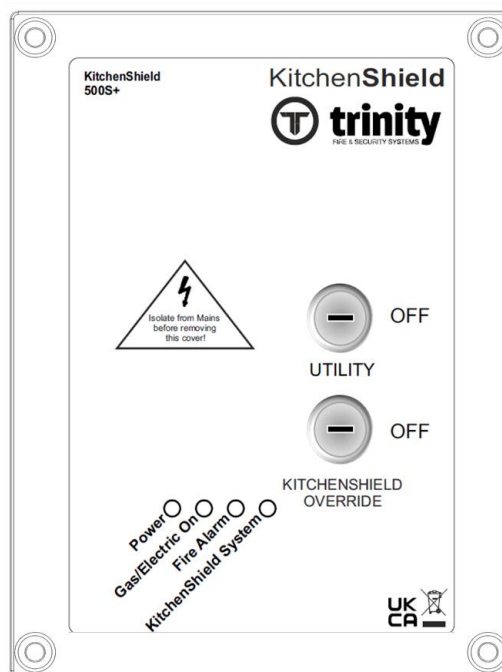


**KitchenShield**

KitchenShield trinity 500S+



Installation & Operation Manual

Please read this manual carefully and retain for future use.

The information contained within this manual should be referenced for typical installation and operation only. For specific requirements that may deviate from the information in this guide contact your supplier.

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INSTALLATION

Planning

The 500S+ is a two-zone isolation controller with two utility outputs.

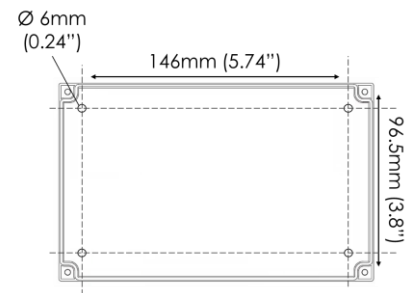
It has been designed to provide an effective way of isolating gas and electrical supply by means of the key switch on the controller or by the operation of a remote emergency shut off button or through connections with a building management system.

Mounting

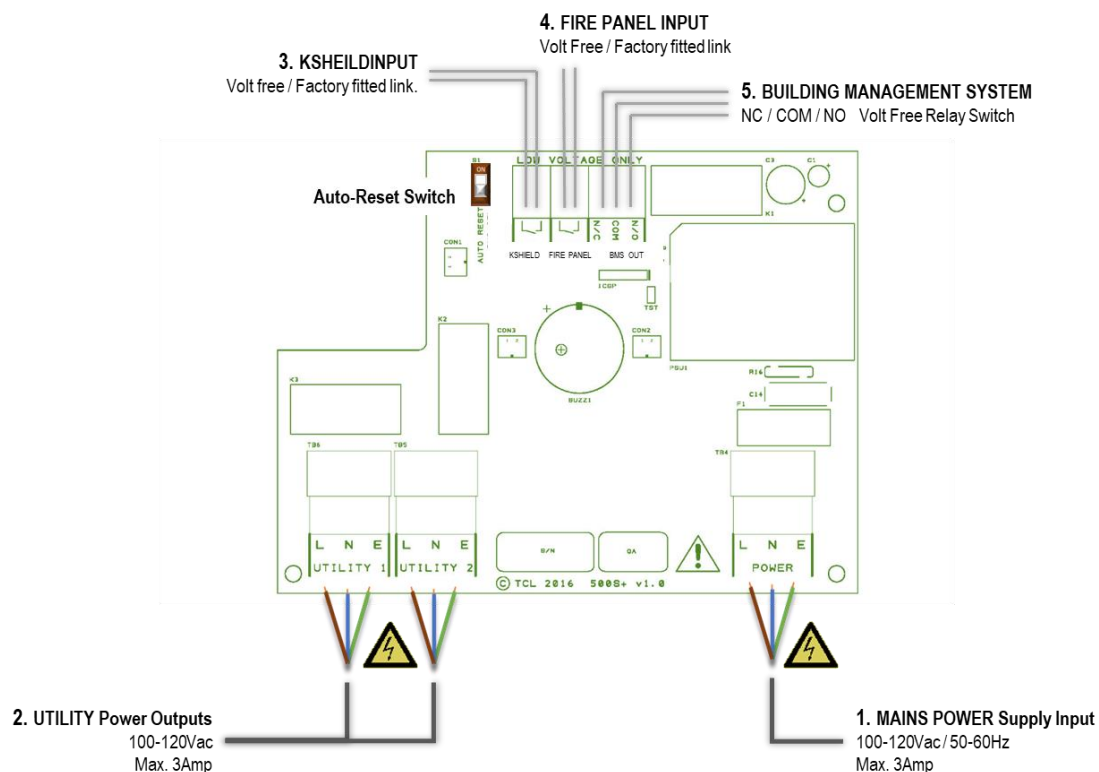
Unpack all the parts!

Designed for surface mounting, it must be installed by a licensed, insured contractor.

1. Carefully remove the front cover from the unit by unscrewing the four bolts located at each corner.
To do this – use the socket wrench provided.
2. Mark the four screw holes located on the back of the enclosure to the wall. Ensure the wall surface is flat to prevent base distortion.
3. After executing the mounting and the connections – replace the front cover and insert the security caps over the four bolts.



Board Connections Overview



Be careful when creating access for cables – Damage to boards will void any warranty!

Any damage attempting to remove the circuit board parts may void any warranty!

Wiring of different circuits shall be separated by means of routing, clamping or barrier!

1. POWER

100-240Vac mains supplied to [POWER] connection using a 3-core cable and fused at 3A.

2. UTILITY 1 & 2 POWER OUTPUTS

100-240Vac electrical power supplied from the [UTILITY 1] and/or [UTILITY 2] connectors using a 3 core cable - connected to a gas solenoid valve and/or electrical contactors which can shut the gas supply on alarm status.

3. ANSUL SYSTEM

This terminal is for external ANSUL systems detailed on the circuit board as [ANSUL SYSTEM]. This is linked out as a factory setting to represent a closed circuit.

- 1) Remove link from two pin connection on 500s labelled 'Ansul'.
- 2) Connect from ONE microswitch through to Ansul connection on 500s using Common (Red) and NC (Brown) cables.

It's doesn't matter which way around these are connected into the Ansul terminals on the 500s. The ANSUL OVERRIDE key switch, when turned on, will disable/ override any connections.

4. FIRE PANEL

Connection labelled 'Fire Panel' on 500s board is only to be used where an OUTPUT from the alarm panel is to trigger the 500s to shut off electrical power via Utility 1 and 2 connections. This is quite a rare strategy. The point being, though, that it should not be considered an output from this board. The BMS connections are the only useable output.

5. BMS OUTPUT

Terminals are available on the circuit board for Building Management Systems (BMS). The 500S+ can be integrated with a BMS to make or break a circuit on an error condition i.e. fire alarm or ANSUL system activation.

Detailed on the circuit board as [BMS OUT] (Normally Closed / Common / Normally Open). These are volt/load free connections.

Auto Reset Switch

There is a switch located on the circuit board labelled [AUTO RESET]. This is factory set to on.

ON	Instructs the system to restart automatically when power is restored after any power cut /loss.
OFF	When power is restored after a power cut/ loss, the panel has to be restarted manually.



Specification

Product:	KITCHENSHIELD TRINITY 500S+
Power Input Voltage	100-240V AC. Max.3A. 50-60Hz Single Phase
Utility 1 & 2 Output	100-240V AC. Max.3A. 50-60Hz
Internal Fuse	3.15A
Operating Temperature	0 – 50°C 30-85%RH Non-Condensing
Audible Alarm Buzzer dB	65 dB (300mm distance / controlled conditions)
Housing Material	Polylac PA-765
Flame Rating	UL 94
Approvals	CE, RoHS
O/All Dimensions (H x W x D) mm / inch	140 x 190 x 62mm (5.51 x 7.48 x 2.44")

OPERATION

First Power Up – Utility key Switch

Supply 100-240Vac electrical power.

Turn the utility key switch on (LEDs [Power] and [Gas/Electric On] on front panel will illuminate).

To turn gas and electrical supply off, turn the utility key switch off.

KITCHENSHIELD Override Key Switch

When switched on, any external shut-off systems /buttons connected via terminal, 'KSHIELD SYSTEM' will be ignored.

The switch will not work when the panel is already in alarm. When in alarm, the panel will need to be reset following correction of the fault condition.

LED Status

● POWER

On = Controller connected to mains electrical supply.

Off = No power to 500S+ or fuse not intact.

● GAS/ELECTRIC ON

On = Gas and Electrical supply OK.

Off = Gas and Electrical Supply isolated.

● FIRE ALARM (Buzzer sounds)

On = Fire panel /alarm activated. Gas and Electric utilities isolated.

Off = System operating as intended.

The cause of alarm must be investigated and rectified before restarting the 500S+ system!

● KITCHENSHIELD SYSTEM (Buzzer sounds)

On = KitchenShield system activated. Gas and Electric utilities isolated.

Off = System operating as intended.

The cause of alarm must be investigated and rectified before restarting the 500S+ system!

General Maintenance

Remove any accumulated dust/debris from the enclosure using a slightly damp cloth.

Never use detergents or solvents to clean your device.

Never paint the device. Paint will seal vents and may cause interference.

IMPORTANT WARNING STATEMENTS

Please take the time to thoroughly read this user's guide which should be retained for future reference.

It is recommended that this device be commissioned upon installation by a competent/ trained person.

Never ignore your device when in alarm. Actuation of your alarm indicates the presence of an error or significant issue that requires immediate attention.

This device requires a continual supply of electrical power – it will not work without power.

This device should not be used to substitute proper installation, use and/or maintenance of fuel burning appliances including appropriate ventilation and exhaust systems.

Your product should reach you in perfect condition, if you suspect it is damaged, contact your supplier.

Manufacturer's Warranty

Warranty coverage: The manufacturer warrants to the original consumer purchaser, that this product will be free of defects in material and workmanship for a period of three (3) years from date of purchase. The manufacturer's liability hereunder is limited to replacement of the product with repaired product at the discretion of the manufacture. This warranty is void if the product has been damaged by accident, unreasonable use, neglect, tampering or other causes not arising from defects in material or workmanship. This warranty extends to the original consumer purchaser of the product only.

Warranty disclaimers: Any implied warranties arising out of this sale, including but not limited to the implied warranties of description, merchantability and intended operational purpose, are limited in duration to the above warranty period. In no event shall the manufacturer be liable for loss of use of this product or for any indirect, special, incidental or consequential damages, or costs, or expenses incurred by the consumer or any other user of this product, whether due to a breach of contract, negligence, strict liability in tort or otherwise. The manufacturer shall have no liability for any personal injury, property damage or any special, incidental, contingent or consequential damage of any kind resulting from gas leakage, fire or explosion. This warranty does not affect your statutory rights.

Warranty Performance: During the above warranty period, your product will be replaced with a comparable product if the defective product is returned together with proof of purchase date. The replacement product will be in warranty for the remainder of the original warranty period or for six months – whichever is the greatest.



Information on waste disposal for consumers of electrical & electronic equipment.

When this product has reached the end of its life it must be treated as Waste Electrical & Electronics Equipment (WEEE). Any WEEE marked products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used. Please contact your supplier or local authority for details of recycling schemes in your area.

Installation Details

Please pass this manual to the system owner or system user.

Date of Installation:	
Installation Location:	
Organisation:	
Stamp/ Signature of the installer:	

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