FLEXEDGE® 8 Digital Input/ 8 Relay Output Module

RL RED LION®

FLEXEDGE® Intelligent Edge Automation Platform

The 8DI/8RO module is designed for use with the FlexEdge DA70 controller, and features 8 Digital Inputs and 8 Relay Outputs that can be used to monitor contact or sensor inputs and actuate relays, solenoids, PLC inputs, etc.

The Digital Inputs accept DC inputs or contact closures and are software configured for sink or source signals. Each input also offers its own selectable input filter, as well as high or low-active input setting.

- Eight (8) DC voltage inputs, Eight (8) Form A relay outputs
- Adds I/O capability to the DA70
- Offers complete isolation; inputs, power and Controller
- At-a-Glance module status indicator
- On-device wiring diagram
- Inputs independently software selectable for sink or source signals, high or low active states, and high or low frequency signals
- Ideal for data acquisition applications
- Configured using Crimson® software (version 3.2 or later)

UKCA   CE   c(UL)us LISTED IND.CONT. EQ. E317425   ABS TYPE APPROVED PRODUCT

Ordering Guide

Main Unit

Part Number	Description
DAM00I0DI0R00000	DA 8 Channel DI/ 8 Channel RO Module

Specifications

Power Requirements

Power is supplied by the DA host device.
Max Power: 2.0 W

LEDs

One LED indicator for each I/O point and a status LED.

Memory

Non-volatile memory retains all programmable parameters.

Digital Input

Software selectable for sink or source
Maximum voltage: +30 VDC, reverse polarity protected
Off Voltage: < 1.2 Volts
On Voltage: > 3.8 Volts
Input Impedance: Source Mode 10K ohms; Sink Mode 20K ohms
Input Frequency*:
    Software Filter selection on: 50 Hz
    Software Filter selection off: 300 Hz
    * Actual usable frequency limited by communication to
        external device.

Form A Relay Output

4 relays per module
Type: Normally Open
Contact Ratings:
    Per Relay: 0.5 Amps @ 30 VDC/30 VAC at 65 °C T_{AMB}
                2 Amps @ 30 VDC/30 VAC at 60 °C T_{AMB}
Life Expectancy: 100,000 cycles at max. load rating. (Decreasing
    load, increasing cycle time, and use of surge suppression such
    as RC snubbers increases life expectancy.)

Isolation Level

500 Vrms @ 50/60 Hz for 1 minute between the following:
    Inputs
    Outputs
    Host Controller

Communications

Provided by the DA70 Controller

Environmental Conditions

Operating Temperature Range: -40 to 75 °C T_{AMB}
Storage Temperature Range: -40 to 80 °C T_{AMB}
Vibration to IEC 60068-2-6: Operational 5-500 Hz, 2 g
Shock to IEC 60068-2-27: Operational 15 g
Operating and Storage Humidity: 0 to 95% max. RH non-
    condensing
Altitude: Up to 2000 meters
Installation Category II, Pollution Degree 2 as defined in IEC/EN
    60664-1.

Certification & Compliance

CE Approved
    EN 61326-1 Immunity to Industrial Locations
    Emission CISPR 11 Class A
    IEC/EN 61010-1
    RoHS Compliant
UL Hazardous: File #E317425
Rugged IP30 enclosure
ABS Type Approval for Shipboard Applications

Connections

Wire Strip Length: 0.3" (7.5 mm)
Wire Gauge Capacity: 14 to 24 AWG (2.08 to 0.20 mm^2) copper
    wire only

Construction

Polycarbonate enclosure with IP30 rating. For use only in an
    approved enclosure.
Weight: 14.0 oz (397 g)

Mounting

DIN Rail: Attaches to standard "T" profile DIN rail according to
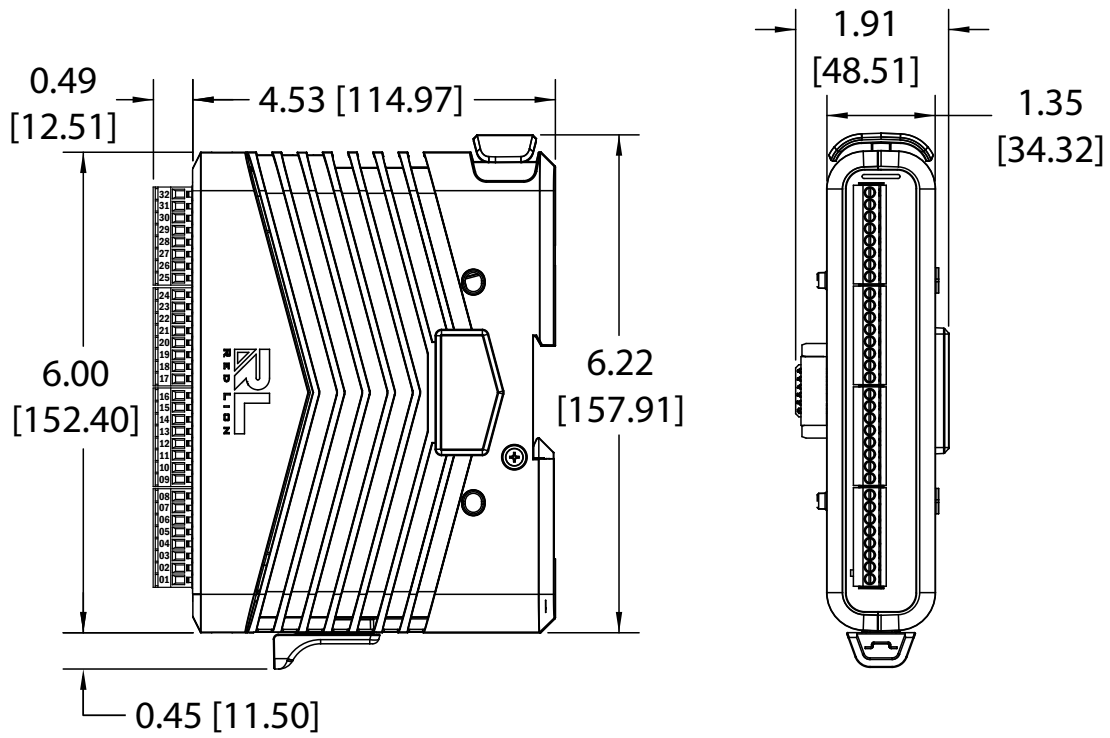   EN50022 - 35 x 7.5 and 35 x 15

Warranty

3 years on design and manufacturing defects.

Specifications are subject to change.
Visit www.redlion.net for more information.

Dimensions In inches [mm]

0.49
[12.51]

4.53 [114.97]

6.00
[152.40]

6.22
[157.91]

0.45 [11.50]

1.91
[48.51]

1.35
[34.32]