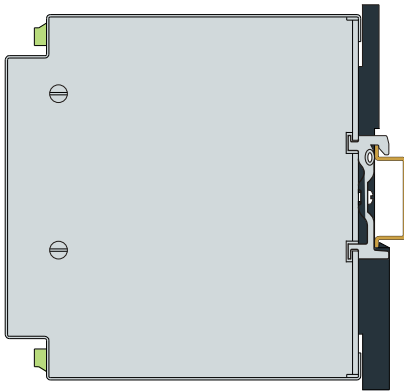
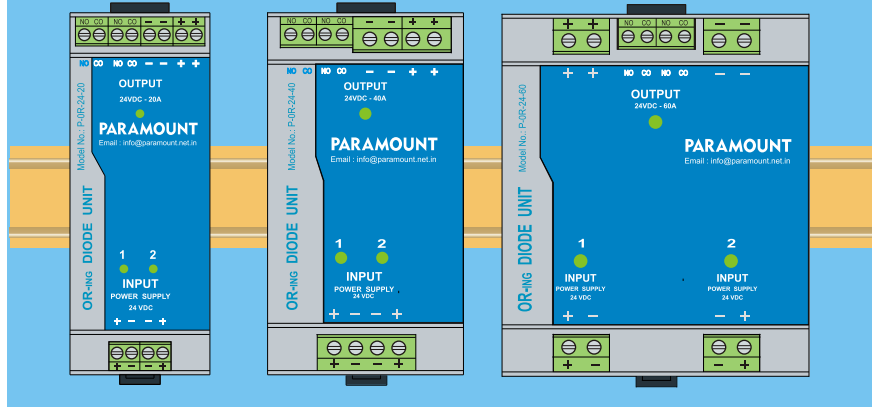


PARAMOUNT

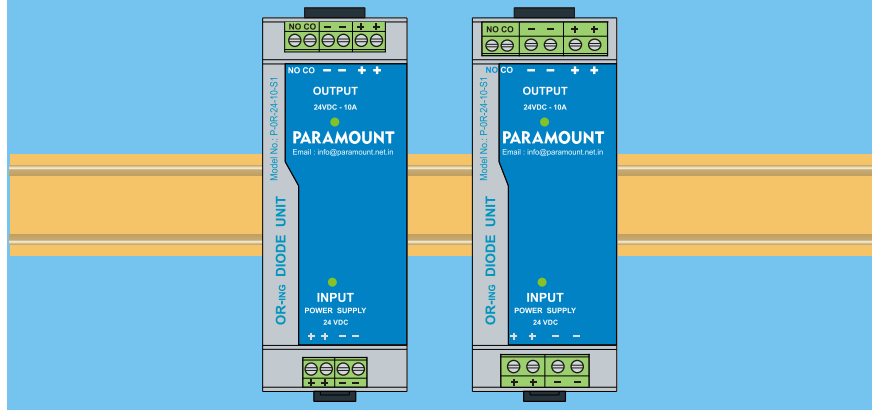
OR-ING DIODE UNIT



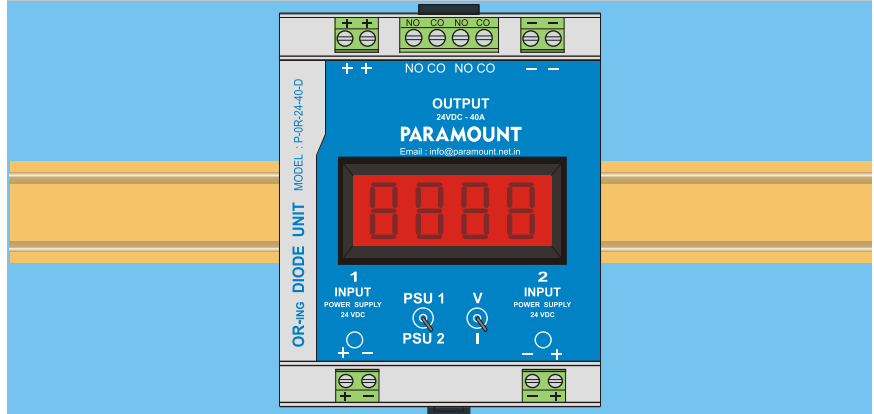
P-OR-24-5/10/20/30/40/60/70



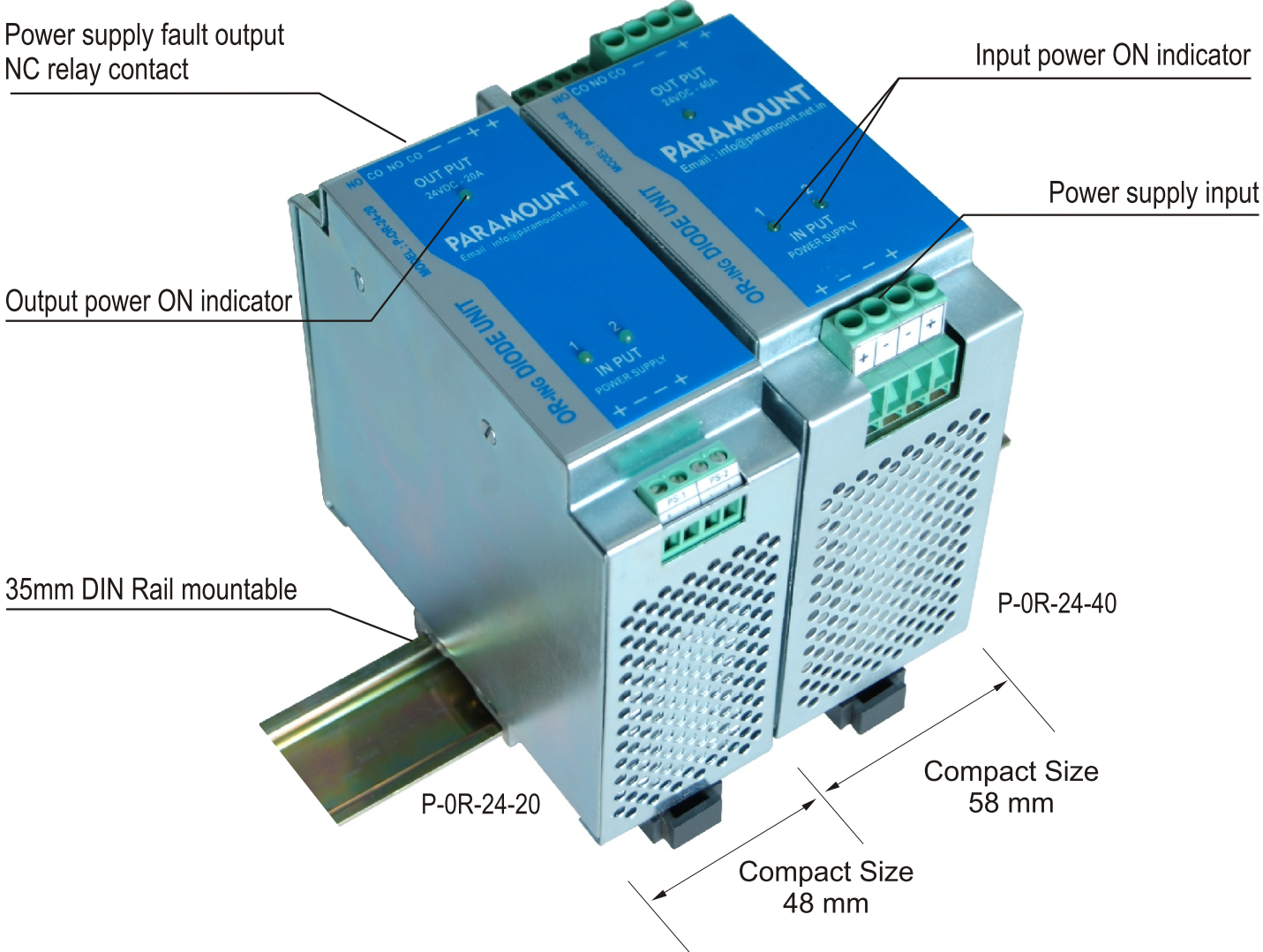
P-OR-24-5/10/20-S1



P-OR-24-40D



OR-ING DIODE UNIT



OR-ING DIODE UNIT

Model No.: P-0R-24-05-S5

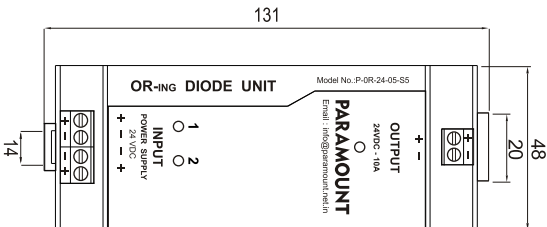
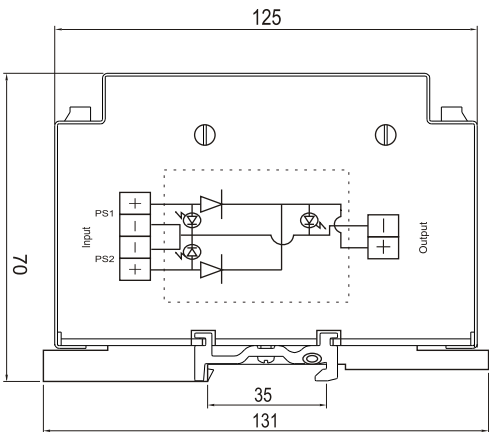
Model No.: P-0R-24-10-S5



GENERAL INFORMATION

The OR-ING unit combines two or more power sources to create redundant power source preserving the output power supply in case one of the input source fails. In this situation of input power failure, the next power supply feeds the power quickly to prevent the system bus voltage from failing & bus collapse.

DIMENSIONS



SPECIFICATION

Input - 24V DC supply - 2nos. (Standard)

Output Current -

Model No.	Current Rating	Voltage
P-0R-24-05-S5	5 Amps	24 VDC
P-0R-24-10-S5	10 Amps	24 VDC

Overload - 10% Max.

Drop - 0.65 volts max DC at 5A / 10A

Di-Electric Strength - 1KV AC
(between Input / Output to body)

Insulation Resistance - 100 Mega ohm @ 500 VDC min.
(between Input / Output to body)

Working Temperature - 55° C Ambient max.

Indicators :

Input Power Supply - 1 green LED for each power supply

Output Power Supply - 1 green LED for output

Conductor Cross Section - 0.20 - 4.0 mm² solid
0.20 - 2.5 mm² stranded
AWG 24 - 12

Dimension (LxBxH)mm - 131x48x70

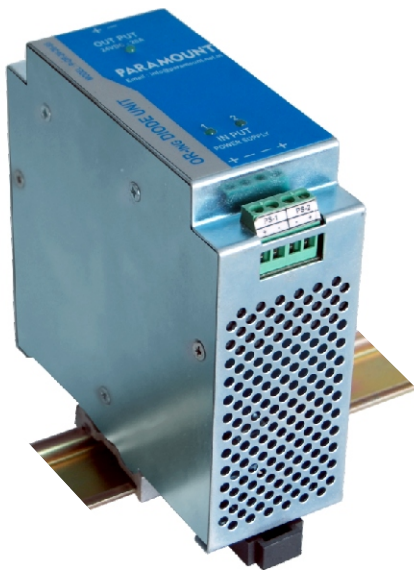
Mounting - 35mm DIN Rail

Weight - 0.5 Kg. Approx.

* Custom built OR ing units can be designed and built to suit the special requirements.

OR-ING DIODE UNIT

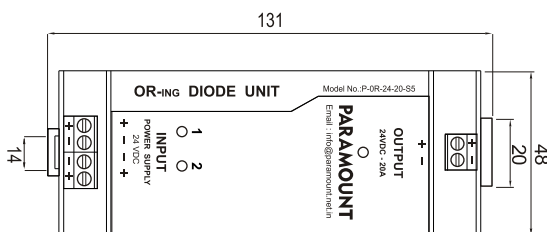
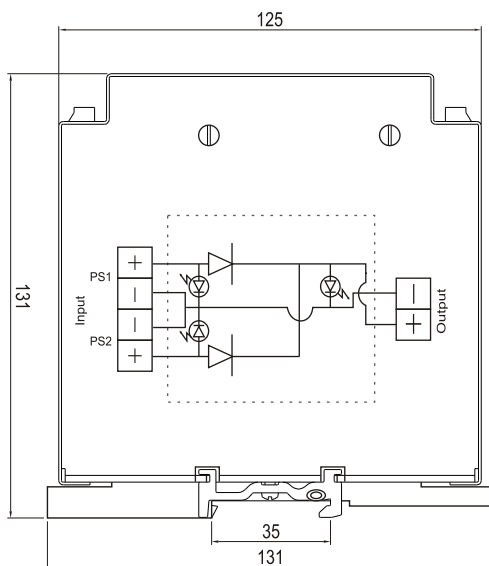
Model No.: P-0R-24-20-S5



GENERAL INFORMATION

The OR-ING unit combines two or more power sources to create redundant power source preserving the output power supply in case one of the input source fails. In this situation of input power failure, the next power supply feeds the power quickly to prevent the system bus voltage from failing & bus collapse.

DIMENSIONS



SPECIFICATION

Input - 24V DC supply - 2nos. (Standard)

Output Current -

Model No.	Current Rating	Voltage
P-0R-24-20-S5	20 Amps	24 VDC

Overload - 10% Max.

Drop - 0.65 volts max DC at 20A

Di-Electric Strength - 1KV AC
(between Input / Output to body)

Insulation Resistance - 100 Mega ohm @ 500 VDC min.
(between Input / Output to body)

Working Temperature - 55° C Ambient max.

Indicators :

Input Power Supply - 1 green LED for each power supply

Output Power Supply - 1 green LED for output

Conductor Cross Section - 0.20 - 4.0 mm² solid
0.20 - 2.5 mm² stranded
AWG 24 - 12

Dimension (LxBxH)mm - 131x48x131

Mounting - 35mm DIN Rail

Weight - 1.2 Kg. approx.

* Custom built OR ing units can be designed and built to suit the special requirements.

Conductor Cross Section - 0.20 - 4.0 mm² solid
0.20 - 2.5 mm² stranded
AWG 24 - 12

OR-ING DIODE UNIT

Model No.: P-0R-24-05

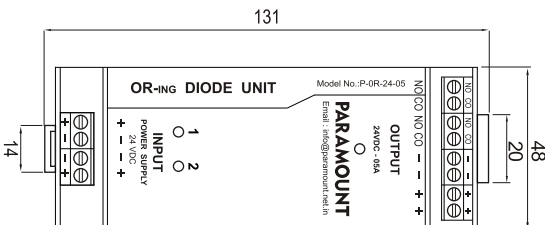
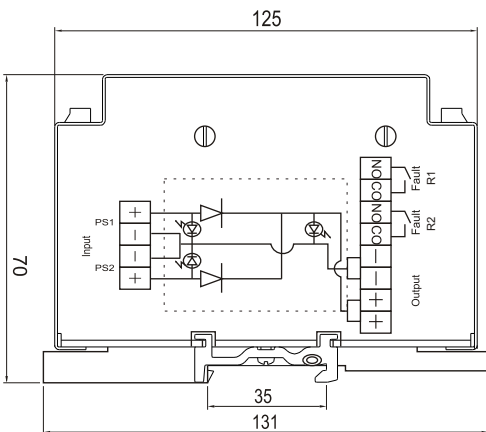
Model No.: P-0R-24-10



GENERAL INFORMATION

The OR-ING unit combines two or more power sources to create redundant power source preserving the output power supply in case one of the input source fails. In this situation of input power failure, the next power supply feeds the power quickly to prevent the system bus voltage from failing & bus collapse. 1 N/C relay contacts brought out for the each power supply failure alarm.

DIMENSIONS



SPECIFICATION

- Input -** 24V DC supply - 2nos. (Standard)
- Output Current -**
- | Model No. | Current Rating | Voltage |
|------------|----------------|---------|
| P-0R-24-05 | 5 Amps | 24 VDC |
| P-0R-24-10 | 10 Amps | 24 VDC |
- Overload -** 10% Max.
- Drop -** 0.65 volts max DC at 5A / 10A
- Di-Electric Strength -** 1KV AC
(between Input / Output to body)
- Insulation Resistance -** 100 Mega ohm @ 500 VDC min.
(between Input / Output to body)
- Working Temperature -** 55° C Ambient max.
- Indicators :**
- Input Power Supply -** 1 green LED for each power supply
- Output Power Supply -** 1 green LED for output
- Output -** 1N/C Relay Contact,
Rated 5Amps@ 24VDC / 230VAC
in case of failure of the input power supply.
- Conductor Cross Section -** 0.20 - 4.0 mm² solid
0.20 - 2.5 mm² stranded
AWG 24 - 12
- Dimension (LxBxH)mm -** 131x48x70
- Mounting -** 35mm DIN Rail
- Weight -** 0.5 Kg. Approx.

* Custom built OR ing units can be designed and built to suit the special requirements.

OR-ING DIODE UNIT

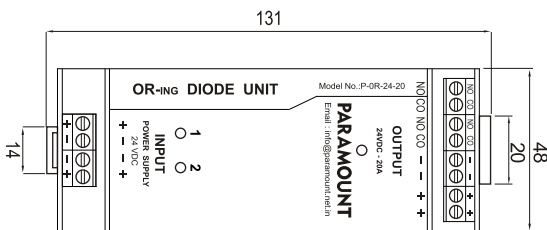
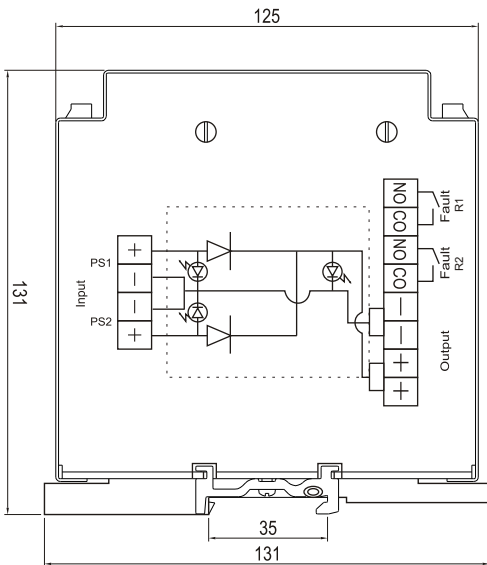
Model No.: P-OR-24-20



GENERAL INFORMATION

The OR-ING unit combines two or more power sources to create redundant power source preserving the output power supply in case one of the input source fails. In this situation of input power failure, the next power supply feeds the power quickly to prevent the system bus voltage from failing & bus collapse. 1 N/C relay contacts brought out for the each power supply failure alarm.

DIMENSIONS



SPECIFICATION

- Input -** 24V DC supply - 2nos. (Standard)
- Output Current -**
- | Model No. | Current Rating | Voltage |
|------------|----------------|---------|
| P-OR-24-20 | 20 Amps | 24 VDC |
- Overload -** 10% Max.
- Drop -** 0.65 volts max DC at 20A
- Di-Electric Strength -** 1KV AC
(between Input / Output to body)
- Insulation Resistance -** 100 Mega ohm @ 500 VDC min.
(between Input / Output to body)
- Working Temperature -** 55° C Ambient max.
- Indicators :**
- Input Power Supply -** 1 green LED for each power supply
- Output Power Supply -** 1 green LED for output
- Output -** 1N/C Relay Contact,
Rated 5Amps@ 24VDC / 230VAC
in case of failure of any one of the input power supply.
- Conductor Cross Section -** 0.20 - 4.0 mm² solid
0.20 - 2.5 mm² stranded
AWG 24 - 12
- Dimension (LxBxH)mm -** 131x48x131
- Mounting -** 35mm DIN Rail
- Weight -** 1.2 Kg. approx.

* Custom built OR ing units can be designed and built to suit the special requirements.

OR-ING DIODE UNIT

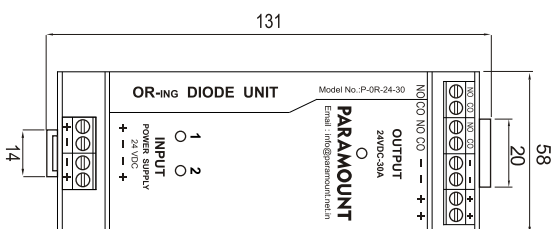
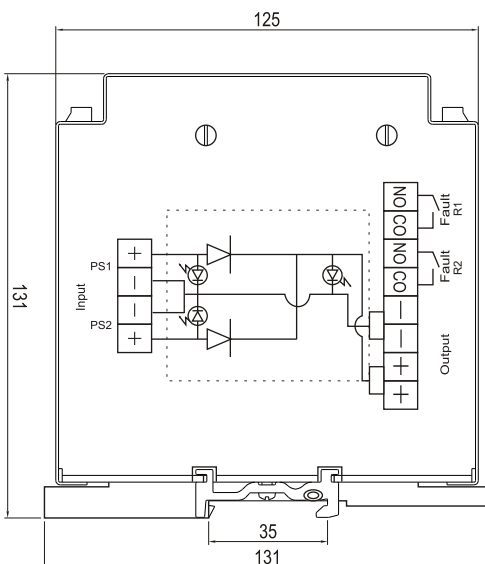
Model No.: P-OR-24-30



GENERAL INFORMATION

The OR-ING unit combines two or more power sources to create redundant power source preserving the output power supply in case one of the input source fails. In this situation of input power failure, the next power supply feeds the power quickly to prevent the system bus voltage from failing & bus collapse. 1 N/C relay contacts brought out for the each power supply failure alarm.

DIMENSIONS



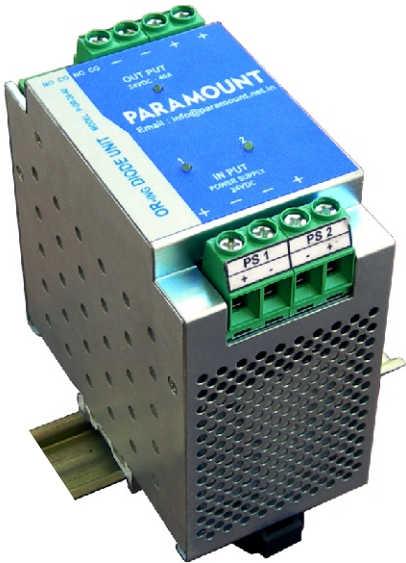
SPECIFICATION

- Input -** 24V DC supply - 2nos. (Standard)
- Output Current -**
- | Model No. | Current Rating | Voltage |
|------------|----------------|---------|
| P-OR-24-30 | 30 Amps | 24 VDC |
- Overload -** 10% Max.
- Drop -** 0.65 volts max DC at 30A
- Di-Electric Strength -** 1KV AC
(between Input / Output to body)
- Insulation Resistance -** 100 Mega ohm @ 500 VDC min.
(between Input / Output to body)
- Working Temperature -** 55° C Ambient max.
- Indicators :**
- Input Power Supply -** 1 green LED for each power supply
- Output Power Supply -** 1 green LED for output
- Output -** 1N/C Relay Contact,
Rated 5Amps@ 24VDC / 230VAC
in case of failure of any one of the input power supply.
- Conductor Cross Section -** 0.20 - 4.0 mm² solid
0.20 - 2.5 mm² stranded
AWG 24 - 12
- Dimension (LxBxH)mm -** 131x58x131
- Mounting -** 35mm DIN Rail
- Weight -** 1.4 Kg. approx.

* Custom built OR ing units can be designed and built to suit the special requirements.

OR-ING DIODE UNIT

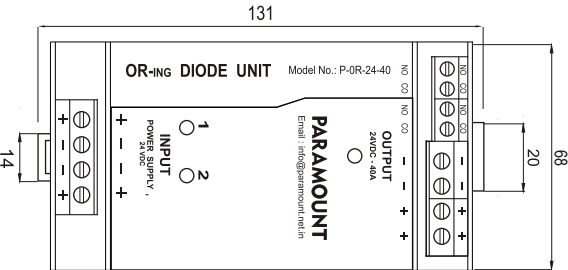
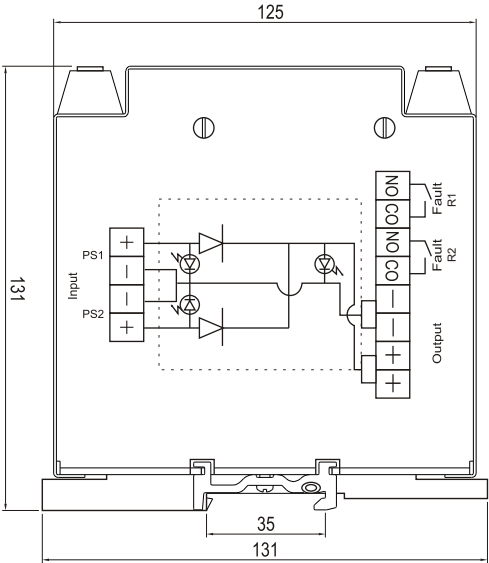
Model No.: P-0R-24-40



GENERAL INFORMATION

The OR-ING unit combines two or more power sources to create redundant power source preserving the output power supply in case one of the input source fails. In this situation of input power failure, the next power supply feeds the power quickly to prevent the system bus voltage from failing & bus collapse. 1 N/C relay contacts brought out for the each power supply failure alarm.

DIMENSIONS



SPECIFICATION

- Input -** 24V DC supply - 2nos. (Standard)
- Output Current -**

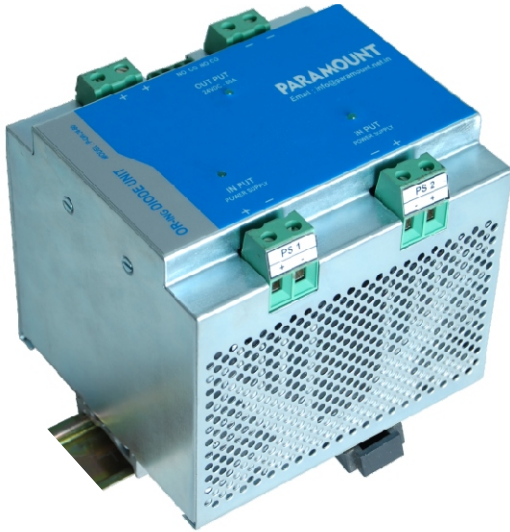
Model No.	Current Rating	Voltage
P-0R-24-40	40 Amps	24 VDC
- Overload -** 10% Max.
- Drop -** 0.65 volts max DC at 40A
- Di-Electric Strength -** 1KV AC
(between Input / Output to body)
- Insulation Resistance -** 100 Mega ohm @ 500 VDC min.
(between Input / Output to body)
- Working Temperature -** 55° C Ambient max.
- Indicators :**
 - Input Power Supply -** 1 green LED for each power supply
 - Output Power Supply -** 1 green LED for output
- Output -** 1N/C Relay Contact,
Rated 5Amps@24VDC / 230VAC
in case of failure of any one of the input power supply.
- Conductor Cross Section -** 16 mm² solid
10 mm² stranded
AWG 6
- Dimension (LxBxH)mm -** 131x68x131
- Mounting -** 35mm DIN Rail
- Weight -** 1.4 Kg. approx.

* Custom built OR ing units can be designed and built to suit the special requirements.

OR-ING DIODE UNIT

Model No.: P-0R-24-60

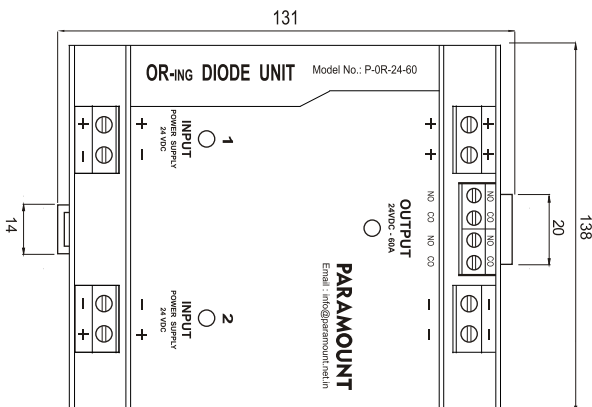
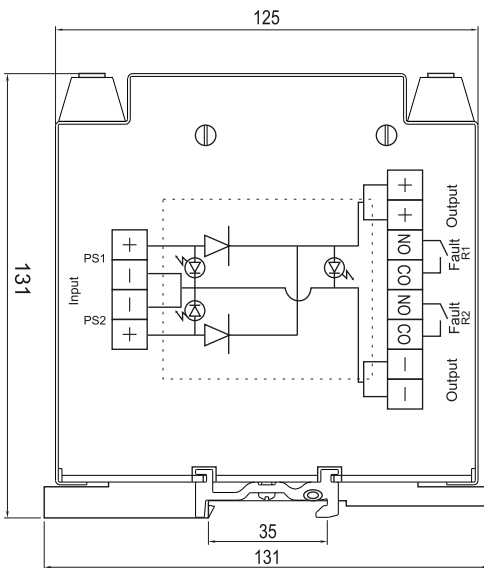
Model No.: P-0R-24-70



GENERAL INFORMATION

The OR-ING unit combines two or more power sources to create redundant power source preserving the output power supply in case one of the input source fails. In this situation of input power failure, the next power supply feeds the power quickly to prevent the system bus voltage from failing & bus collapse. 1 N/C relay contacts brought out for the each power supply failure alarm.

DIMENSIONS



SPECIFICATION

Input - 24V DC supply - 2nos. (Standard)

Output Current -

Model No.	Current Rating	Voltage
P-0R-24-60	60 Amps	24 VDC
P-0R-24-70	70 Amps	24 VDC

Overload -

10% Max.

Drop -

0.65 volts max DC at 60A
0.70 volts max. DC at 70A

Di-Electric Strength -

1KV AC

(between Input / Output to body)

Insulation Resistance -

100 Mega ohm @ 500 VDC min.
(between Input / Output to body)

Working Temperature -

55° C Ambient max.

Indicators :

Input Power Supply -

1 green LED for each power supply

Output Power Supply -

1 green LED for output

Output -

1N/C Relay Contact,
Rated 5Amps@ 24VDC / 230VAC
in case of failure of any one
of the input power supply.

Conductor Cross Section -

16 mm² solid
10 mm² stranded
AWG 6

Dimension (LxBxH)mm -

131x138x131

Mounting -

35mm DIN Rail

Weight -

2.7 Kg. approx.

* Custom built OR ing units can be designed and built to suit the special requirements.

DETACHABLE TERMINAL BLOCK TYPE OR-ING DIODE UNIT

Power supply fault output
NC relay contact

Input power ON indicator

Output power ON indicator

Detachable Connector

35mm DIN Rail mountable

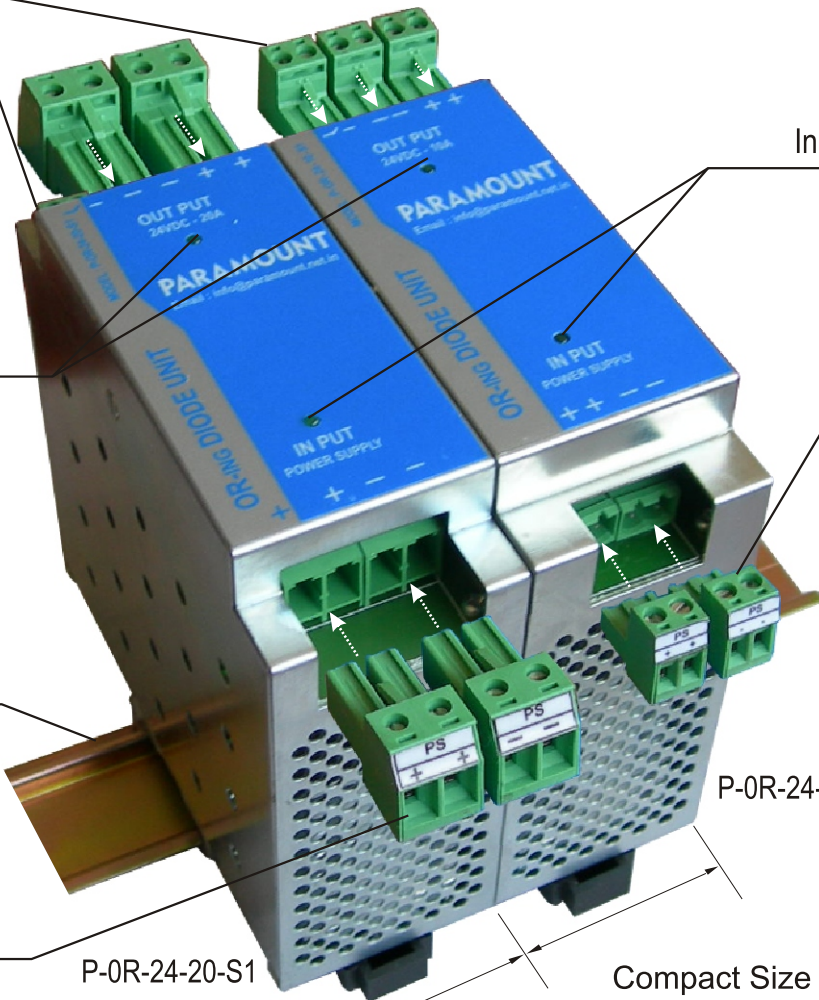
P-OR-24-10-S1

Power supply input

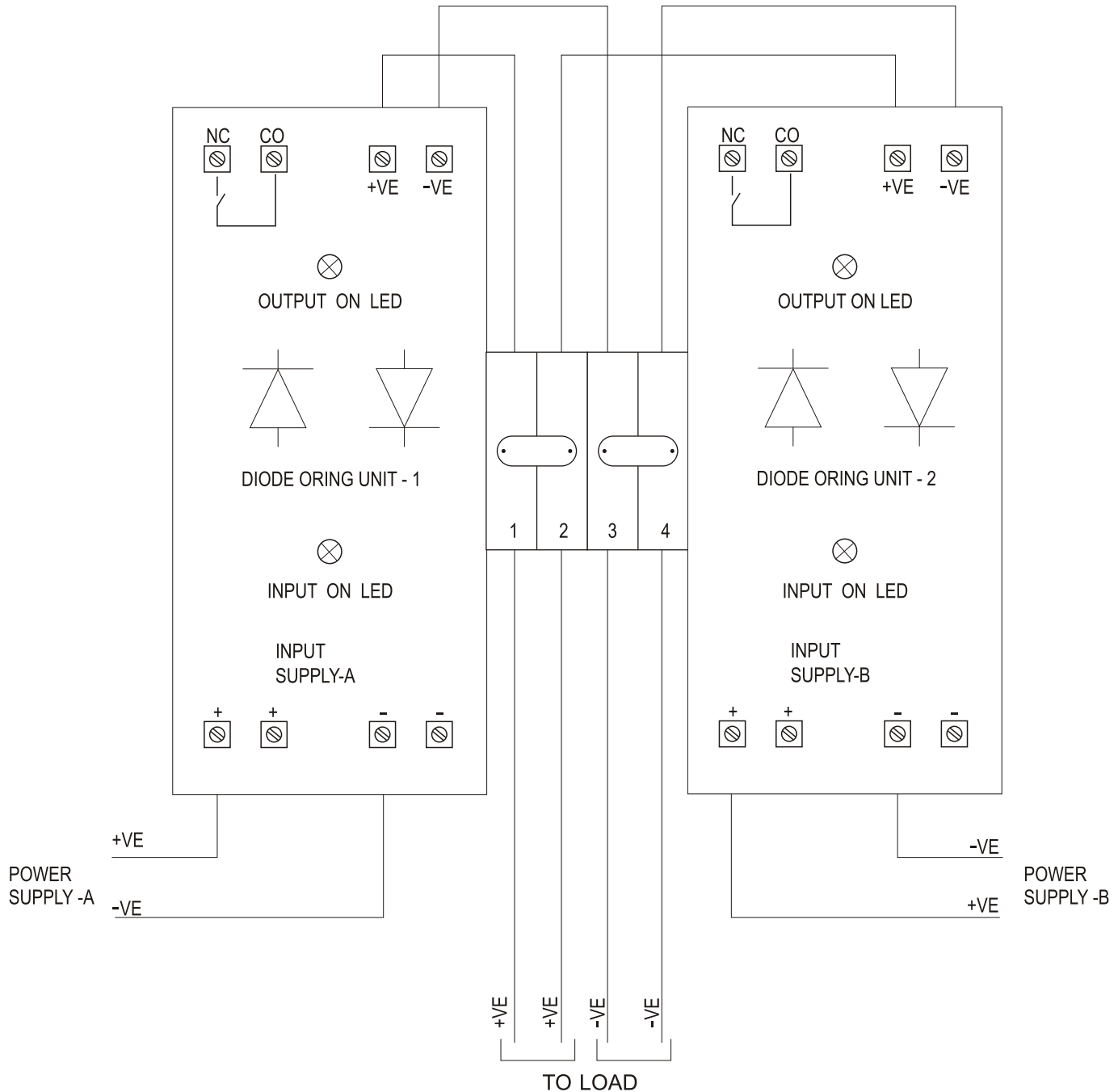
P-OR-24-20-S1

Compact Size
48 mm

Compact Size
48 mm



SCHEMATIC BLOCK DIAGRAM TO USE DIODE BLOCK FOR MODEL No.: P-OR-24-5-S1, P-OR-24-10-S1 & P-OR-24-20-S1



This Diode Oring unit has one series diode in the +ve & -ve supply line in the unit. This isolates both +ve & -ve power supply lines with the other power supplies.

To create power supply redundancy through these units the output of each power supply is connected at the input of each of these Oring units with right polarity & output from these units are connected in parallel i.e +ve terminal to +ve terminal & -ve terminal to -ve terminal at the output of each Oring unit.

PI. Note : One Oring unit is required for each one of the power supplies. The Oring units are fitted with completely detachable connectors which makes downtime very less incase any one of the unit has to be replaced compared with screw type connector thus saving valuable down time in process industries.

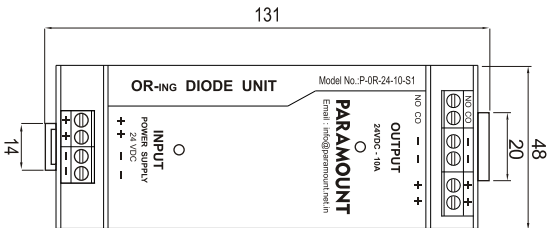
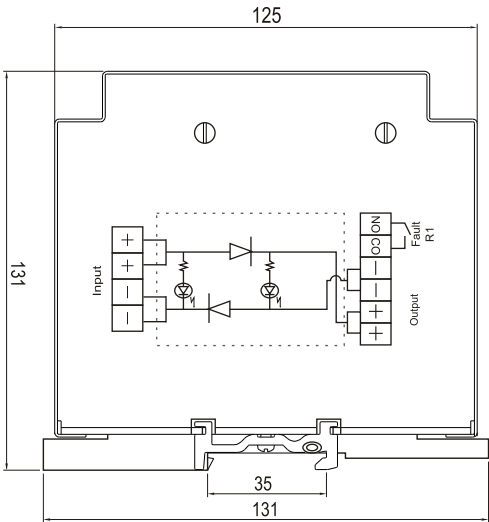
OR-ING DIODE UNIT

Model No.: P-0R-24-05-S1

Model No.: P-0R-24-10-S1



DIMENSIONS



GENERAL INFORMATION

The OR-ING unit comprises of power supply isolating diodes in positive and negative supply lines of the input power supply. For redundancy in the power supply to the control unit the output of two or more such units are connected in parallel. In the situation where input to one of the Oring unit power supply fails, the next power supply connected will feed the power quickly to prevent the system bus voltage from failing and bus collapse. 1N/C relay contact is brought out from each oring unit for supply failure alarm.

SPECIFICATION

- Input -** 24V DC supply - 2nos. (Standard)
- Output Current -**

Model No.	Current Rating	Voltage
P-0R-24-05-S1	5 Amps	24 VDC
P-0R-24-10-S1	10 Amps	24 VDC
- Overload -** 10% Max.
- Drop -** 0.65 volts max DC at 5A / 10A
- Di-Electric Strength -** 1KV AC
(between Input / Output to body)
- Insulation Resistance -** 100 Mega ohm @ 500 VDC min.
(between Input / Output to body)
- Working Temperature -** 55° C Ambient max.
- Indicators :**
 - Input Power Supply -** 1 green LED for each power supply
 - Output Power Supply -** 1 green LED for output
- Output -** 1N/C Relay Contact,
Rated 5Amps@ 24VDC / 230VAC
in case of failure of the input power supply.
- Conductor Cross Section -** 0.20 - 2.5 mm² solid
0.20 - 2.5 mm² stranded
AWG 24 - 12
- Dimension (LxBxH)mm -** 131x48x131
- Mounting -** 35mm DIN Rail
- Weight -** 0.5 Kg. Approx.

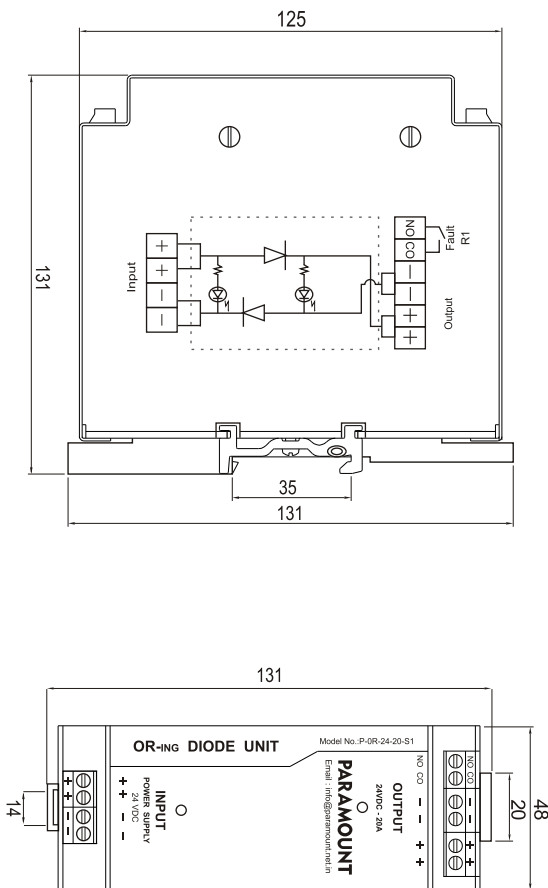
* Custom built OR ing units can be designed and built to suit the special requirements.

OR-ING DIODE UNIT

Model No.: P-0R-24-20-S1



DIMENSIONS



GENERAL INFORMATION

The OR-ING unit comprises of power supply isolating diodes in positive and negative supply lines of the input power supply. For redundancy in the power supply to the control unit the output of two or more such units are connected in parallel. In the situation where input to one of the Oring unit power supply fails, the next power supply connected will feed the power quickly to prevent the system bus voltage from failing and bus collapse. 1N/C relay contact is brought out from each oring unit for supply failure alarm.

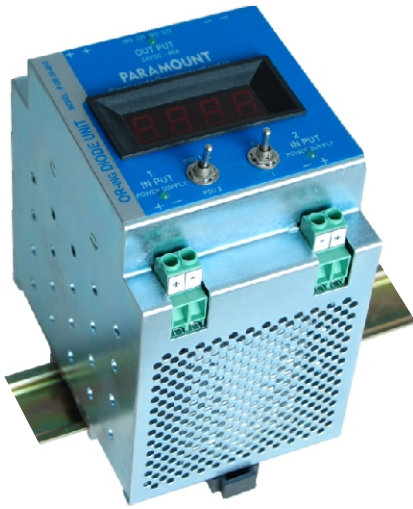
SPECIFICATION

- Input -** 24V DC supply - 2nos. (Standard)
- Output Current -**
- | Model No. | Current Rating | Voltage |
|---------------|----------------|---------|
| P-0R-24-20-S1 | 20 Amps | 24 VDC |
- Overload -** 10% Max.
- Drop -** 0.65 volts max DC at 20A
- Di-Electric Strength -** 1KV AC
(between Input / Output to body)
- Insulation Resistance -** 100 Mega ohm @ 500 VDC min.
(between Input / Output to body)
- Working Temperature -** 55° C Ambient max.
- Indicators :**
- Input Power Supply -** 1 green LED for each power supply
- Output Power Supply -** 1 green LED for output
- Output -** 1N/C Relay Contact,
Rated 5Amps@ 24VDC / 230VAC
in case of failure of the input power supply.
- Conductor Cross Section -** 0.20 - 4.0 mm² solid
0.20 - 4.0 mm² stranded
AWG 24 - 10
- Dimension (LxBxH)mm -** 131x48x131
- Mounting -** 35mm DIN Rail
- Weight -** 0.5 Kg. Approx.

* Custom built OR ing units can be designed and built to suit the special requirements.

OR-ING DIODE UNIT WITH DIGITAL DISPLAY

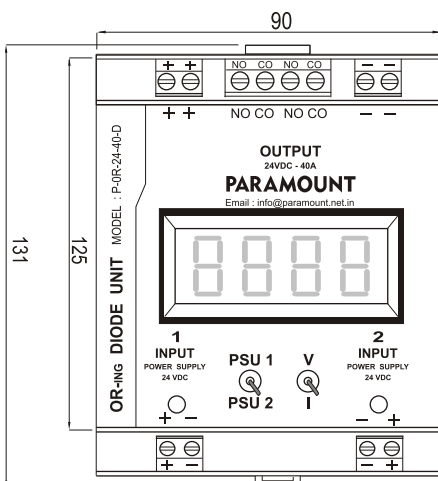
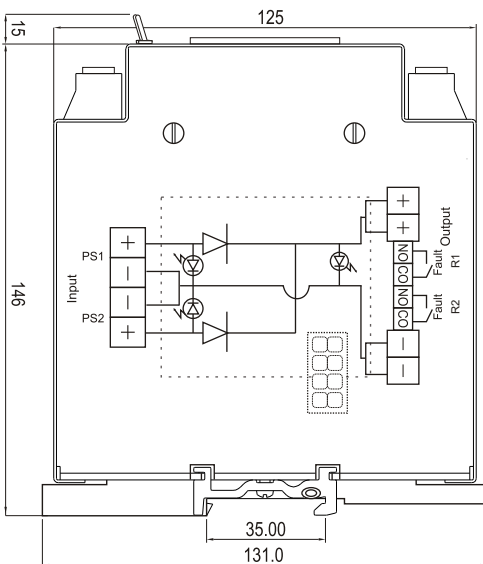
Model No.: P-OR-24-40D



GENERAL INFORMATION

The OR-ING unit combines two or more power sources to create redundant power source preserving the output power supply in case one of the input sources fails. In this situation of input power failure, the next power supply feeds the power quickly to prevent the system bus voltage from failing & bus collapse. The power supply failure signal is given by relay N/C contact.

DIMENSIONS



SPECIFICATION

- Input -** 24V DC supply - 2nos. (Standard)
- Output Current -**

Model No.	Current Rating	Voltage
P-OR-24-40D	40 Amps	24 VDC
- Overload -** 10% Max.
- Drop -** 0.65 volts max DC at 40A
- Di-Electric Strength -** 1KV AC
(between Input / Output to body)
- Insulation Resistance -** 100 Mega ohm @ 500 VDC min.
(between Input / Output to body)
- Working Temperature -** 55° C Ambient max.
- Indicators :**
- Digital Display** 3 ½ DPM RED LED 18mm
Voltage and current
- Change Over Switches** 1 Toggle for voltage and current selection
1 Toggle for PSU1 and PSU2
- Input Power Supply -** 2 green LEDs for each power supply
- Output Power Supply -** 1 green LED for output
- Output -** 1N/C Relay Contact one for each power supply
Rated 5Amps@24VDC / 230VAC
in case of failure of any one of the input power supply.
- Conductor Cross Section -** 0.20 - 6.0 mm² solid
0.20 - 4.0 mm² stranded
AWG 24 - 10
- Dimension (LxBxH)mm -** 131x90x146
- Mounting -** 35mm DIN Rail
- Weight -** 1.5 Kg. Approx.

* Custom built OR ing units can be designed and built to suit the special requirements.

* In the interest of product improvement, specifications are subject to change without notice.

PARAMOUNT

Paramount Industries

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