



ICS Switch Panel

The ICS Switch Panel has been developed specifically to control lighting and other electronic automotive accessories and incorporates the latest in onboard circuit protection technology.

The switch panel and receiver communicate using a proprietary signal which allows the switching system to be configured using a single receiver module for typical applications, or with additional slave receiver modules on larger systems or vehicles.



R.F. Remote Control

Radio Frequency (RF) remote control (Radio Remote Control page 14) utilises radio frequency transmission to instantly pass data from one point to another without the restriction of physical wiring or cables.

RF does not require line of sight and does not have to be aimed at a specific point in order to be detected. RF is emitted in all directions from the transmitter and can pass through physical structures making it an extremely useful communication method.



Tipping Point

All fuel tankers are required to shutdown their electrical systems in the event of a roll over. Accuracy and reliability is paramount in this circumstance as a faulty or poorly designed sensor can lead to all truck electricals being turned off mid corner with disastrous results.



iROS (Rollover page 16) uses a 2-axis accelerometer along with sophisticated software to monitor both angle and G-forces to determine if a rollover has really occurred before sending out the signal to turn off the power.

This same detection technology is also used in the iROS-T (Tipper page 17) to help alert drivers to dangerous lean angles while raising their tipper bodies. A three staged warning gives the operator ample time to stop the body raising, potentially saving lives and equipment damage.



CS Switch Panel	CS	Switch	Panel
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ESM Mini

Radio Remote Control

Rollover

Tipper

Voltage Sensor

Headlights On Units

Hand Brake Alarm Module

IONNIC Idle Timer

Idle Timers

Low Coolant Alarm

Speed/Frequency Switch

Introducing the new IONNIC ICS Switch Panel

New vehicles have proven to be increasingly difficult when it comes to installing electrical accessories, including finding a location to place the required number of switches.

With this in mind IONNIC has developed an advanced switching system able to directly control the majority of products in the IONNIC range.

The IONNIC ICS Switch Panel features 8 individual switches and 3 user configurable master switches, capable of activating any combination of those 8 circuits, with one press of a button. All of this contained in a stylish, compact and easy to install back-lit panel that looks at home in cars, 4WD's, trucks or earthmoving equipment.

Developed to control all types of lighting and other electronic automotive accessories, the multi-voltage ICS Switch Panel has built-in circuit protection, eliminating the need for fuses or circuit breakers and has a maximum output of 40A across the 8 circuits.





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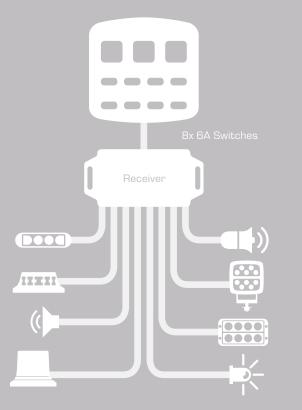


- Developed to control lighting and other electronic automotive accessories.
- Incorporates the latest in onboard circuit protection and monitoring technology.
- Each output surge protected to 6A.
- 3 user configurable master switches.
- All switches can be set to latching or momentary.
- Mounting point 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).
- Multiple outputs can be combined to allow switching of high current loads.
- Eliminates excess wiring.
- Multi-voltage.
- Compact design.

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

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.





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12V 24V

69mm 100mm <u>Ø5</u>mm 21mm 53mm 55mm 20mm Receiver Module 112mm Mounting point on back of switch panel – use with common 1/4" thread adjustable mounts. Not supplied with mount. ▶ Watch video

ICS Switch Panel – Kit 📟

Part No. ICS-01 Voltage 12-24

- Kit Contains: 1 x Switch Panel 1 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



ICS Switch Panel – Accessories & Related Products

Part No.	Description
ICS-01S	Slave Receiver Module
50 127	AMP Superseal kit – 3 circuits – Receptacle
50 128	AMP Superseal kit – 3 circuits – Plug
HT -4301	Parallel Crimping tool

HT-4301



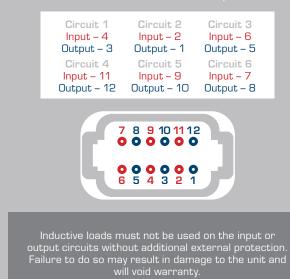
- Electronically controlled switch module with inbuilt circuit monitoring and protection.
- Each output surge protected to 8A.
- 6 inputs, 6 outputs 12V.
- 5 inputs, 5 outputs 24V.
- Compact design.
- Save space and installation time.
- Eliminates excess wiring.
- Multi-voltage.
- Epoxy filled for enhanced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

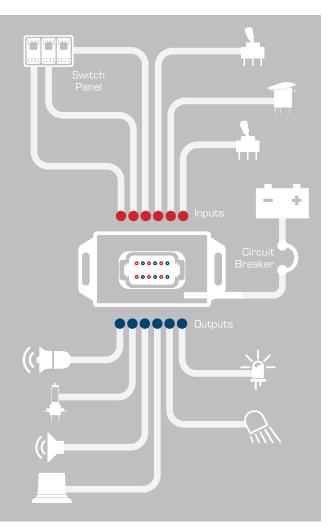
Voltage :	12–24V
Inputs :	6 x 12V, 5 x 24V
Outputs :	6 x 12V, 5 x 24V
Max. Output Current Rating (per out	cput): 7A
Max. Output Current Rating (total) :	20A
Body :	ABS
Cable Length :	120mm
Operating Temperature :	-40°C to 85°C

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 circuit protection may have been used in the past.

The ESM Mini can be used for any application, from connecting auxiliary lighting off original vehicle tails lights, e.g. 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.





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12V 24V



ATC fuse holder kit – 30A

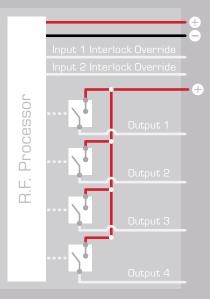


- 4 output, user programmable remote switching system.
- Up to 90 metre range.
- Rolling codes, secure encryption.
- Multiple transmitters able to be paired with single receiver.
- All 4 outputs can be momentary or latching.
- Hard-wired interlock feature on 2 outputs.

Frequency : Current Rating : Fob Battery : Transmitter Battery Life : Receiver Cable Length : Encryption :

90m 433 MHz 5A max. per output 1 x CR2O32 100,000 activations 300mm Rolling Codes

DIP Switches





R15-R12-F, R15-R24-F

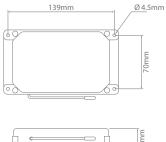
Radio Remote Control – Kits

Part No.	Voltage	Contents	
R15-R12-F	12	1 x R1500-R12, 1 x R1000-TF4	
R15-R24-F	24	1 x R1500-R24, 1 x R1000-TF4	



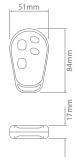






150mm

R1500-R12, R1500-R24



R1000-TF4



R1500-ADP-HNS

Radio Remote Control – Components

Part No.	Voltage	Description
R1500-R12	12	Receiver
R15 00- R 24	24	Receiver
R10 00- TF 4	—	Transmitter – Fob style. Suits 12V or 24V
R1500-ADP-HNS	—	10 Pin to 8 Pin harness. May be required if replacing older R1500-R12 models



Housing : Compliance : 10–30V Die-cast AS2809



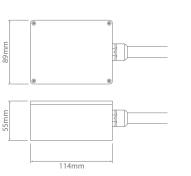
Intelligent Rollover Switch

The iROS uses a 2 axis accelerometer to determine angle and G-force. The output will only be switched if all of the criteria for angle and motion are met and held for a set period.

The iROS has an input for a 'System Test' button that when pushed and held will activate the sensor to the rollover point, making testing a simple task.

Compliant to AS2809, the iROS will activate any of the remotely

switched battery solation switches commonly used on the Australian market.





Rollover

Part No. **IROS**

10V 30V

Description
AS2809 compliant rollover switch

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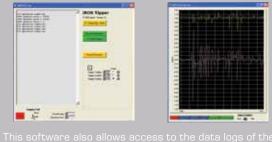
- Determines when there's an unsafe lean on a raised tipper body.
- Solid state electronics.
- Microprocessor controlled.
- Multi-voltage.
- Data logs the last 15 activations.
- Conducts system self-tests.



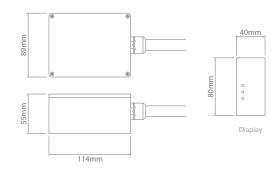
Voltage : Housing : **Connector Ingress Protection :**

10-30V Die-cast IP65



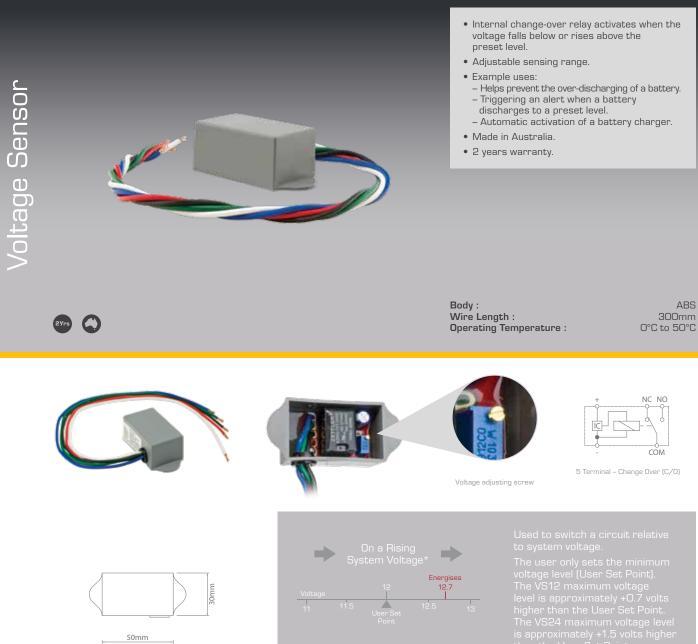




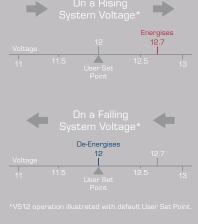


Tipper

Part No. IROS-T **IROS-T-USB** Description Kit includes sensor unit & connector, display and 1.8m harness Proprietary cable required to program iROS-T. Includes software disc



24mm 70mm

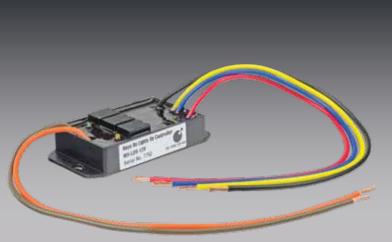


Voltage Sensor

Part No.	Voltage	Current Rating (A)	Adjustable Sensing Range (V)	Factory Tri Minimum Voltage	gger Setting Maximum Voltage
VS 12	12	10	9.0 - 16.0	12.0 ± 0.2	12.7
VS 24	24	10	18.0 – 35.0	24.0 ± 0.2	25.2



- Designed to operate park & low beam lights any time vehicle ignition is on.
- Can be wired to disable control unit eg. hand brake switch, door switch.
- 10 seconds start up delay.
- Compact easy installation.
- Diagnostic LEDs.
- Available in positively and negatively switching models.
- Epoxy filled for enhanced moisture and vibration protection.
- 2 year warranty.



Ø 5.5mm

48 m m

24mm

t

86mm

95mm

Headlights On Units

Body : Wire Length : Operating Temperature :

ABS 200mm -40°C to 70°C



Headlights On Units

Part No.	Description
MS-LOR-12V	Suits any negatively switched headlight
MS-LOP-12V	Suits any positively switched headlight
MS-LOR-12V-KIT	Suits Toyota Hi-Lux up to 2011 model. Supplied complete with plug-in harness

Installation on late model multiplexed vehicles must be performed by a qualified technician.



- Can be adapted to any vehicle.
- Self learning function automatically detects vehicle triggers for quick and easy installation.
- Designed to signal when hand brake is not engaged and vehicle door opens.
- Satisfies mine site requirements.
- 2 stage outputs.
- Compact easy installation.
- Suitable for positive and negatively switched vehicles/applications.
- Epoxy filled for enhanced moisture and vibration protection.
- Can be used as a general 2 stage alarm module.
- 2 year warranty.

Voltage : Current Rating : Body : Wire Length : **Operating Temperature :**

12-24V 2 x 4A @ 12V ABS 150mm -40°C to 70°C

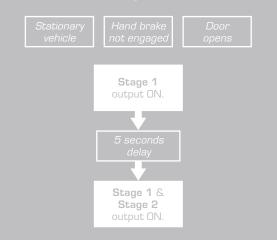


100mm

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Hand Brake Alarm Module

Description

Part No. MS-HB01

Suits any positive or negatively switched vehicle

<u>Ø 5</u>mm

20mm

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Idle Timer - IONNIC

Part No.	Description					
IT11450	Idle Timer controller unit					
ITBKT	Optional mounting bracket. Powder-coated aluminium					
B6 57	Optional warning buzzer					
IT10451	Harness with stainless steel push butto	on switch & engraved label – 1.8m				
IT11451	Harness with toggle switch, boot & pilot light – 1.8m					
IT10452	ldle Timer Kit – push button switch	Kit contains: 1 x IT11450, 1 x IT10451				
IT11452	ldle Timer Kit – toggle switch	Kit contains: 1 x IT11450, 1 x IT11451				





Idle Timer – Gauge Mount

Part No.	Voltage	Current Rating (A)	Outputs	Energise to	Time Intervals (min)	Park Brake Override	Description
CST 500	12–24V	10A max.	1	Run	Fixed @ 5	No	Relay driven output



Low Coolant Alarm – Kits

Part No. Descripti		tion	Module	
Fart NU.	Description		WL601LP	8015002
WL -1	10A Module with	Threaded Probe	٠	_
WL -2	10A Module with	Multi-fit Probe	٠	—
WL -3	3A Module with	Threaded Probe	—	•
WL -4	3A Module with	Multi-fit Probe	—	•

All components available separately.

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Probe

WL601P

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WL601PS1

Pilot Lamp

BA16DS-RED

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Buzzer

B657

- Selectable frequency via DIP switches.
- Designed to work with all standard signal inputs e.g. magnetic pick up, computer signal, ignition coil, sensor.
- Ground signal sent once predetermined frequency has been reached.
- Adjustable hysteresis to help prevent chattering at the switch point.
- LED indicates activation.
- Epoxy filled for enhanced moisture & vibration protection.
- 12 or 24 volt operation, selectable via DIP switch.



Speed/Frequency Switch

Voltage : Current Rating : Hysteresis : Input Frequency : Input Signal : Input Voltage : 12V or 24V (selectable) 3A @ 12V Adjustable 10 - 12,000 Hz Sine, square wave 1.5VAC - 50VAC



Speed/Frequency Switch

 Part No.
 Description

 SS301
 Multi adjustable frequency switch