















ICS Switch Panel

ESM

ESM Mini

8

10

12

12V 24V

Switching Systems



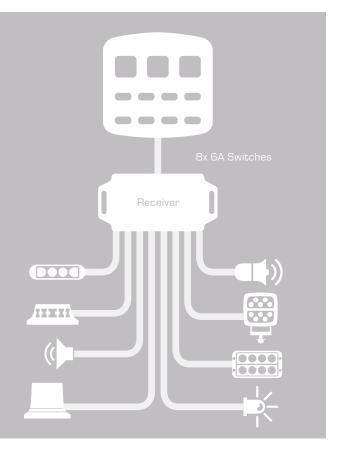


- Developed specifically to control LED lighting and other electronic automotive accessories.
- Incorporates the latest in onboard circuit protection and monitoring technology.
- Each output surge protected to 6A.
- 3 programmable master switches.
- Mounting point on back of switch panel use with common 1/4" thread adjustable mounts.
- Epoxy encapsulated receiver module for enhanced moisture and vibration protection.
- Includes 4 decals.
- 8 outputs (6A each).
- Eliminates excess wiring.
- Multi-voltage.
- Compact design.

12-24V Voltage: 8 Outputs: Max. Output Current Rating (per output) : 6A Max. Output Current Rating (total) : 40A Cable Length: 4.5m ΔRS Construction: -40°C to 85°C Operating Temperature :

The ICS Switch Panel incorporates the latest in onboard circuit protection technology. In the event of a short circuit the system immediately turns off the affected output preventing damage to the switch panel and devices controlled by it.

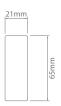
The panel provides real time feedback to the operator via LED's on both the panel and receiver module as to the state of each output.



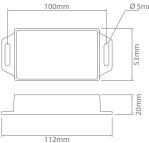


















Mounting point on back of switch panel – use with common 1/4" thread adjustable mounts. Not supplied with mount.

ICS Switch Panel Kit



Part No. ICS-01L Voltage 12-24 Kit Contains :

- 1 x Switch Panel
- x Receiver Module
- 1 x 4.5m Cable (Switch Panel to Receiver)
- 4 x Overlay Function Decals 1 x Mounting Screws & Washers 1 x Double-sided Mounting Tape









Accessories & Related Products

Part No. Description

ICS-01S Slave Receiver Module

50127 AMP Superseal kit - 3 circuits - Receptacle **50**128 AMP Superseal kit – 3 circuits – Plug

HT-4301 Parallel Crimping tool





- Electronically monitored switch centre with inbuilt circuit monitoring and protection.
- Each output surge-protected to 10A.
- 10 inputs, 13 outputs.
- 1 grouped input 4 separate outputs
- On board LEDs indicate circuit output.
- Saves space and installation time.
- Multi-voltage
- Environmentally sealed IP67.
- Available in positive, or positive/negative switched models.

12-24V Voltage: Current Draw: 10mA @ 13.8V Inputs: 10 Outputs: 13 Max. Output Current Rating (per output) : 7.5A Max. Output Current Rating (total) : 50A Construction: Polycarbonate Ingress Protection: Approvals : C-Tick Operating Temperature : -40°C to 85°C









The unit can be used in any application in which conventional circuit protection may have been used in the past.

The ESM can be used for any application from connecting auxiliary lighting off original vehicle tails lights, eg Minebar hook up, to using it to monitor and protect a range of auxiliary equipment switched off the original vehicle inputs or after market toggle, rocker switches etc.

If a short or over current condition presents on any of the outputs then the output will shut down. This will then cycle 3 times (on/off)

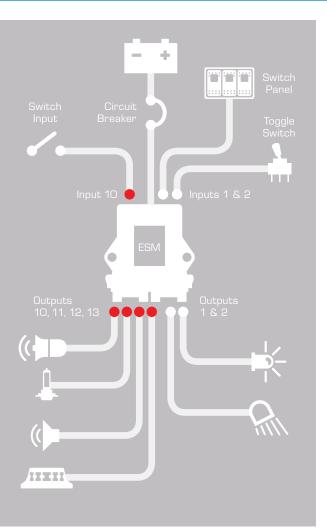
If the over current situation is still present the output will then shut down permanently until the input is turned off.



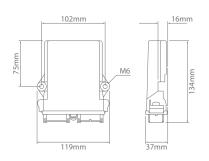
Inputs 1 to 9 controls outputs 1 to 9 respectively

Input 10 controls outputs 10, 11, 12, 13.

Inductive loads must not be used on the input or output circuits without additional external protection. Failure to do so will result in damage to the unit and will void warranty.











ESM

Part No. Switching Notes

ESMO013 Positive —

ESM2013 Positive & Negative SM2013 will switch on both positive or negative inputs, diodes may be required to prevent false triggering.

















Accessories & Related Products

Part No. Description **ESM9**001 Connection Kit

DE-DET**-20** Crimp tool. Size 20

HDT-48-**00** Crimp tool. Size 12, 16, 20 & 22

DE-DET-**RT** Multi-use hook tool

CB285XX Circuit breaker – Surface Mount Series

XX are current rating (A), available in 25, 30, 40, 50, 60, 70, 80, 100, 120, 150

CB255-XX Circuit breaker – Panel Mount Series

XX are current rating (A) in numbers, available with 10, 15, 20, 25, 30, 35, 40, 50

AMIXX AMI Fuse Series

XX are current rating (A) in numbers, available with 30, 40, 50, 60, 70, 80, 100, 125, 150, 175, 200

AMIFH AMI Fuse holder – Surface Mount





- Electronically monitored switch module with inbuilt circuit monitoring and protection.
- Each output surge protected to 8A.
- 6 inputs, 6 outputs 12V.
- 5 inputs, 5 outputs 24V.
- Compact design.
- Save space and installation time.
- Eliminates excess wiring.
- Multi-voltage.
- Epoxy encapsulated for enhanced moisture and vibration protection.



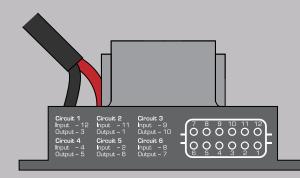
Voltage: 12-24V Inputs: 6 x 12V 5 x 24V Outputs: 6 x 12V 5 x 24V Max. Output Current Rating (per output): 7A Max. Output Current Rating (total): 20A ABS 120mm Cable Length: -40°C to 85°C Operating Temperature :

The ESM Mini is a compact, electronically controlled switch module with inbuilt circuit monitoring and protection

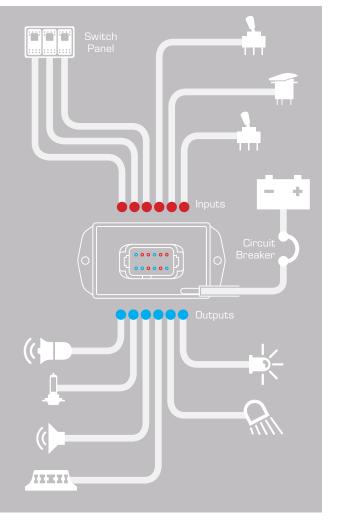
The unit can be used in any application where conventional

The ESM Mini can be used for any application, from connecting auxiliary lighting off original vehicle tails lights, eg Minebar hook up, to monitoring and protecting a range of auxiliary equipment switched off the original vehicle inputs or from after market toggle, rocker switches etc.

If a short circuit or over current condition presents on any of the outputs then the affected output will shut down. This circuit will then cycle 3 times (on/off) and if the over current situation is still present the output will then be locked in the off state until the fault is rectified and the input is reset.

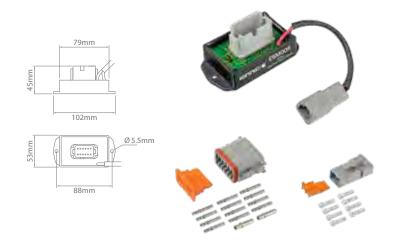


Inductive loads must not be used on the input or output circuits without additional external protection. Failure to do so may result in damage to the unit and will void warranty.









ESM Mini Kit

Part No. Switching Kit Contains :

1 x ESMOO6 Control Module **ESM**006 Positive

1 x ESMOUG Control Module
1 x Connector (DTO6-12SA)
1 x Wedge (W12S)
8 x Sealing Blank Size 12–6 (114017)
12 x Socket Size 16 Green Band (0462-209-16141)
1 x Connector (DTP06-2S)

1 x Wedge (WP2S) 2 x Socket Size 12 (0462-203-12141)











Accessories & Related Products

Part No. Description

DE-DET12 Crimp tool. Size 12 DE-DET16 Crimp tool. Size 16

HDT-48-**00** Crimp tool. Size 12, 16, 20 & 22

DE-DET-RT Multi-use hook tool

CB255-XX Circuit breaker - Panel Mount Series

XX are current rating (A) in numbers, available with 10, 15, 20, 25, 30, 35, 40, 50

P-WSBFH/5 ATC fuse holder kit - 30A

Kit Contains: $5 \times 10^{-5} \times 10^{-5$

BFXX/10 ATC/ATO Blade Fuses, pack of 10

XX are current rating (A) in numbers, available with 1, 2, 3, 4, 5, 7.5, 10, 15, 20, 25, 30, 40

