)1634 290773

email: sales@e-plex.co web: www.e-plex.co

Important Notice: E-Plex Ltd. (E-Plex) reserves the right to make changes to or discontinue any product or service identified in this publication without notice. E-Plex advises its customers to obtain the latest version of the relevant information to verify, before placing any orders, that the information being relied upon is current. E-Plex assumes no responsibility for infringement of patents or rights of others based on E-Plex applications assistance or product specifications since E-Plex does not possess full access concerning the use or application of customers' products. E-Plex also assumes no responsibility for customers' product designs.