

Transformer Rectifier 24v Door Retainer Power Supply Units Data Sheet



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

This document is not intended to be used for installation purposes. Every care has been taken in the preparation of this document but no liability can be accepted for the use of the information therein. Design features may be changed or amended without prior notice.

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ment Systems Certified to
ISO9001:1994



2 amp 24v Transformer Rectifier Door Retainer Power Supply Unit

The enhanced 2 Amp TR power supply has been specifically designed for access control applications that require remote control of the power supply output. TR power supply unit is 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 unit has 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.



Specifications

2A Transformer Rectifier Unit - HLS-PSU-TR20

Mechanical Specification

• Height	20.0 cm
• Width	23.0 cm
• Depth	8.0 cm
• Case material	1.2mm steel, white powder coated
• Weight	3.0 kg

Indicators

• Green LED	Mains present
• Amber LED	Output fuse blown

Electrical Specification

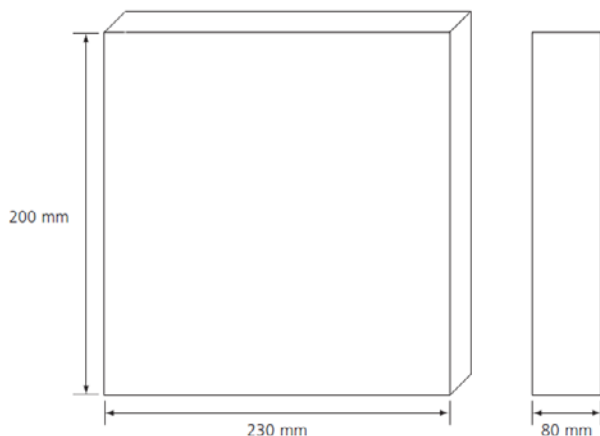
• Input Voltage	230Vac, 50Hz nominal
• Input Current	290mA maximum
• Mains Input Fuse	T0.5A 20mm, 250Vac HBC
• Output Voltage	22- 30Vdc dependent on load
• Output Load Current	2A maximum
• Load Output Fuse	F2A 20mm, 250Vac glass

Connections

• 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

Environmental Specifications

• Operating Temperature	-10°C to +40°C @ 95%RH
• Storage Temperature	-20°C to +80°C



4 amp 24v Transformer Rectifier Door Retainer Power Supply Unit

The enhanced 4 Amp TR power supply has been specifically designed for access control applications that require remote control of the power supply output. TR power supply unit is 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 unit has 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.



Specifications

4A Transformer Rectifier Unit - HLS-PSU-TR40

Mechanical Specification

• Height	20.0 cm
• Width	23.0 cm
• Depth	8.0 cm
• Case material	1.2mm steel, white powder coated
• Weight	3.5 kg

Indicators

• Green LED	Mains present
• Amber LED	Output fuse blown

Electrical Specification

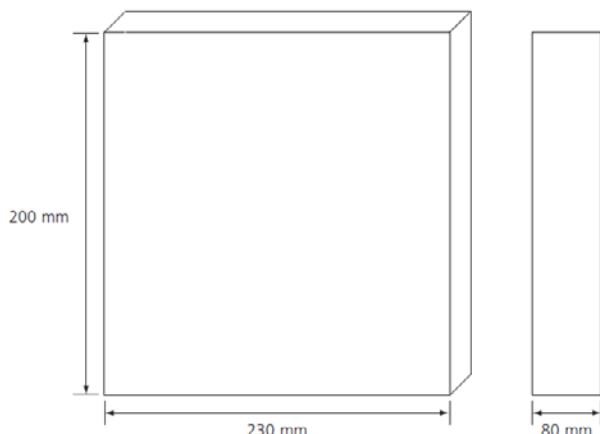
• Input Voltage	230Vac, 50Hz nominal
• Input Current	500mA maximum
• Mains Input Fuse	T1.0A 20mm, 250Vac HBC
• Output Voltage	22- 30Vdc dependent on load
• Output Load Current	4A maximum
• Load Output Fuse	F4A 20mm, 250Vac glass

Connections








• 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

Environmental Specifications

• Operating Temperature	-10°C to +40°C @ 95%RH
• Storage Temperature	-20°C to +80°C



Product Range at a Glance

	Description	Item Code
	Door Hold Transformer-Rectifier 24V 2A	HLS-PSU-TR20
	Door Hold Transformer-Rectifier 24V 4A	HLS-PSU-TR40
	Magnet Door Holder 24V DC 22mA	04390-31
	Magnet Door Holder floor mounted 24V DC 45mA	04390-41
	Magnet Door Holder 240V AC 17.5mA	04390-55
	Door Holder Floor Plate	04390-92
	Door Plate Assembly (Spare)	04390-99



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