

## Redundant ORing Diode Module

### OVERVIEW

Diode protection for a DC power supply is a critical component of a control system.

A Redundant power supply is necessary in applications with the highest demands on operational reliability. They ensure that the failure of one power supply unit does not result in system downtime. A redundant system is the result of the parallel connection of two power supply units that are decoupled from one another. This decoupling via an active redundancy module ensures the high availability and productivity of the power system.

A redundancy Diode module is used to decouple two power supplies to provide an uninterrupted power supply in the event of failure of any one Power Supply unit. A Redundant power supply ensures that the failure of one power supply unit does not result in system downtime. ORing Diodes are used to connect multiple supplies together to enhance system reliability. A diode also allows a supply to disconnect if it has insufficient output voltage.

The ORing Diode Module has the additional function of monitoring the healthy status of the two power supply inputs connected to it, and provide a potential free Relay changeover contact in the event of failure of any one or both of the Input power supplies.

The Diode ORing Modules are maintenance free and cost effective and provide excellent reliability to a power supply system.

The instrument is offered in a slim and rugged ABS enclosure in DIN Rail mounting execution.



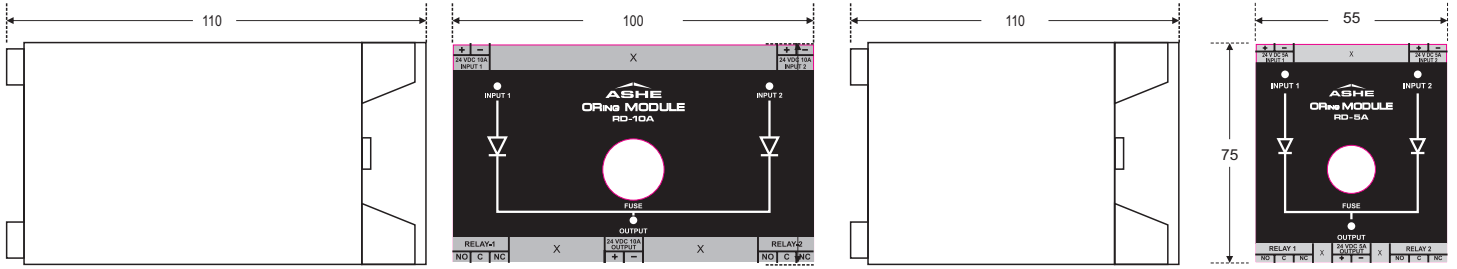
### SPECIFICATIONS

<b>Model</b>	ASHE RD-5A ASHE RD-10A
<b>Type</b>	Redundant ORing Diode Module
<b>Input Signal 1</b>	24 VDC / 5A 24 VDC / 10A
<b>Input Signal 2</b>	24 VDC / 5A 24 VDC / 10A
<b>Output Signal</b>	24 VDC / 5A 24 VDC / 10A
<b>Control Output</b>	Two Relay change over contacts
<b>Load Current</b>	5 Ampere 10 Ampere
<b>Indications</b>	Green LED for Input Red LED for Output
<b>Dimensions</b>	75 x 55 x 110 mm [H x W x D] 75 x 100 x 110 mm [H x W x D]
<b>Execution</b>	DIN Rail / Wall mounting.
<b>Enclosure</b>	Industrial grade ABS
<b>Weight</b>	0.30 kgs
<b>Operating Temperature</b>	0 to 70°C

### FEATURES

- DC Power Supply Input Signal 24 VDC - 5A / 10A
- Output Signal 24 VDC - 5A / 10A
- Contact Rating : 10A @230 V AC (Resistive loads)
- Load Rating 5 Ampere or 10 Ampere
- High output load regulation
- LED indications for Inputs signal and Output signal
- Rugged, industrial grade ABS enclosure
- High Noise immunity
- DIN Rail / Wall mounting Execution
- High efficiency and high reliability
- Dual Redundancy option
- Fuse Protection for High Current

**DIMENSIONAL DIAGRAM**



**HOW TO ORDER**

REDUNDANT ORING DIODE MODULE	RD				
<b>CONFIGURATION AND ADD-ON OPTIONS</b>					
<b>1 CURRENT RATING</b>					
▶ 5 Ampere			5		
▶ 10 Ampere			10		
<b>2 CONTROL RELAY OUTPUT</b>					
▶ No Relay Output				0	
▶ Two Relay Output				2	
<b>3 INPUT SIGNAL</b>					
▶ 24 VDC - 5A / 10A - 1					1
▶ 24 VDC - 5A / 10A - 2					2
<b>4 EXECUTION</b>					
▶ DIN Rail Mounting (Polycarbonate enclosure / Metal enclosure)					D

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Designed and Manufactured by :

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