

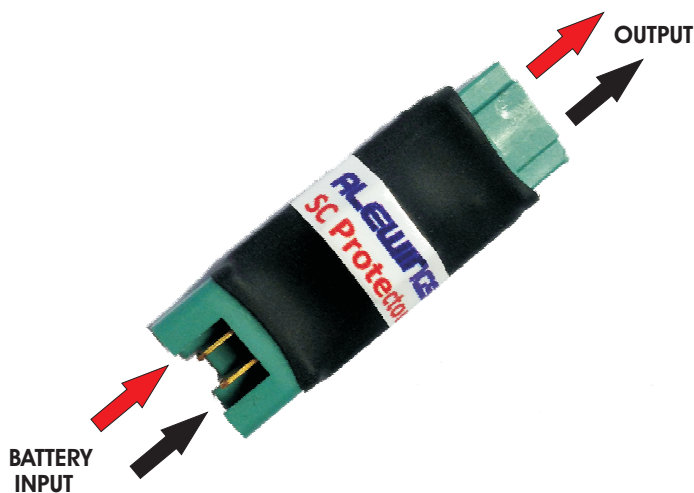
Cod. 90040304

Short Circuit Protector 70A

USAGE MANUAL V1.0

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PICTURE 1



Dear Customer,
Thank you for purchasing the Alewings Short Circuit Protector 70A.

It is a circuit for protection against short circuits and/or overcurrent and it can be very useful in many cases.

Connected between the battery and any device to be supplied, it works as an auto-resetting fuse in case of short circuit or malfunctioning of the supplied device.

It too frequently happens that a malfunctioning of a pump system (for refuelling or for smokes) or a starter electric motor blocked generate a flow of current so high to cause a start of fire of the device itself or of the batteries.

If a flow of current too high occurs, the Short Circuit Protector 70A temporarily cuts the power supply, avoiding any risk of fire and, after a short lapse of time, it auto- resets.

The SCP70A is the right device for reducing risks related to the use of LiPo batteries and it is very usefule for protecting, for example:

- Refuelling pumps
- Smoke pumps on the model
- Electric starters
- Cars starter boxes

It comes with MPX type connectors.

FEATURES

- Reverse battery protection
- Overload protection
- Short circuit protection
- Current limitation 130A
- Over temperature protection
- Over voltage protection (including load dump)
- Clamp of negative voltage at output
- Electrostatic discharge (ESD) protection

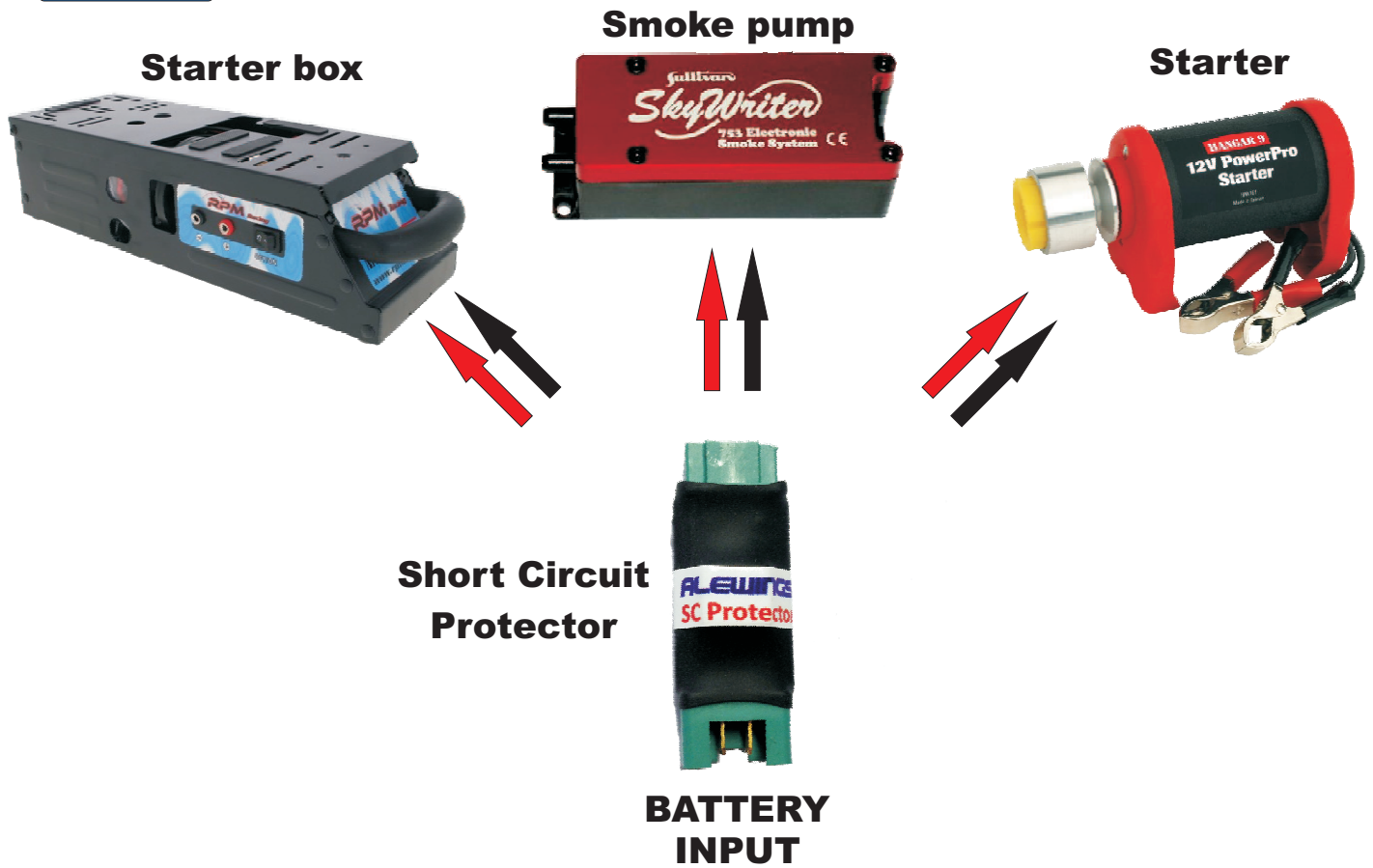
CONNECTIONS

The device has an input and an output with MPX type connectors:

- Connect the battery to the "Battery input"(see picture 1)
- Connect the device to be supplied to the output (see picture 1)

NOTE: the Short Circuit Protector 70A is protected against inversion of polarity in input but it is necessary to pay attention not to invert polarity when connecting the SCP70A to the device to be supplied.

After using it is recommended to disconnect the battery.

EXAMPLE**WARNING**

- Disconnect batteries after using
- Current drain:: about 400mA in 1 month if unused (600uA @ 7.4V)
- Pay maximum attention when connecting the SCP70A to the device to be supplied: inversion of polarity in output may damage the supplied device.

WARNING

- This is not a toy.
Pay close attention to the following points, as the non observance of them can destroy the product, nullify your warranty and lead to property damages or personal severe injuries!
- Never leave the product unattended while it is switched on, in use or connected with a power supply. If a defect occurs, it could set fire to the product or to the surroundings.
 - Avoid incorrect connections or connections with reversed polarity.
 - All wires and connections have to be well insulated. Short-circuits might destroy the product.
 - Never allow this product or other electronic components to come into contact with water, oil, fuels or other conductor liquids, as these could contain minerals, which are harmful for electronic circuits. If this happens, stop the use of your product immediately and let it dry carefully.
 - Always wire up all the parts of the equipment carefully. If any of the connections loosens, due to vibrations, you might damage your device.
 - Never cut off or modify the original plugs
 - Never change the polarity of the receiver connectors
 - Do not open the product and never solder on the PCB

SPECIFICATIONS

Operating voltage:	from 5V to 34V
Allowed battery:	Nixx, Li.Poli, LiFe
Dropout voltage regulator:	120mV @ 20A
Max load:	70A continuous
Short circuit current limit	130A
Current drain	600uAH (400mA in a 1 month)
Dimensions:	48x17x8mm
Weight:	7gr
Working temperature:	-10 up to +60 °C

These specifications may be changed without advance notice.

WASTE DISPOSAL

At the end of its life cycle this product is subject to special waste disposal and it cannot be disposed with urban waste