CATALOGUE

TROJAN
DEVELOPMENTS

2018 Product Catalogue

Request to Exit Products
Relays, Fuses & Timers

CONTENTS

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About Trojan Developments

Introduction:

▼ Trojan Developments Ltd designs and manufactures a range of electronic security devices to operate in conjunction with Access Control Systems. Founded in 1987, Trojan Developments has been involved in the electronic security industry for over 30 years and identified a need to provide the security industry with more professional looking, reliable and easy to operate egress solutions.

▼ In New Zealand and Australia our exit units have become the industry standard for egress devices.
We also manufacture a range of Relay, Fuse and Timer Boards which are of a unique design to make the installation of Access Control Systems a lot simpler and quicker than using conventional PCBs.

▼ Our strong practical grounding in mechanical and design engineering combined with more than three decades in the security industry has enabled us to consider practical implications up front and produce a range of must have visually sophisticated products that are functional, practical, reliable and quick & easy to install.

▼ We are committed to manufacturing innovative, quality products for the Access Control System market. We are always updating our existing products and bringing new products to the market through our network of distributors.

PROX-REX®

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Touch-to-Exit request to exit device for use with Access Control Systems

The Prox Rex® (Touch to Exit) electronic switch is a low cost, touch sensitive switch unit designed for use with Access Control Systems and is an ideal replacement for conventional push buttons, door release buttons, call switches, etc.

Features:

▼ Requires only the lightest touch to activate, making it perfect for fast and easy egress, an advantage for the elderly and disabled

▼ Vandal-Resistant – all components are behind the plate

▼ Perfect replacement for door release buttons that are in high usage areas

▼ No moving parts

▼ Ideal for areas where infection control is important

▼ Two LED indicators provide visual confirmation for heartbeat (RED) and operated (Green)

▼ Built-in sounder to provide audible confirmation of operation

▼ Easy to clean and fade resistant

Specifications:

▼ Single gang profile fits standard electrical flush box

▼ Power requirements 9 to 16V DC - 50mA at 13.6 VDC

▼ Two sets of Clean N/O, N/C outputs

▼ The contacts are rated at 1 AMP @ 30Vdc

▼ The switch is fully self-calibrating

▼ Ⓒ C-Tick Certified

Product code:

▼ Prox Rex

PRESS-REX®

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Press-to-Exit request to exit device with iluminated button

The Press Rex® (Press to Exit) has an illuminated silicone push button of a size that can easily be pressed and seen in areas of limited lighting.
It also operates on either 12Vdc or 24Vdc.

Features:

▼ Has a large tactile button to give the user good feed back that the button has been pressed

▼ Durable surgical silicone button with inbedded text

▼ The button is backlit blue and changes to a solid green upon activation.

▼ Built-in sounder to provide audible confirmation of operation

▼ Easy to clean and fade resistant

▼ Compatible with the Em Cover for extra protection

▼ Fits the TDL Surface Mounting Kit and optional surrounds

Specifications:

▼ Single gang profile fits standard electrical flush box

▼ Power requirements 10 to 30V DC - 50mA at 13.6 Vdc and 25mA at 27.2 Vdc

▼ Two sets of Clean N/O, N/C outputs

▼ The contacts are rated at 2 AMP @ 30Vdc

▼ Spare Looping terminal

▼ ⟲ C-Tick Certified

Product code:

▼ Press Rex

EM-REX®

Emergency Exit Device for use with Access Control Systems

The Em Rex® (Emergency Exit Device) is an emergency door release unit which can be used on its own or in conjunction with the Prox Rex® units, to make up a total access controlled exit solution.

Features:

▼ Field resettable unit. A reset tool is supplied with every unit

▼ No breaking of glass when operated

▼ Two outputs; one set to break lock power and one set for status monitoring

▼ Visual confirmation of activation

▼ Audible confirmation of activation

▼ Ancillary input for remote operation of sounder

▼ Minimal moving parts

EMERGENCY DOOR RELEASE

Press to Activate

Em Rex

Specifications:

▼ Single gang profile fits standard electrical flush box

▼ Power requirements 9 to 16Vdc (only if using on board sounder)

▼ 10mA at 13.6 Vdc

▼ Two sets of Clean N/O, N/C outputs

▼ The contacts are rated at 1 AMP @ 30Vdc

▼ C-Tick Certified & complies with BS 5839 Pt 2. Standard for "Break-Glass Panels"

Product code:

▼ Em Rex

Smart Em®

Emergency Exit Device with LED Back Lighting

The Smart Em operates the same way as the standard Em Rex® (Emergency Exit Device) but it operates on either 12Vdc or 24Vdc.

The Smart EM® also has LED Back Lighting which allows both easy location and greater safety in emergencies involving areas of limited lighting.

Features:

▼ No breaking of glass when operated

▼ Two outputs: one set to break lock power and one set for status monitoring

▼ Visual confirmation of activation of both Em Rex Unit and Em Rex Cover when fitted

▼ Audible confirmation of activation

▼ Ancillary input for remote operation of sounder

▼ Minimal moving parts

▼ LED back lighting to allow the unit to be easily located

▼ Field resettable unit. A reset tool is supplied with every unit

▼ Compatible with the Em Cover for extra protection

▼ Fits the TDL Surface Mounting Kit and optional surrounds

▼ Em Cover can be fitted to this unit to avoid malicious use

▼ The face plate will not deteriorate over time and is easily cleaned

EMERGENCY DOOR RELEASE

Press to Activate

Smart Em Rex

Specifications:

▼ Single gang profile fits standard electrical flush box

▼ Power requirements 10 to 24Vdc (only if using on-board sounder)

▼ 10mA at 13.6 Vdc and 5mA at 27.6 Vdc

▼ Two sets of Clean N/O, N/C outputs

▼ The contacts are rated at 2 Amp @ 30Vdc

▼ LED back lighting

▼ C-Tick Certified & complies with BS 5839 Pt 2. Standard for "Break-Glass Panels"

Product Code:

▼ Smart Em Rex

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EM-COVER

Cover for use with Emergency Exit Device - Monitored

The Em Cover is for use with the Em Rex® unit to deter unintended or malicious activation of the unit when it is installed in a public area. The monitored version has two outputs which can be used to monitor the operation of the cover.

Features:

▼ Designed to complement the Em Rex unit and comply with local codes for emergency egress

▼ Two outputs; one set for local audible indication and one set for status monitoring

▼ The Em Cover is secured behind the Em Rex® unit to prevent removal

▼ The cover is designed to latch closed to make the operation of it a deliberate action

▼ The cover is made of polycarbonate to withstand long term operation without any deterioration

▼ Weather resistant for external use

▼ Minimal moving parts

▼ Text and graphics will not deteriorate over time and the unit is easily cleaned

Specifications:

▼ Overall dimensions; 92mm (w) x 153mm (h) and fits a single gang electrical flush box

▼ Switching voltage max is 30Vdc, 200mA

▼ Output for connection to the Em Rex® / Smart Em Rex for audible indication

▼ N/C output for status monitoring (opens on activation)

▼ Patent Pending

Product code:

▼ ECM (Emergency Cover Monitored)　　▼ ECU (Emergency Cover Un-Monitored)

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Surface Mounting Kit

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Surface Mounting Kit for the Prox Rex, Press Rex, Em Rex and Smart Em Rex

This mounting kit is for areas where you cannot recess the unit into the wall.
It comprises of a mounting block and deep surround to allow for the surface mounting of the Trojan egress products

Features:

▼ Can be used with all of the Trojan egress products

▼ The look is just like the standard unit but with a deeper surround

▼ It matches the standard units in colour and shape

Specifications:

▼ The unit is 120mm H x 77mm W x 27mm D and secures flush with the wall

▼ The kit includes the mounting block, deep surround and two fixing screws

▼ The mounting holes for fixing the units to the mounting block are metal to prevent the thread from stripping.

Product Code:

▼ TDL-SMK

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Vertical Double Surround

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Double Surround for the Prox Rex® Press Rex, Em Rex and Smart Em Rex®

This allows the Prox Rex / Press Rex and Em Rex / Smart Em to be mounted one above the other for a neat and tidy installation.

There is also an optional double mounting flush box to allow easy fixing to plaster board.

Features:

▼ Prox Rex is positioned in the top apperture as it is the commonly used unit

▼ It matches the standard units in colour and shape

▼ Compatible with the Vertical Double Flush Box

▼ The Em Rex / Smart Em would be positioned below the Prox Rex and Smart Em Rex for Emergency

▼ The Small and streamline presentation allows the units to be installed as a unit

Specifications:

▼ The unit is 240mm H x 77mm W x 27mm D and secures flush with the wall.

▼ The Em Rex would be mounted at a height of 1000mm from the floor with the Prox Rex above.

Product Code:

▼ TDL - VDS

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Vertical Double Flush Box

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Vertical Double Flush Box

This flush box is used to install the Trojan egress solution products in a vertical format.
It allows the fitting of the Prox / Press Rexin the top position and Em Rex / Smart Em Rex or Em Cover below for a neat and tidy installation.

Features:

▼ Made from a strong Polycarbonate

▼ Built in wall board fixing clips

▼ Marking cut out template incorporated in the flush box (instructions on the front face)

   Option for stud fixing also to allow for pre fixing to plaster board

▼ It ensures that the Prox Rex, Press Rex, Em Rex and Smart Em Rex all line up for a nice tidy installation
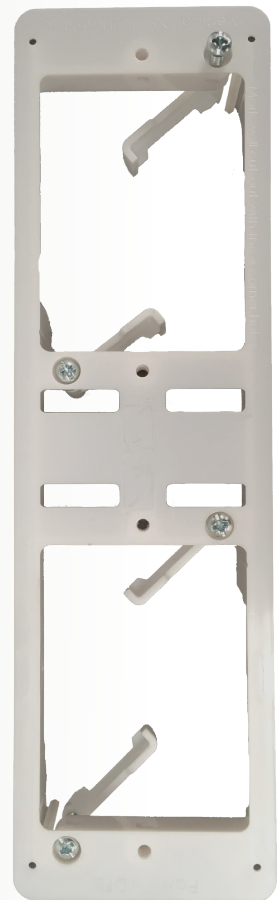
Specifications:

▼ The hole size is 220mm H x 58mm W and secures flush with the wall

▼ Includes the flush box, 4 x fixing clips and screws

▼ The flush box can be used as a template for cutting the hole in the wall by using the 4 corner holes for marking the corners of the cutout in the wall.
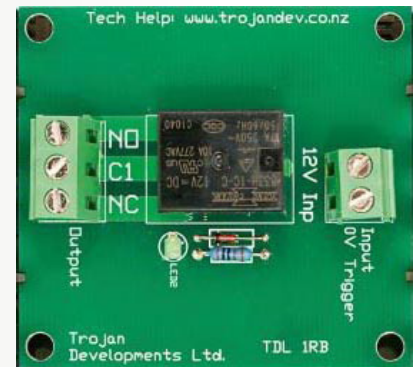
Product Code:

▼ TDL - VDFB

TDL-1RB

One Way Relay Board

The TDL-1RB is an 8 Amp Relay Board. It has 1 x 12Vdc input that switches a single pole double throw relay.

Features:

▼ Contact rated at 8 Amps AC/DC

▼ Modular unit that can be used to switch a number of devices

▼ Designed to be used as an interface between a low current switching control board and a high powered lock

▼ LED to indicate relay status

▼ Rising clamp type terminals will not damage cables and can accommodate up to a 2.5mm^2 (14AWG) cable

▼ Also designed to fit the TDL Mounting Base

Specifications:

▼ Single way Relay Board

▼ Operating Voltage 9 to 16Vdc - 38mA at 13.6 Vdc

▼ 12Vdc negative trigger input

▼ Single Pole Double Throw relay

▼ Contacts rated at 8 Amps AC/DC

▼ Dimensions: 55mm (w) x 60mm (h) x 23mm (d)

Product code:

▼ TDL-1RB

TDL-2RB
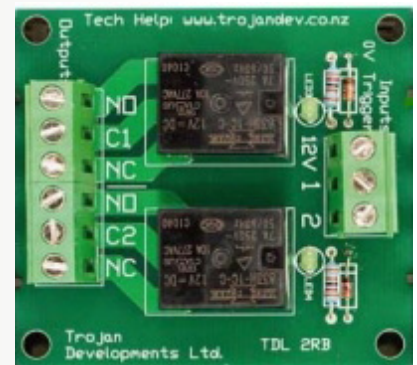
Two Way Relay Board

The TDL-2RB is a 2 way 8 Amp Relay Board. It has 2 x 12Vdc inputs that can switch 2 separate single pole double throw relays.

Features:

- ▼ Contacts rated at 8 Amps AC/DC

- ▼ Modular unit that can be used to switch a number of devices

- ▼ Designed to be used as an interface between a low current switching control board and a high powered lock

- ▼ LED to indicate relay status

- ▼ Rising clamp type terminals will not damage cables and can accommodate up to a 2.5mm^2 (14AWG) cable

- ▼ Also designed to fit the TDL Mounting Base

Specifications:

- ▼ Two way Relay Board
- ▼ Operating Voltage 9 to 16Vdc - 38mA at 13.6 Vdc per relay
- ▼ 12VDC negative trigger input
- ▼ Two Single Pole Double Throw relays
- ▼ Contacts rated at 8 Amps AC/DC
- ▼ Dimensions: 55mm (w) x 60mm (h) x 23mm (d)
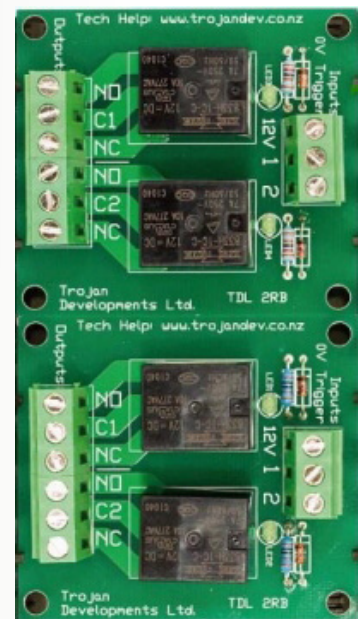
Product code:

- ▼ TDL-2RB

TDL-4RB

Four Way Relay Board

The TDL-4RB is a 4 Way 8 Amp Relay Board. It has 4 x 12Vdc inputs that can switch 4 separate 8 Amp single pole double throw relays.

Also designed to fit the TDL Mounting Base.

Features:

▼ Contacts rated at 8 Amps AC/DC

▼ Fits TDL-MB mounting base

▼ Modular unit that can be used to switch a number of devices

▼ Designed to be used as an interface between a low current switching control board and a high powered lock

▼ LED to indicate relay status

▼ Rising clamp type terminals will not damage cables and can accommodate up to a 2.5mm^2 (14AWG) cable status

▼ Also designed to fit the TDL Mounting Base

Specifications:

▼ Four way Relay Board
▼ Operating Voltage 9 to 16Vdc - 38mA at 13.6 Vdc per relay
▼ 12VDC negative trigger input
▼ Four Single Pole Double Throw Relays
▼ Contacts rated at 8 Amps AC/DC
▼ Dimensions: 110mm (w) x 60mm (h) x 23mm (d)

Product code:

▼ TDL-4RB

TDL-4FB

## Four Way Fuse

The TDL-4FB is a 4 Way Fuse Board. It has 4 individual fused outputs. Each fuse has an associated LED to indicate that the fuse is operative. The LED illuminates green for normal positive 12Vdc operation and amber for AC voltages up to 24Vac.

Features:

▼ 4 separate fused outputs

▼ The fuses are field replaceable

▼ Maximum fuse rating 5 Amps

▼ Fits TDL-MB mounting base

▼ Modular unit that can be used to protect a number of devices

▼ Rising clamp type terminals will not damage cables and can accommodate up to a 2.5mm^2 (14AWG) cable status

▼ Designed to be used as an interface between power supplies and field devices

▼ LEDs to indicate fuse status

▼ Can be used for the protection of 24Vac cameras

▼ Also designed to fit the TDL Mounting Base
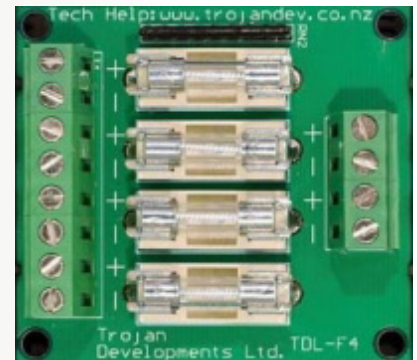
Specifications:

▼ 4-Way Fuse Board

▼ Fuse size: 20mm x 5mm

▼ Terminals for positive and negative outputs - the positive outputs are fused

▼ Suitable for AC and DC power supplies

▼ Maximum supply current per 4-way fuse board is 20 Amps

▼ Maximum output current is 5 Amps

▼ Dimensions: 55mm (w) x 60mm (h) x 23mm (d)

Product code:

▼ TDL-4FB

TDL-8FB

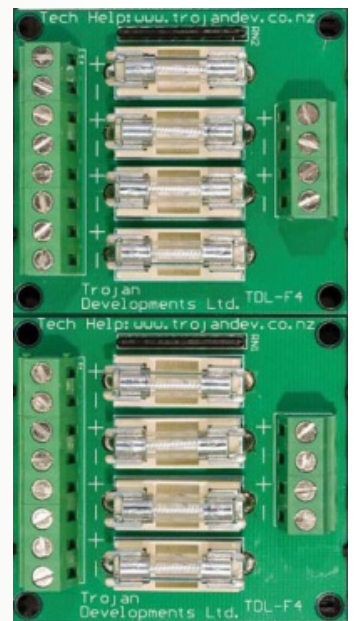## Eight Way Fuse Board

The TDL-8FB is an 8 Way Fuse Board. It has 8 individual fused outputs. Each fuse has an associated LED to indicate that the fuse is operative. The LED illuminates green for normal positive 12Vdc operation and amber for AC voltages up to 24Vac.

Features:

▼ 8 separate fused outputs

▼ The fuses are field replaceable

▼ Maximum fuse rating 5 Amps

▼ Fits TDL-MB mounting base

▼ Modular unit that can be used to protect a number of devices

▼ Rising clamp type terminals will not damage cables and can accommodate up to a 2.5mm^2 (14AWG) cable

▼ Designed to be used as an interface between power supplies and field devices

▼ LEDs to indicate fuse status

▼ Can be used for the protection of 24Vac cameras

▼   Also designed to fit the TDL Mounting Base

Specifications:

▼ 8-Way Fuse Board

▼ Fuse size: 20mm x 5mm

▼ Terminals for positive and negative outputs - the positive outputs are fused

▼ Suitable for AC and DC power supplies

▼ Maximum supply current per 4-way fuse board is 20 Amps (40 Amps Total)

▼ Maximum output current is 5 Amps

▼ Dimensions: 110mm (w) x 60mm (h) x 23mm (d)

Product code:

▼   TDL-8FB

TDL-TB

Timer Board

The TDL-TB is a multifunction timer board. It has dip switches for field selectable definitive time durations from 0.5 seconds up to 2 Hours. It is extremely versatile with 4 input modes (Off Delay, On Delay, Off Pulse & On Pulse) allowing endless application possibilities.

Features:

▼ Off Delay (loss of 0Vdc on the input gives an OFF delay on the output)

▼ On Delay (gain of 0Vdc on the input gives ON delay on the output)

▼ Off Pulse Trigger (the 0Vdc input is lost for a moment which gives an OFF delay on the output)

▼ On Pulse Trigger (the 0Vdc input is lost for a moment which gives an ON delay on the output)

▼ Time duration is easily set via the rotary dip switch, as listed on the board

▼ Set time will not drift as the components age or the temperature fluctuates

▼ On board LEDs indicate that the board has power, that the input has been operated, that the timer is counting down and that the output is triggered

▼ Rising clamp type terminals will not damage cables and can accommodate up to a 2.5mm² (14AWG) cable

▼ Also designed to fit the TDL Mounting Base
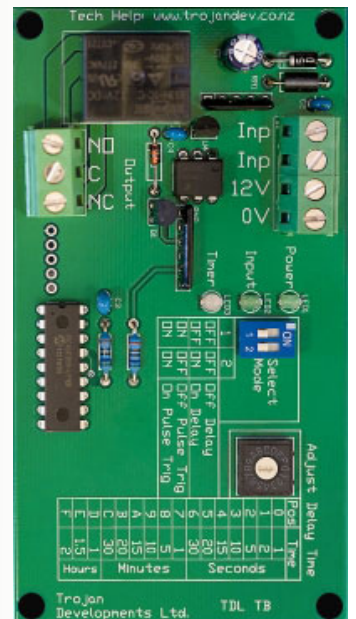
Specifications:

▼ 0.5 Second to 2 Hour selectable

▼ operating Voltage 9 to 16Vdc - 17mA at 13.6 Vdc standby and 57mA energised

▼ Input terminals for a switched contact or a negative trigger

▼ Single Pole Double Throw relay output

▼ Contacts rated at 8 Amps AC/DC

▼ Dimensions: 110mm (w) x 60mm (h) x 23mm (d)

Product code:

▼ TDL-TB

TDL-FAB

Fire Alarm Interface Board

The TDL-FAB is a Fire Alarm Interface board which allows for the control of the power to the Access Control system via an input from the Fire Alarm system to drop power from the Access Controlled doors upon fire alarm activation.

The TDL-FAB can also be daisy chained with multiple FABs such that the acitvation of the Fire Alarm input on a single board will trigger the fire alarm input on the other boards.

Features:

▼ Accepts normally closed, clean input from fire alarm

▼ Isolated Lock Power input with two Lock Power outputs

▼ Control Output to allow daisy chaining of multiple TDL-FABs from a single fire alarm system.

▼ Control Output provides power for subsequent TDL-FABs ensuring synchronisation of all TDL-FABs (single power source for all TDL-FABs).

▼ On board LEDs indicate the status of the fire alarm system input & the Lock Power output.

▼ Single Pole Double Throw relay output for fire alarm status.

▼ Rising clamp type terminals will not damage cables and can accommodate up to two 2.5mm² (14AWG) cables on the power control side & one 2.5mm² (14AWG) cable on the control side.

▼ Also designed to fit the TDL Mounting Base
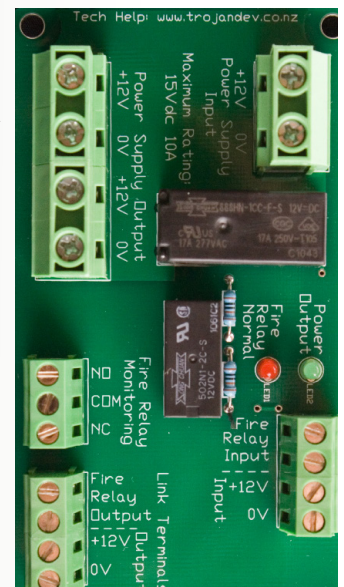
Specifications:

▼ Operating Voltage 9 to 16Vdc - 70mA at 13.6 Vdc

▼ Control Contacts rated at 15Amp's AC/DC

▼ Status Contacts rated at 8 Amps AC/DC

▼ Dimensions: 110mm (w) x 60mm (h) x 23mm

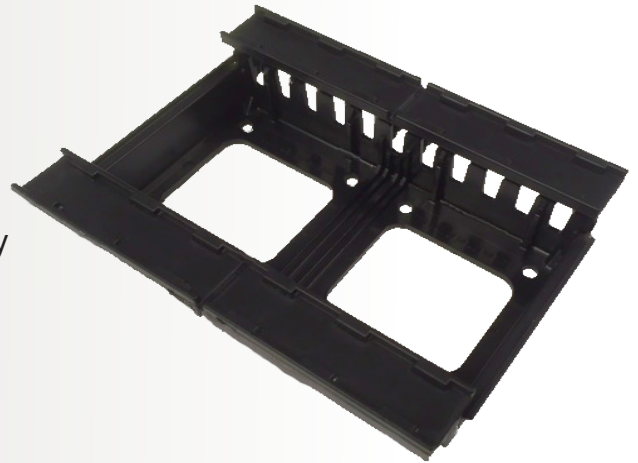## Product code:

▼ TDL-FAB

TDL-MB

Mounting Base

The TDL-MB is a universal Mounting Base for all TDL Relay, Fuse & Timer Boards. It makes installation quick, easy and tidy. Multiple TDL-MBs can be connected together to make up a complete system of relays, fuses, timers etc…

The design of the TDL-MB includes a concealed cable management system and an in-built labelling system allowing for efficient installation to be completed to a high standard."

Features:

▼ Modular design where by the holders can be connected together for multiple boards

▼ Removable label holders

▼ Reduced installation time (labour saving)

▼ High adhesion double-sided tape applied at factory with optional holes for screw fixing

▼ Heat Resistant ABS plastic construction

▼ Easy to label your devices, inputs and outputs

Specifications:

▼ Dimensions: 110mm (w) x 85mm (h) x 33mm (d)
▼ Patent Pending

Product code:

▼ TDL-MB