

# 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.

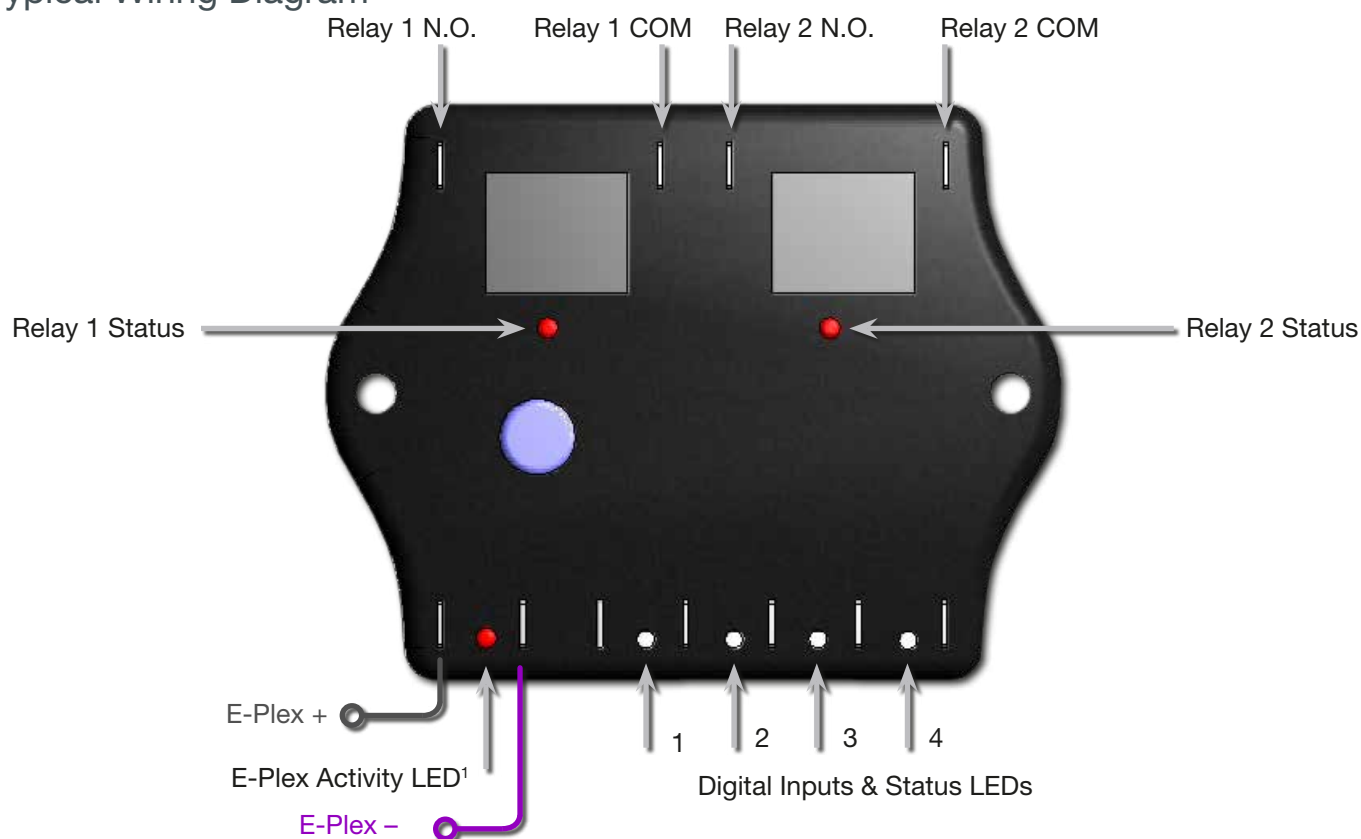
## Design Specifications

- 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	—

## Typical Wiring Diagram



### Status LEDs:

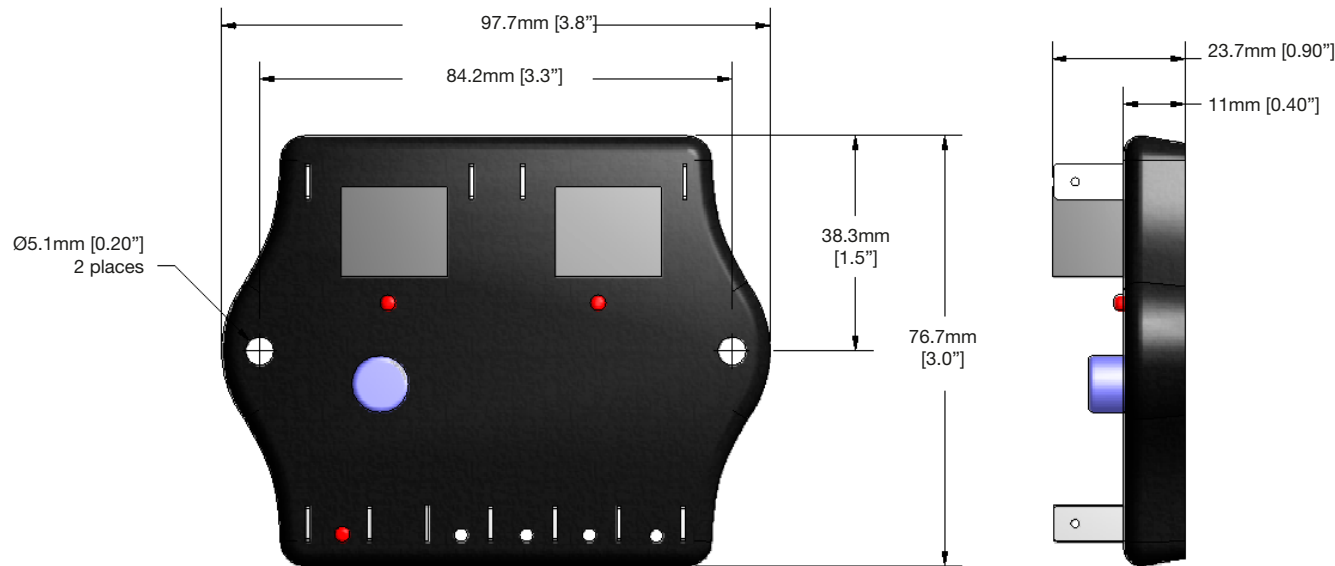
Relay 1 & 2: ON - relay is closed, OFF - relay is open.

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



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