ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

RD-5A

RD-Series Redundant ORing Diode Module



RoHS Compliant

MAKE IN INDIA

Overview

Diode-based decoupling of DC power supplies is a critical requirement in control systems that demand high operational reliability. In such applications, redundant power supplies are used to ensure continuous operation even if one supply fails. Redundancy is achieved by connecting two DC power supplies in parallel while electrically isolating them from each other. This decoupling prevents a fault or voltage collapse in one supply from propagating to the other, thereby maintaining uninterrupted power to the load.

A Redundant ORing Diode Module performs this decoupling by using ORing diodes to isolate the outputs of the two supplies. In normal operation, both supplies share load current as determined by their output characteristics. If one supply fails or its output voltage drops below the acceptable threshold, the ORing diode immediately blocks reverse current flow and disconnects the unhealthy supply from the load. The healthy supply continues to deliver power without interruption, ensuring that system uptime is maintained. This method significantly improves the availability and reliability of the DC power system.

In addition to passive diode ORing, the module incorporates active monitoring of both input power supplies. It continuously checks for undervoltage or failure conditions and provides a potential-free relay changeover contact to signal the loss of either or both input sources. This status indication can be used for alarms, system diagnostics, or automated switching logic in PLC- or SCADA-based systems.

The ORing Diode Modules are maintenance-free, robust, and cost-effective components that enhance the resilience of DC control and instrumentation power systems. The unit is constructed in a slim and rugged ABS enclosure and is designed for easy, reliable installation in DIN-rail mounting arrangements commonly used in industrial panels.

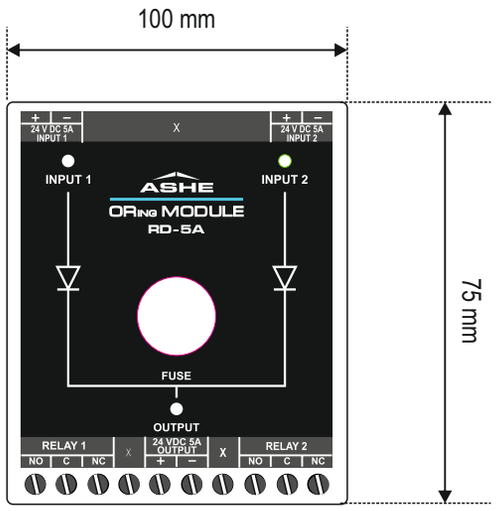
Specifications

Model	ASHE RD-5A
Type	Redundant ORing Diode Module
Input Signal 1	24 VDC / 110 VDC / 220 VDC (to be specified).
Input Signal 2	24 VDC / 110 VDC / 220 VDC (to be specified).
Output Signal	24 VDC / 110 VDC / 220 VDC.
Load Current	5 Ampere
Control Output	Two Relay change over contacts.
Contact Rating	10A @250 VAC
Indications	Green LEDs for Input Voltages Red LED for Output Voltage
Connection Types	Screw
Dimensions	75 x 55 x 110 mm [H x W x D]
Execution	DIN Rail / Wall mounting.
Enclosure	Industrial grade ABS
Weight	0.30 kg
Operating Temperature	0 to 70°C.

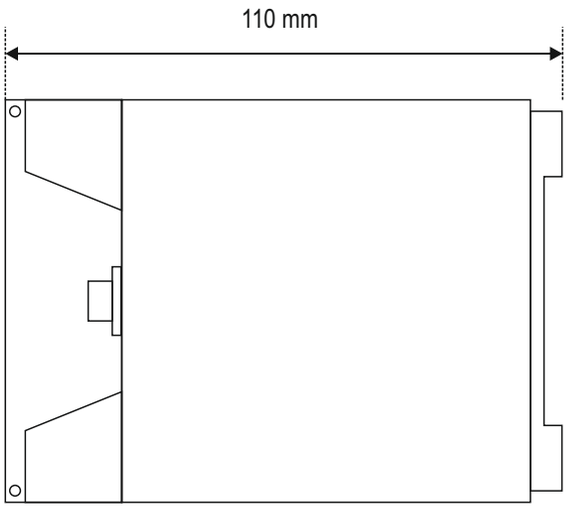
Features

- DC Power Supply Input Signals 24 VDC / 110 VDC / 220 VDC
- Output Signal 24 VDC / 110 VDC / 220 VDC
- Contact Rating : 10A @230 VAC (Resistive loads)
- Load Rating of 5 Ampere (continuous)
- High output load regulation
- LED indications for Input signals and Output signal
- Rugged, industrial grade ABS enclosure
- High Noise immunity
- DIN Rail / Wall mounting execution
- High efficiency and high reliability
- Dual Redundancy option
- Proven track record of successful site installations

Dimensional Diagram



FRONT VIEW



SIDE VIEW

How To Order

	REDUNDANT ORING DIODE MODULE	**RD-**				
	configuration and add-on options					
1	**CURRENT RATING**					
▸	5 Ampere		5			
2	**INPUT VOLTAGES**					
▸	24 VDC			A		
3	**EXECUTION**					
▸	ABS Enclosure				A	

Our Other Products



FLOW TOTALIZER



SIGNAL ISOLATORS & TRANSDUCERS



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FLAMEPROOF INSTRUMENTS



STATIC POWER SWITCHES

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