

REDUNDANT MODULES 20 A DIMENSION SERIES

YR2.DIODE

Redundancy Module 2 x 12-48V dc 10A I/P 12-48V dc
20A O/P

- 32 mm wide
- Dual diodes
- Relay indication of power supply status
- Increases operational reliability



PRODUCT DESCRIPTION

Redundant module used with power supply unit to assure 24 V supply. The redundant module has two separate inputs with diodes that separate the power supply units. In the event of a fault on the secondary side of power supply 1, the diode will prevent power supply 2 from being short circuited. A system protected against internal power supply faults is attained that is especially well-suited in processes where downtime is costly. The redundant module can also be used in systems in which operation of sensitive loads is to be assured. Input 1 is connected to the main power supply that normally supplies loads and, for example, the PLC. Input 2 is connected to a smaller power supply that is only connected to the sensitive load, in this case the PLC. In the event of a fault to the main power supply or short circuit of the loads, the PLC will be supplied by the smaller power supply and incorrect process terminations are avoided. The redundant module is also well-suited when you want to separate the power supply units from the loads so as to avoid returned voltage, such as from motors and batteries. YRM2.diode has 2 relay outputs that indicate if voltage drops/is zero. The relay opens in the event of faults and the LED turns off. YRM2 is especially well-suited for Dimension C, which does not have relay outputs. If more than 10 A is required per channel, two redundant modules are connected, one for each power supply. Both inputs must be connected on each module.

TECHNICAL DATA

INPUT DATA

| | |
|-------------------------------|---------|
| Input voltage dc | 12-48 V |
| Input voltage dc min | 9 V DC |
| Input voltage dc max | 60 V DC |
| Input current per channel max | 10 A |

OUTPUT DATA

| | |
|--------------------|---------|
| Output voltage min | 12 V DC |
| Output voltage max | 48 V DC |
| Output current | 20 A |
| Output current max | 25 A |

DIMENSIONS

| | |
|--------|---------|
| Width | 32 mm |
| Height | 124 mm |
| Depth | 102 mm |
| Weight | 0.29 kg |

OTHER

| | |
|----------------------------------|-----------------------------------|
| Input / Output Separation | Diode |
| Approvals | ATEX, CB, CE, CSA, CSA US, GL, UL |
| IP class | IP20 |
| Material protection | Aluminium |
| Series | Dimension Y |
| Voltage drop over semiconductor | 850 mV |
| Temperature min without derating | -40 °C |
| Temperature max without derating | 70 °C |
| Type Power Supply | Redundancy modules |



