

# Transformer Rectifier 24v Door Retainer Datasheet

## Power Supply Units

### Product Overview

The Transformer Rectifier (TR) range has been specifically designed for fire and access control applications that require remote control of the power supply output.

The enhanced TR range of power supplies have been specifically designed for access control applications that require remote control of the power supply output. TR power supply units are typically used to power door retainers with a link to the fire panel in order to switch off the output to the doors upon the activation of a fire alarm.

The units have an expanded range of input options which includes the detection of a normally closed contact going open to provide a fully fail safe operation mode.

The three input options for remote control of the output are as follows:

- Opening of a normally closed volt-free contact
- Closing of a normally open volt-free contact
- Application of an external 24V dc supply such as a sounder circuit

LED status indicators provide quick diagnostics showing the presence of a mains input and output fuse failure.



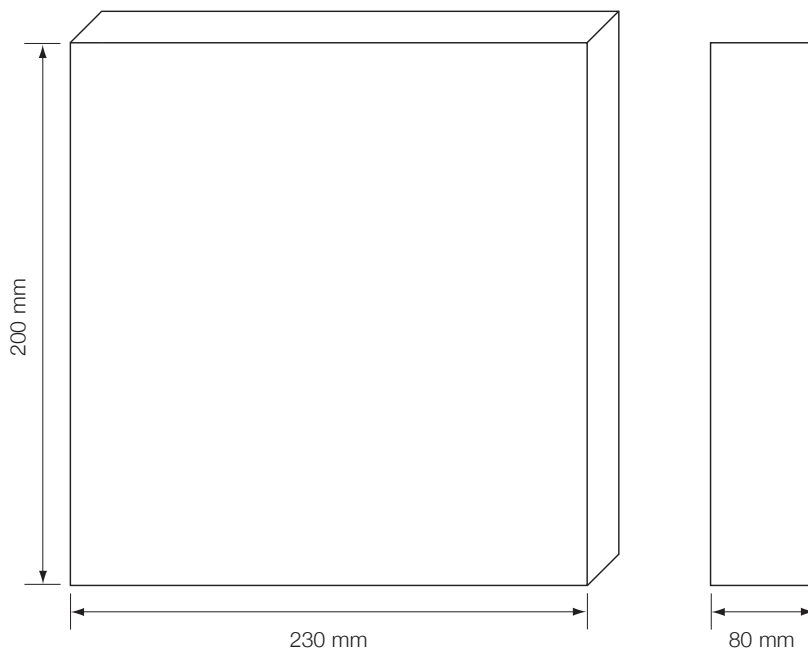
### Key Features

- Remote control of output
- Choice of switching options
- LED indication
- Mains transient protection
- Fail safe operation

# Specification

|                         | TR 2amp   | TR 4amp                |
|-------------------------|---|------------------------|
| <b>Input</b>            |   |                        |
| Voltage                 | 230Vac, 50Hz nominal  |                        |
| Current                 | 290mA maximum   | 500mA maximum          |
| Mains input fuse        | T0.5A 20mm, 250Vac HBC                                      | T1.0A 20mm, 250Vac HBC |
| <b>Output</b>           |   |                        |
| Voltage                 | 22- 30vdc dependent on load                                 |                        |
| Load Current            | 2A maximum  | 4A maximum             |
| Load output fuse        | F2A 20mm, 250Vac glass                                      | F4A 20mm, 250Vac glass |
| <b>Mechanical</b>       |   |                        |
| Case material           | 1.2mm steel, white powder coated                            |                        |
| Dimensions (HxWxD)      | 200 x 230 x 80mm  |                        |
| Weight                  | 3.0Kg   | 3.5Kg                  |
| <b>Environmental</b>    |   |                        |
| Temperature - operating | -10 to +40 OC 95%   |                        |
| Temperature - storage   | -20 to +80 OC   |                        |
| <b>Connections</b>      |   |                        |
| DOOR + and -            | Switched 24v to door retainer magnet                        |                        |
| Control Contact         | Open circuit = PSU output ON Short circuit = PSU output OFF |                        |
| Ext Supply + and -      | Apply +24vdc to switch OFF PSU output                       |                        |
| <b>Indicators</b>       |   |                        |
| Green LED               | Mains present   |                        |
| Amber LED               | Output fuse blown   |                        |

## Dimensions



**MORLEY**  **IAS**  
**FIRE SYSTEMS**  
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### DESCRIPTION

2amp 24vdc Door Retainer  
Power Supply

### ORDER CODES

HLS-PSU-TR20

4amp 24vdc Door Retainer  
Power Supply

HLS-PSU-TR40

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