

## 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 and metal enclosure in DIN Rail mounting execution.



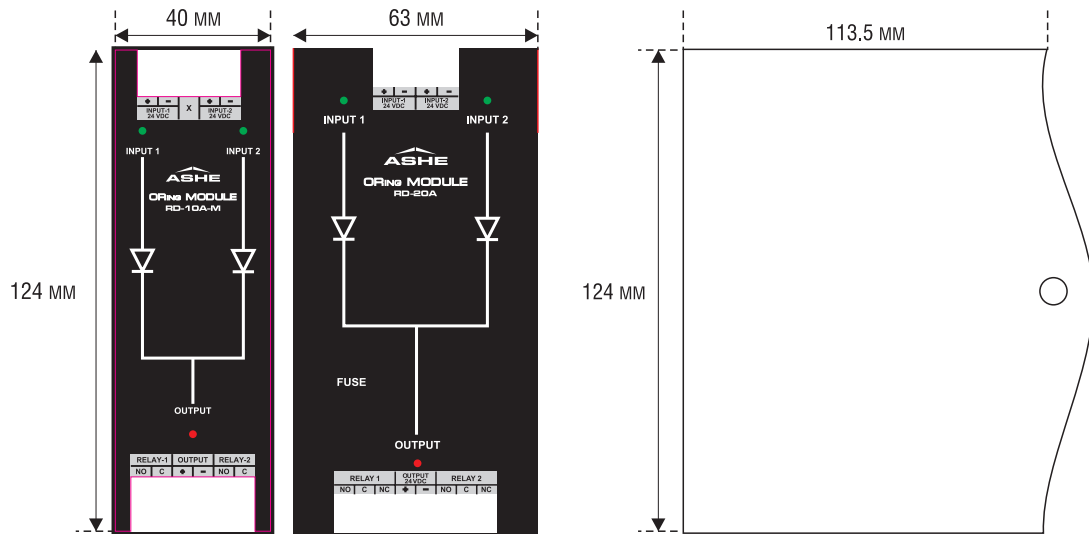
## SPECIFICATIONS

<b>Model</b>	ASHE RD-10A ASHE RD-20A
<b>Type</b>	Redundant ORing Diode Module
<b>Input Current Range</b>	10 ADC 20 ADC (pre-specified)
<b>Input Voltage Range</b>	12 VDC 24 VDC 48 VDC (pre-specified)
<b>Output Current</b>	10 ADC 20 ADC (pre-specified)
<b>Input Voltage Range</b>	12 VDC 24 VDC 48 VDC (pre-specified)
<b>Control Output</b>	Two Relay change over contacts
<b>Indications</b>	Green LED for Input Red LED for Output
<b>Dimensions</b>	124 x 40 x 112.5 mm [H x W x D] 124 x 63 x 113.5 mm [H x W x D]
<b>Execution</b>	DIN Rail / Wall mounting.
<b>Enclosure</b>	Industrial grade metal enclosure
<b>Weight</b>	Approximately 1 Kg
<b>Operating Temperature</b>	0 to 70°C

## FEATURES

- DC Power Supply Input Current & Voltage options
- Output Current & Voltage options
- Load Rating 10 Ampere or 20 Ampere
- High output load regulation
- LED indications for Inputs signal and Output signal
- Rugged, industrial grade ABS and metal 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				
Configuration and add-on options						
<b>1 INPUT CURRENT</b>						
▶ 10 Ampere DC			10			
▶ 20 Ampere DC			20			
<b>2 INPUT VOLTAGE</b>						
▶ 12 VDC				D1		
▶ 24 VDC				D2		
▶ 48 VDC				D3		
▶ Other to be specified				Y		
<b>3 CONTROL RELAY OUTPUT</b>						
▶ No Relay Output					0	
▶ Two Relay Output					2	
<b>4 EXECUTION</b>						
▶ DIN Rail Mounting (Polycarbonate enclosure / Metal enclosure)						D

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Designed and Manufactured by :

**ASHE CONTROLS PRIVATE LIMITED**

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