

500S Utility Isolation Controller

Product Overview:

The Merlin 500S panel is designed to provide the user with an effective means of isolating any utility, via a key switch or in the event of an emergency, by operation of the emergency EPO button.

The key operated 500S product carries 3 years warranty and is fully supported by our technical team. The 500S has a fascia mounted emergency shut off button fitted as standard and the fascia mounted LEDs give simple and concise information to the operator. The panel is fully compatible with S&S remote emergency stop buttons allowing a large number of EPO buttons to be connected in series and wired back to the panel.

The 500S can be integrated with a BMS and fire alarm via a low voltage dry contact. The 500S is an excellent isolation panel. Simple to fit with little maintenance required and is covered by the full support that comes with the entire range of Merlin products.



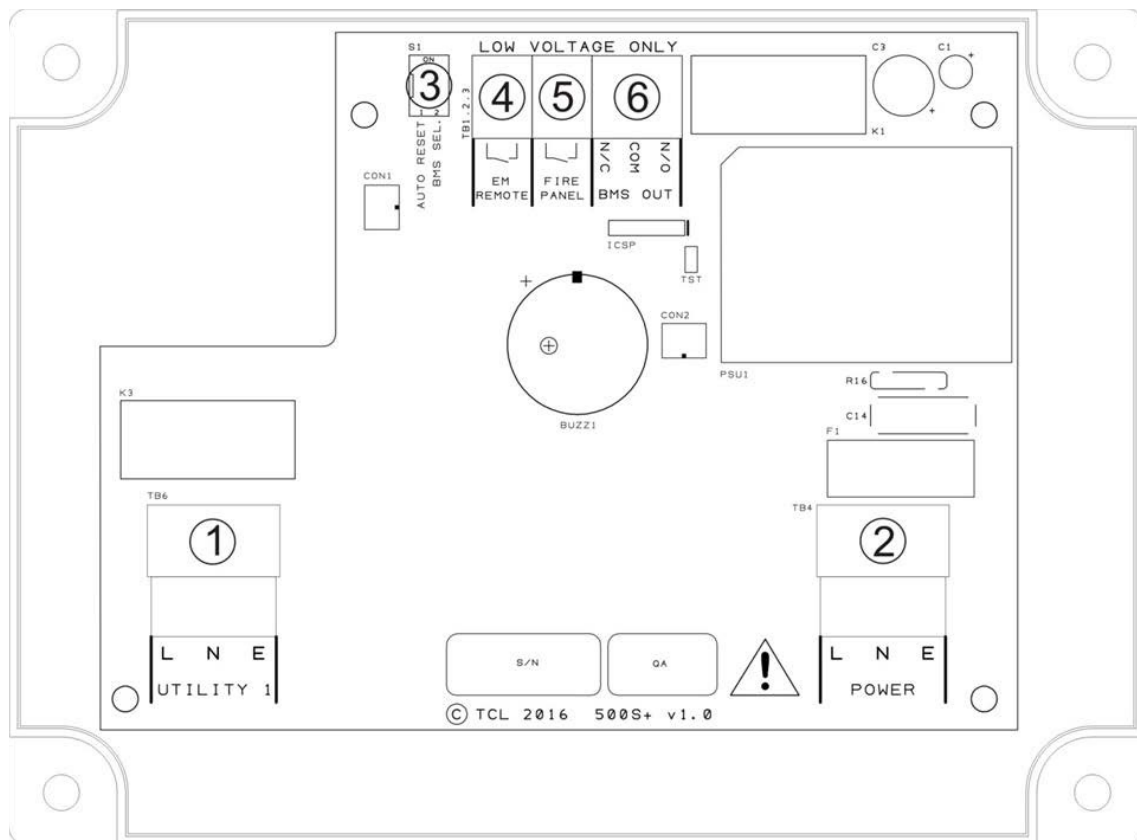
Technical Specifications

General

Model:	Merlin500S
Use:	Indoor, Safe Areas (not to be used in explosive atmospheres)
Indicators	LED
Mounting	Wall Mounting
Power Voltage Input Range	230VAC
Utility Output Range	230VAC
Dimensions (W x H x D)	140 x 190 x 62mm / 5.51 x 7.48 x 2.44"
BMS Terminal	(Normally Closed / Common / Normally Open) 1A Max @ 230VAC
EM Stop Input	Volt Free*
Fire Alarm Input	Volt Free*
Fuse	3.15A
Unit Weight (Approx.)	0.7kg / 24.7oz
Housing Material	Polylac - PA765
Ingress Protection	IP65 (Pre-Installation)
Storage Conditions	Dry. Cool. Flat
Operating Conditions	-10 ~ 50°C / 14 ~ 122°F 30 ~ 80% rh
Compliance	EN 61326-1 / BS EN IEC 61010-1

*Volt Free. Do not connect any device which generates a separate source of voltage on this circuit. Any voltage applied to these connections will damage the microcontroller.

500S PCB Overview



POWER / LINE IN

100-240vac mains power supplied to the [POWER/LINE IN] connector using a 3-core cable and fused at 3A. On connecting the mains supply to the panel the power LED indicator will light up – this is located on the front cover.

UTILITY 1

100-240vac electrical power output from the [UTILITY 1] connector using a 3 core cable can be connected to a gas solenoid valve which can shut the gas supply on alarm status. Refer to your valve manual for more information.

EM REMOTE

Open/close connections for external shut-off buttons. If using multiple shut off buttons, wire in parallel.

FIRE PANEL

Open/close connections for fire alarms.

BMS OUTPUT

Volt free connections are available on the board for Building Management Systems.

This is a relay that changes state in alarm or when the gas line is on/off and can be used in conjunction with other external relays that affect other devices and controls such as purge fans and audible alarms etc.