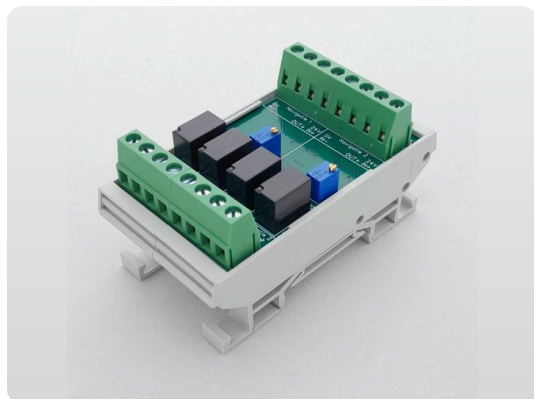


Navigation lights monitor for low-power lamps with alarm contact, 25-250 mA

Article number PR153-2



The PR153-2 monitors two low-power navigation lamps, incandescent or LED, with a measuring range of 25 to 250 mA per lamp. As delivered, the alarm threshold is 3.6 W (150 mA at 24 V); it can be adjusted steplessly per lamp with a trimmer, up to 6 W. Each lamp has its own alarm contact and indication contact, so you can see which lamp has failed.

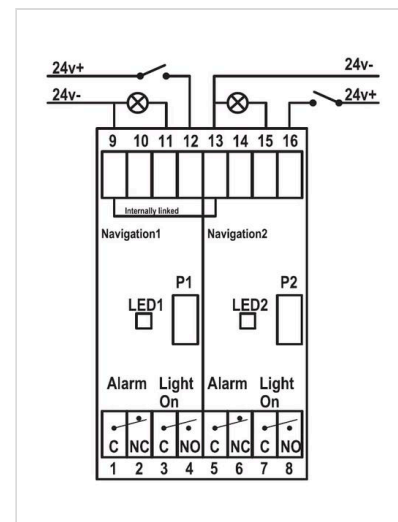
Price on request. Lead time on request. Not in stock? We will make it.

Specifications

Supply	24 V DC ($\pm 20\%$)
Input	Two navigation lamps, measuring range 25 to 250 mA per lamp
Output	Per lamp an alarm contact (NC) and an indication contact (NO); both closed while the lamp works
Isolation	Alarm and indication contacts galvanically isolated from the inputs
Setup	Alarm threshold per lamp with trimmers P1 and P2, stepless up to 6 W
Ambient temperature	0 to 80 °C
Dimensions	45 x 82 mm
Factory setting	Alarm threshold 3.6 W (150 mA at 24 V)

Connections

Terminal 1	Alarm contact lamp 1, normally closed (NC)
Terminal 2	Alarm contact lamp 1, common (COM)
Terminal 3	Indication contact lamp 1, normally open (NO)
Terminal 4	Indication contact lamp 1, common (COM), internally connected to terminal 8
Terminal 5	Alarm contact lamp 2, normally closed (NC)
Terminal 6	Alarm contact lamp 2, common (COM)
Terminal 7	Indication contact lamp 2, normally open (NO)
Terminal 8	Indication contact lamp 2, common (COM), internally connected to terminal 4
Terminal 9	Navigation 1: supply 0 V and lamp minus, internally connected to terminal 13
Terminal 10	Not used
Terminal 11	Navigation 1: lamp plus (+24 V output, the current is monitored)
Terminal 12	Navigation 1: supply plus (+24 V input)
Terminal 13	Navigation 2: supply 0 V and lamp minus, internally connected to terminal 9
Terminal 14	Not used
Terminal 15	Navigation 2: lamp plus (+24 V output, the current is monitored)
Terminal 16	Navigation 2: supply plus (+24 V input)



Setup

1. Connect the first lamp to Navigation 1: plus to terminal 11 and minus to terminal 9. Connect the supply to terminal 12 (plus) and terminal 9 (0 V).
2. Set the alarm threshold of the first lamp with trimmer P1: turning clockwise raises the threshold, anticlockwise lowers it.
3. Connect the second lamp to Navigation 2 (terminals 15 and 13) and the supply to terminals 16 and 13.
4. Set the alarm threshold of the second lamp in the same way with trimmer P2.
5. If the current drawn by a lamp falls below the set threshold, the alarm contact and the indication contact of that lamp open.

More information, price and lead time: www.procircuits.nl/en/products/pr153-2

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