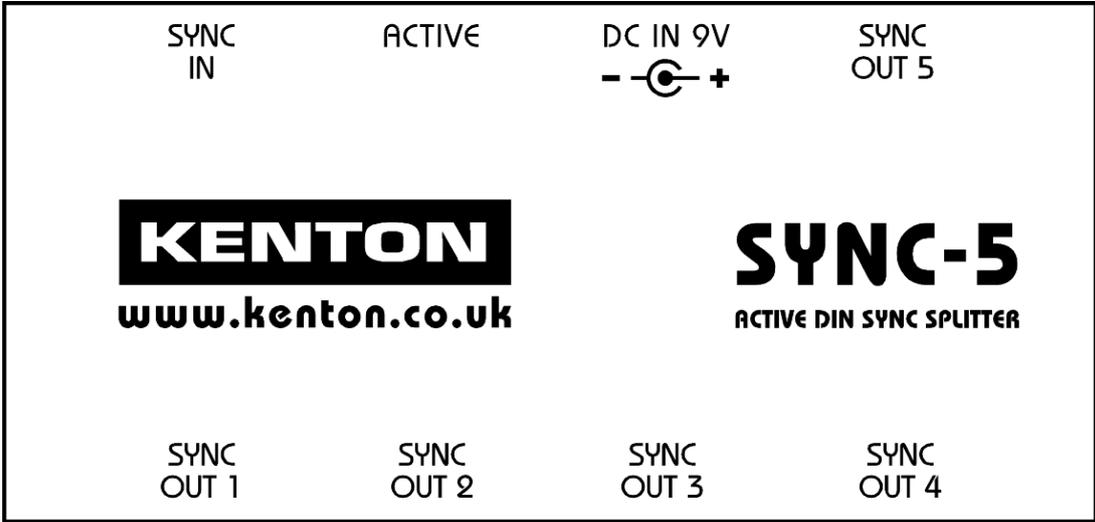


KENTON

SYNC-5

1 into 5 active DIN Sync Splitter Box



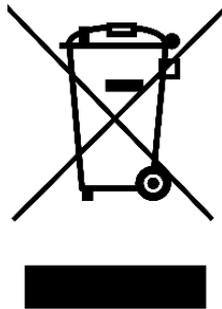
Operating manual

FCC Statement for SYNC-5

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Information on Disposal for Users of WEEE



This symbol on the product and / or accompanying documents means that used electrical and electronic equipment (WEEE) should not be mixed with general household waste. For proper treatment, recovery and recycling, please take this product(s) to designated collection points where it will be accepted free of charge.

Alternatively, in some countries, you may be able to return your products to your local retailer upon purchase of an equivalent new product.

Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling.

Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with your national legislation.

For disposal in countries outside of the European Union

This symbol is only valid in the European Union (EU). If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Description

The SYNC-5 has one DIN Sync Input and five DIN Sync output ports to enable you to connect several DIN Sync devices to one DIN Sync controlling device, without the usual problems encountered when daisy-chaining devices.

The SYNC-5 outputs are all short circuit proof and each output can drive at least 2 sync inputs if required (however you'll need splitter cable). The SYNC-5s active circuitry also restores the quality of signals received at the DIN Sync Input for optimum performance.

The SYNC-5 is powered by a mains adaptor (supplied), so it doesn't need periodic battery changes to keep it working, enabling you to "fit and forget".

Connecting

Ensure that the power adaptor is plugged in, and the ACTIVE LED on the SYNC-5 is on. Connect the DIN Sync output of your sequencer or drum machine to the DIN Sync Input of the SYNC-5 and connect one or more of the DIN Sync Out ports of the SYNC-5 to the DIN Sync inputs of the devices you want to synchronise.

Operation

The 'active' LED will be lit when the unit is powered on. When sync is applied, the LED will flash with the sync pulses at low tempos, however at higher tempos the flash will become too fast to see and the LED will just appear to be on, but at a slightly lower brightness. If a 'start' signal is present but no sync, the LED will go out.

Although intended primarily for use with Roland equipment (24 clocks per quarter note), the SYNC-5 can also be used with Korg equipment (48 clocks per quarter note) although it cannot convert between the two.

The DIN Sync outputs of the SYNC-5 give approximately +5 volts when high which is enough to drive all DIN Sync Inputs. The DIN Sync Input of the SYNC-5 will accept any voltage up to +15 volts so can be connected to the output of any DIN Sync equipment without any problem.

All 4 signal pins are connected between input and output although in most applications only Stop/Start (pin1) and Clock (pin3) are used. The ground connection (pin 2) is always used.

For your reference DIN Sync connectors are wired as follows:

Pin

- 1 – Stop / Start
- 3 – Clock
- 4 – Reset & Start (may differ on some devices)
- 5 – Fill In (may differ on some devices)
- 2 – Ground

If looking at the solder terminals of a DIN **plug** with the pins arranged in a semicircle at the bottom (like a smile) then the pin numbers going left to right are 3,5,2,4,1.

Specification

Power	9V DC @ 10mA (regulated or unregulated) – never apply more than 12V (never use an unregulated supply greater than 9V as unregulated supplies typically give a higher output than shown)
Power Input	2.1mm plug (centre positive)
Sync In / Out	1 x 5 pin DIN input, 5 x 5 pin DIN outputs
Weight	110g (excluding power supply)
Dimensions	100 x 46 x 32 mm
Power supply	An energy efficient switch-mode PSU is supplied with unit. Unit will be shipped with a power supply appropriate to the destination country. UK, EU, US & Australian types are available.

Warranty

The *SYNC-5* comes with a 12 month (from purchase date) back to base warranty, (i.e. customer must arrange and pay for carriage to and from Kenton Electronics Ltd).

KENTON

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