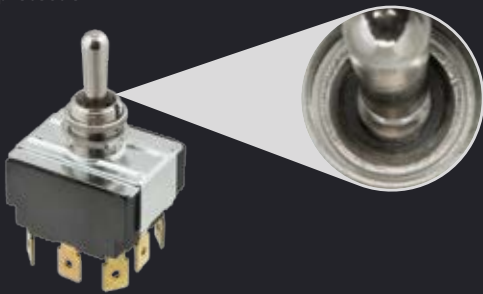




'O' Ring Seal

The Heavy & Standard Duty range of Toggle Switches feature an 'O' ring seal at the base of the actuator shaft providing increased environmental protection.



Combo Breaker/Switch

The Combo Breaker/Switch have an integrated circuit breaker eliminating the need for extra circuit protection.

Available in 5, 10, 15, 20 Amperages the Combo Breaker/Switch functions as a normal switch but will 'trip' in an overload or short circuit situation.



Environmentally Sealed

The Environmentally Sealed range of Toggle Switches are built to withstand the harshest of environments and are sealed to NEMA 3, 3R, 4, 13 and ingress rated to IP68.

Environmentally Sealed toggles are ideal for controlling critical switching functions ensuring reliable operation in even the most challenging of applications.



Accessories

A range of accessories including connectors, switch guards, half and full silicone protective boots, and a name plate are available to suit the Standard Duty, Heavy Duty and Environmentally Sealed toggle switches. Both the switch guards and toggle boots are available in a various colour options with some models conforming to Military-specification for those applications requiring the highest quality.





Toggle Switches

Environmentally Sealed 54

Heavy Duty 56

Combo Breaker/Switch 59

Standard Duty 60

Specials 62

Toggle

Environmentally Sealed

MTS-404



MTS-403



MTS-402

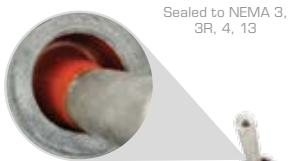


MTS-111



- Sealed to NEMA 3, 3R, 4, 13 and IP68.
- Single & double pole circuitry.
- 2 & 3 position maintained, & momentary toggle action.
- UL recognised. CSA certified.
- Up to 250V AC operation.
- High impact strength thermoplastic case.
- Flexible elastomer interface between frame and lever.
- For accessories including switch guards and boots see page 63.

Voltage :	12-24V
Current Rating @ 28V (Resistive Load) :	20A
	Momentary 15A
Contacts :	Silver Alloy
Ingress Protection :	IP68
Operating Temperature :	-40°C to 71°C
Approvals :	CE, UL, CSA
	Seal NEMA 3, 3R, 4, 13



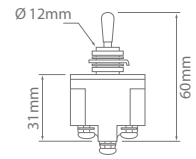
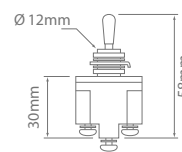
Sealed to NEMA 3, 3R, 4, 13



MTS-402



With 8497K1 switch guard fitted

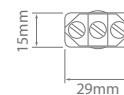


MTS-402

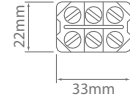


MTS-111

With TSO01-BLU boot fitted



Single Pole



Double Pole

Normally Open Contact

Action	Wiring Diagram	Notes	Voltage	Terminal	Part No.
OFF ON		Single Pole	12-24	Screw	MTS403
OFF ON		Double Pole	12-24	Screw	MTS404
OFF Mom.ON		Single Pole	12-24	Screw	MTS508

Change-over Contact

Action	Wiring Diagram	Notes	Voltage	Terminal	Part No.
ON ON		Single Pole	12-24	Screw	MTS401
ON ON		Double Pole	12-24	Screw	MTS402
ON Mom.ON		Single Pole	12-24	Screw	MTS501 NEW

Change-over Contact II - O - I

Action	Wiring Diagram	Notes	Voltage	Terminal	Part No.
ON OFF ON		Single Pole	12-24	Screw	MTS101
ON OFF ON		Double Pole	12-24	Screw	MTS102
ON OFF Mom.ON		Single Pole	12-24	Screw	MTS111
Mom.ON OFF Mom.ON		Single Pole	12-24	Screw	MTS301
Mom.ON OFF Mom.ON		Double Pole	12-24	Screw	MTS302

Toggle

Heavy Duty

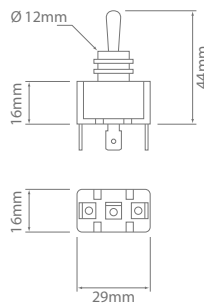


- Single, double & triple pole models available.
- Multi-voltage.
- Blade & screw terminals.
- Shaft sealed by 'O' ring.
- Wide variety of switching configurations.
- Slow-make, slow-break contact mechanism.

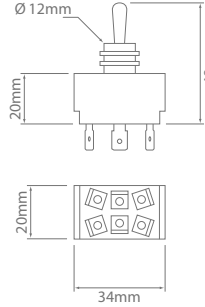
Voltage : 12-24V
Current Rating : 20A @ 4-14V, 15A @ 15-28V
Body : Phenolic
Actuator & Bushing : Nickel Plated Brass
Contacts : Silver Alloy
Approvals : UL, CSA



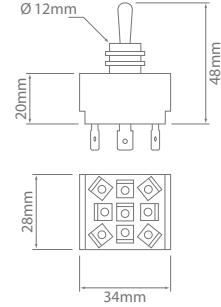
TS101A



Single Pole



Double Pole



Triple Pole



TS402A



ST325EF



With TS002 half boot



With ST0579 switch guard

Normally Closed Contact

Action	Wiring Diagram	Notes	Voltage	Terminal	Part No.
ON Mom.OFF		Double Pole	12-24	Blade	TS509E

Normally Open Contact

Action	Wiring Diagram	Notes	Voltage	Terminal	Part No.
OFF ON		Single Pole	12-24	Screw Blade	TS403A TS403E
OFF ON		Double Pole	12-24	Screw Blade	TS404A TS404E
OFF Mom.ON		Single Pole	12-24	Screw	TS508A
OFF Mom.ON		Double Pole	12-24	Solder	TS510S

Change-over Contact

Action	Wiring Diagram	Notes	Voltage	Terminal	Part No.
ON ON		Single Pole	12-24	Screw Blade	TS401A TS401E
ON ON		Double Pole	12-24	Screw Blade	TS402A TS402E
ON Mom.ON		Single Pole	12-24	Blade	TS501E
ON Mom.ON		Double Pole	12-24	Blade	TS502E



Toggle

Change-over Contact II - O - I

Action	Wiring Diagram	Notes	Voltage	Terminal	Part No.
ON OFF ON		Single Pole	12-24	Screw	TS101A
				Blade	TS101E
ON OFF ON		Double Pole	12-24	Screw	TS102A
				Blade	TS102E
ON OFF ON		Triple Pole	12-24	Blade	ST325EF
Mom.ON OFF Mom.ON		Single Pole	12-24	Screw	TS301A
				Blade	TS301E
Mom.ON OFF Mom.ON		Double Pole	12-24	Screw	TS302A
				Blade	TS302E

- Integrated circuit breaker. Will 'trip' in an overload or short circuit situation.
- Compact size.
- Broad operating temperature.
- Ideal for passenger cars, trucks, buses, RV's, portable generators.



CBW31-15

Operating Temperature : -20°C to 65°C
 Material : Thermoplastic
 Approvals : UL1077, CSA

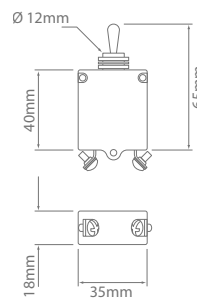
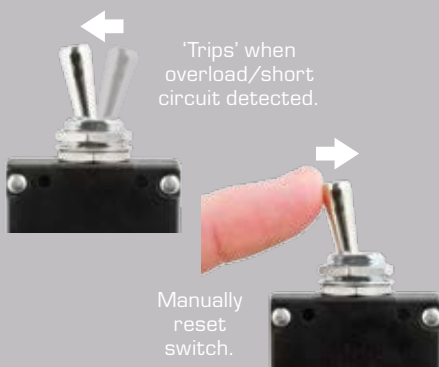


Switch & Circuit Breaker Combined

The Combo Breaker/Switch has an integrated circuit breaker eliminating the need for extra circuit protection.

The Combo Breaker/Switch functions as a normal toggle switch but will 'trip' in an overload or short circuit situation.

To reset the switch simply flick the toggle back to it's closed (on) position.

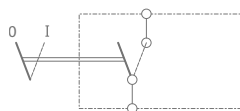


Normally Open Contact

Action

Wiring Diagram

OFF
ON



Notes

Voltage

Terminal

Circuit Breaker Rating (A)

Part No.

Single Pole

12-24

Screw

5

CBW31-5

10

CBW31-10

15

CBW31-15

20

CBW31-20



Toggle

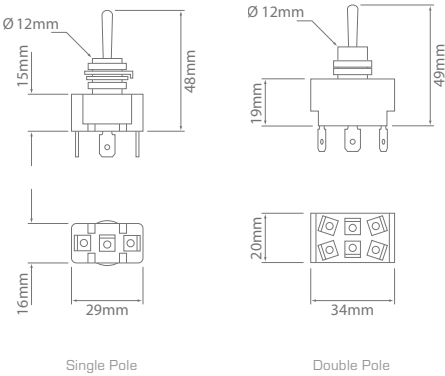
Standard Duty



12V
24V

- Single & double pole models available.
- Multi-voltage.
- Shaft sealed by 'O' ring.
- Wide variety of switching options.

Voltage : 12-24V
Current Rating : 20A @ 4-14V, 15A @ 15-28V
Body : PBT +15% Glass Fibre
Actuator & Bushing : Nickel Plated Brass
Contacts : Silver Alloy



Normally Open Contact

Action	Wiring Diagram	Notes	Voltage	Terminal	Part No.
OFF ON		Single Pole	12-24	Blade	TB403E
OFF ON		Double Pole	12-24	Blade	TB404E
OFF Mom.ON		Single Pole	12-24	Blade	TB508E

Change-over Contact

Action	Wiring Diagram	Notes	Voltage	Terminal	Part No.
ON ON		Single Pole	12-24	Blade	TB401E
ON ON		Double Pole	12-24	Blade	TB402E

Change-over Contact II - O - I

Action	Wiring Diagram	Notes	Voltage	Terminal	Part No.
ON OFF ON		Single Pole	12-24	Blade	TB101E
ON OFF ON		Double Pole	12-24	Blade	TB102E
Mom.ON OFF Mom.ON		Single Pole	12-24	Blade	TB301E
Mom.ON OFF Mom.ON		Double Pole	12-24	Blade	TB302E

Toggle

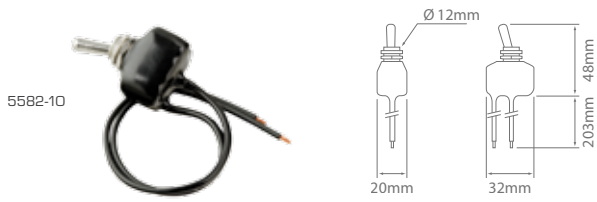
Specials



- Single & double pole models.
- Multi-voltage.
- Shaft sealed by 'O' ring.
- PVC coating for enhanced sealing and protection from the elements.

12V
24V

Voltage : 12-24V
Current Rating : 25A @ 12V, 15A @ 24V
Body : Phenolic
Actuator & Bushing : Nickel Plated Brass
Contacts : Silver Alloy



PVC Coated

Action	Wiring Diagram	Notes	Voltage	Terminal	Part No.
OFF ON		Single Pole	12-24	200mm Lead	5582-10
Mom.ON OFF Mom.ON		Single Pole	12-24	200mm Lead	55021-07















Extended Lever

Action	Wiring Diagram	Notes	Voltage	Terminal	Part No.
Mom.ON OFF Mom.ON		Double Pole 38mm Lever	12-24	Blade	55065-02

Toggle - Accessories

Accessories - Toggle

	Description	Part No.
	Switch Guard - Red - Cutler Hammer  For use with two position switches only	8497K1
	Switch Guard - Carbon Fibre Switch Guard - Blue Switch Guard - Green Switch Guard - Black Switch Guard - Red Switch Guard - Yellow	ST0574 ST0575 ST0576 ST0577 ST0578 ST0579
	Name Plate - OFF/ON	P23
 <p data-bbox="256 1111 373 1144">Silicone lip for enhanced sealing</p>	Full Toggle Boot - Grey Silicone Full Toggle Boot - Blue Silicone  Full Toggle Boot - Red Silicone  Full Toggle Boot - Yellow Silicone	TS001 TS001-BLU TS001-RED TS001-YEL
	Half Toggle Boot - Grey Silicone	  TS002
	Full Toggle Boot - Black Silicone	TB001-BLK
	6 Contact Terminal Block Suits Blade Terminal, Double Pole Heavy Duty & Standard Duty Toggle Switches AMP™ Terminal to suit	TSH 42282-2

