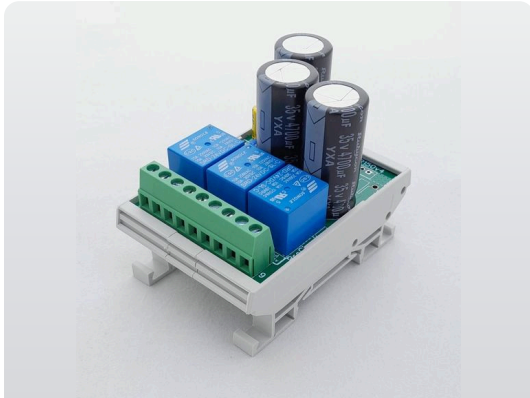


24 V DC emergency power changeover with alarm contact, 8 A

Article number PR150



The PR150 monitors the voltage of the main supply and quickly switches the output to the emergency supply as soon as that voltage drops, for example due to a short circuit or power failure. Large capacitors keep the voltage dip during changeover small, even at maximum load. A FET acting as an ideal diode prevents current from flowing back into a short circuit on the main supply and keeps heat dissipation so low that no heat sink is needed. Main and emergency supply are galvanically isolated from each other.

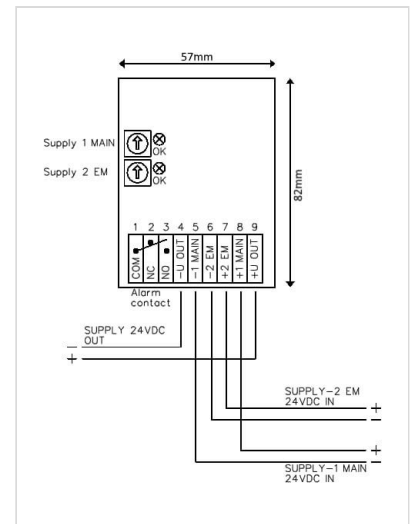
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	Main and emergency supply 24 V DC ($\pm 10\%$)
Output	24 V DC to the load, 8 A continuous max.; reverse polarity protected
Isolation	Main and emergency supply galvanically isolated from each other
Setup	"Power OK" threshold with two trimmers: main supply 18 to 22 V DC, emergency supply 15 to 30 V DC
Alarm contact	Changeover contact (COM, NC, NO); NO closed in normal operation. Switches 30 seconds after the main supply fails, or after about 35 seconds if the emergency supply fails while the main supply works
Indication	MAIN OK and EM OK LEDs, green in normal operation
Ambient temperature	0 to 55 °C
Dimensions	57 x 82 mm

Connections

Terminal 1	Alarm contact, common (COM)
Terminal 2	Alarm contact, normally closed (NC)
Terminal 3	Alarm contact, normally open (NO)
Terminal 4	Output minus, to the load
Terminal 5	Main supply minus
Terminal 6	Emergency supply minus
Terminal 7	Emergency supply plus
Terminal 8	Main supply plus
Terminal 9	Output plus, to the load



Setup

1. Connect the main supply to terminals 8 (plus) and 5 (minus), the emergency supply to terminals 7 (plus) and 6 (minus) and the load to terminals 9 (plus) and 4 (minus).
2. Connect the alarm signalling to terminal 1 (COM) and terminal 2 (NC) or terminal 3 (NO).
3. Switch on both supplies. In normal operation the MAIN OK and EM OK LEDs light green and the alarm contact NO is closed.
4. If required, set the main power OK threshold with the trimmer next to MAIN OK, between 18 and 22 V DC; turning clockwise raises the threshold.
5. If required, set the EM power OK threshold with the trimmer next to EM OK, between 15 and 30 V DC.

More information, price and lead time: www.procircuits.nl/en/products/pr150

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