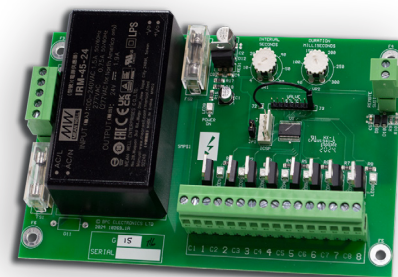
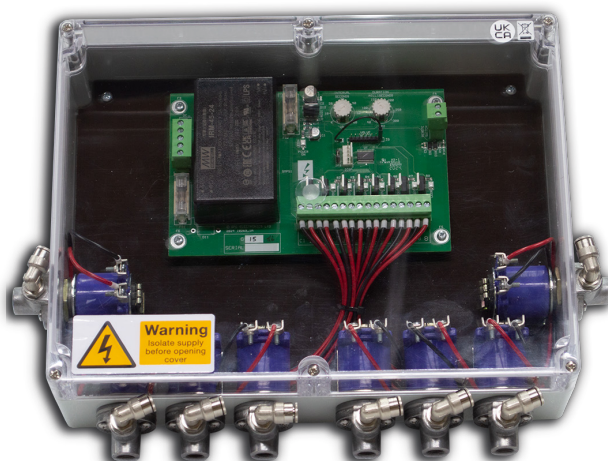


KX395 1-8 Way Sequence Controller

CONTENTS

System Overview	1
Models and Options	2
Set-up Procedure	3
Technical Specifications	5
Wiring & Controller Diagrams	6-10



System Overview

The **KX395 Sequence Controller PCB** is the pulsing heart of our range of tried and tested Reverse Jet Stations. Aimed primarily at Dust Extraction and Air Flow applications, this sequencer has an electronic control system and responds to a simple volt-free open circuit. The unit is fully versatile for input voltage, output voltage, number of ways, pulse length and time between pulses. You select the number of ways by ordering an 8 way unit. Each unit has an on-board selector to pulse any number of ways you like up to the nominal. In other words, an 8 way unit covers all the options up to 8 ways. Available input and output voltages are 24Vdc or 100-240Vac - see the table on page 2 for a breakdown.

Pulse Duration and Pulse Interval are adjustable as standard on all models. The **KX395** is offered as a naked PCB ASSEMBLY or housed in a robust, IP65 rated, plastic enclosure as a SEQUENCE CONTROLLER or complete with pilot valves (and pipe fittings if required) - also in an IP65 plastic enclosure - as a REVERSE JET STATION. Reverse Jet Stations can be ordered with the following number of solenoids fitted - 1, 2, 3, 4, 5, 6, 7, 8.

KX395 1-8 Way Sequence Controller

Models and Options

The following is a table of models (-G...) available in the ZX395 Sequence Controller PCB. The features incorporated with each model are shown as well as a reference drawing number.

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	FEATURES	REFERENCE DRAWING
-G4	110-240Vac	110Vac	Pressure Switch Control (PSC)	KX395G4800
-G10	24Vdc	24Vdc	Pressure Switch Control (PSC)	KX395G10800
-G15	100-240Vac	24Vdc	Pressure Switch Control (PSC)	KX395G15800

Drawing references shown are all for 8 way boards.

To order by part number, start by stating the board type, "KX395" followed by the "-G..." number. e.g. an "8W KX395-G15" is an 8 way KX395 pcb with 100-240Vac in, 24Vdc out.

Standard Unit Ordering Part Numbers:

KX395-G4

KX395-G10

KX395-G15

KX395 1-8 Way Sequence Controller

Set-up Procedure

The following is a flow chart of the set-up procedure for the KX395 Sequence Controller PCB. The options available at each stage are explained in an easy to follow format.

STAGE 1

Power Supply

Wire an isolated power supply into appropriately marked terminals at lower-left hand area of the board.

DO NOT SWITCH ON

Double check that supply is correct for model ("G" no.) and wired into correct terminals. On 240/220/110Vac input models ensure that the 115/230 SWITCH adjacent to the power terminals is set to the appropriate incoming voltage. For safety reasons, this link is factory set for 230V (for 240/220Vac).

STAGE 2

Remote Control Switch (RCS)

This unit pulses when there is an open circuit across REMOTE SWITCH terminals (TB2). Connect the volt-free N/C contacts of a remote-control switch across these terminals to cause the board to pulse whenever pressure opens the contacts! Of course it doesn't have to be a remote-control switch, you can use any volt-free contacts to automate pulsing.

STAGE 3

Number of Ways

Sets the number of outlets to be pulsed in one cleaning cycle. Simply push the "SET" flying lead on the PCB onto the appropriately marked pin in the row adjacent to it! e.g. "1" for 1 way, "2" for 2 ways, "8" for 8 ways, etc.

STAGE 4

Moment of Truth

This is the time you find out if you've got the power supply connected correctly. For your own peace of mind and safety - check it again.

Remote any connections to REMOTE SWITCH terminals (TB2). (I.e. open contact)

TURN THE POWER ON!!

After a short interval, No.1 output will pulse, then No.2, No.3 and so on. Red LED's adjacent to each output will flash in turn to indicate which one is pulsing.

STAGES CONTINUE ON PAGE 4

KX395 1-8 Way Sequence Controller

Set-up Procedure - Continued

STAGE 5

Set Interval and Duration

The "INTERVAL" potentiometer (VR1) controls the time delay between successive output pulses. This is adjustable over a range of approximately 4 to 60 seconds (turn clockwise to increase).

The "DURATION" potentiometer (VR2) controls the length or "time on" of each pulse. This is adjustable over a range of approximately 40 to 300 milliseconds (turn clockwise to increase).



STAGE 6

TURN THE POWER OFF!!

If Remote Control Switch is to be used. Connect the volt-free N/C contacts of a remote-control switch across these terminals REMOTE SWITCH terminals (TB2).

LEAVE IT SAFE

Technical Specifications

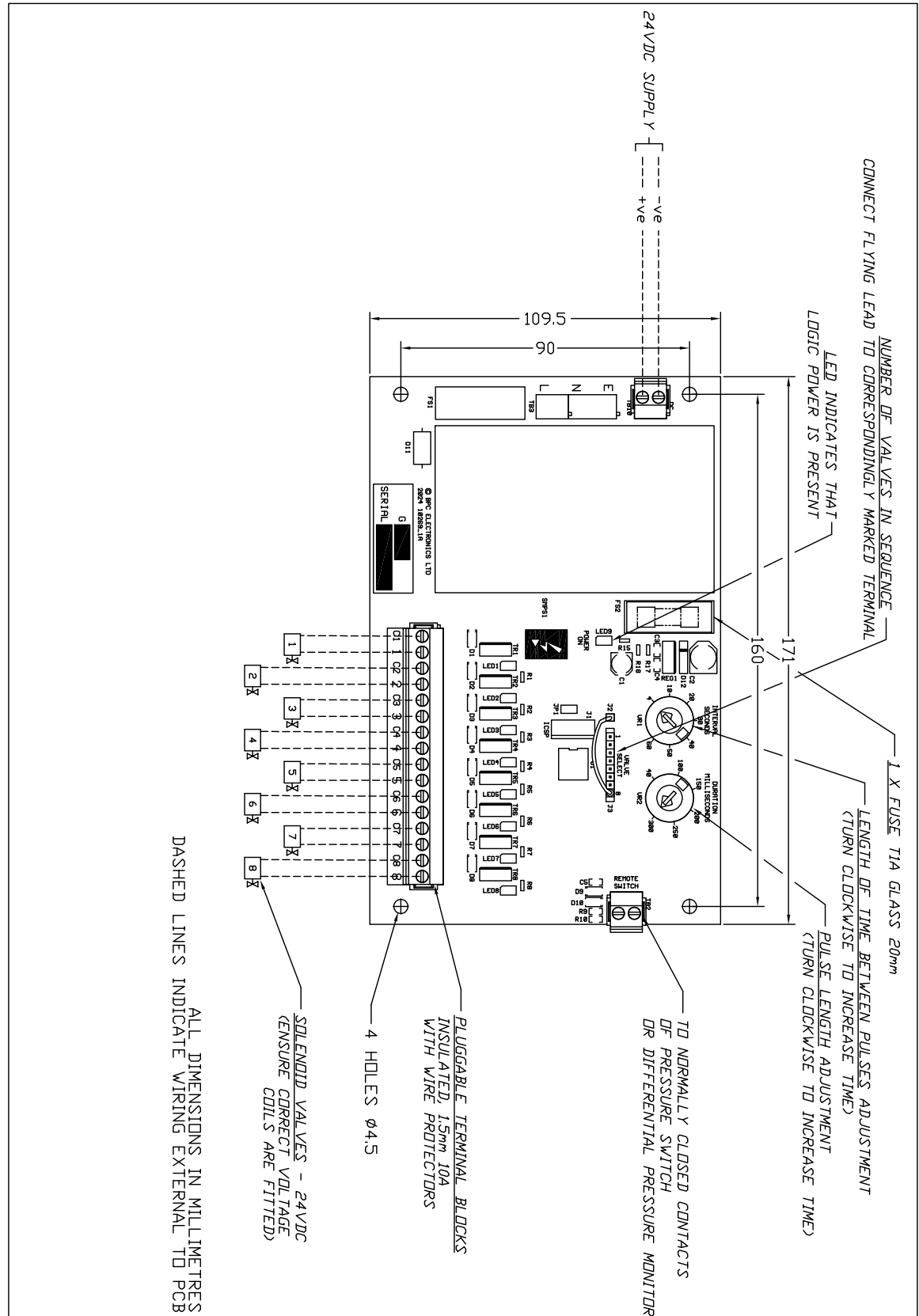
Unit	Part Number KX395
Power Supply / Power Consumption	Volts:- Refer to table on page 2. Amps:- Less than 500mA
Input Fuse	Depending on Model Number.
Output Fuse	Depending on Model Number.
Mains Failure	In the event of power interruption, the unit will operate to specification when the supply voltage is re-instated.
Startup Sequence	The unit is arranged so that pulsing will start as soon as an open circuit has been established across terminals PS1/PS2 for a few seconds, unless another option has been selected (see "Power Supply" stage on page 3).
Indication	Red LED indicates "Power On", others light up to show which output is pulsing during cycling. Some models also have "STOP" LED also (see "Cycles of Board" stage on page 4).
Ambient Temperature At Board Surface	-10 to +45°C
Storage Temperature	-20 to +70°C
Sequence Controller	The KX395 is also available enclosed within an IP65 rated plastic box. Just add "/E0" to the Part Number immediately after the model (-G...) number. Non-standard enclosures are also possible, or we can mount your KX395 integrally with other equipments (e.g. Pressure Switch) on request. Please consult Circuit Control's sales department for more information.
Reverse Jet Station	The KX395 can be used to drive any normally configured pilot valve, and we offer a variety of commercially available solenoid valves as standard in our Reverse Jet Stations - with or without rapid-fit or compression pipe fittings. Please consult Circuit Control's sales department for availability of specific combinations of board, box and valves to suit your requirements.
External Signals	The KX395 conforms to current regulations regarding proper operation within zones of electrical interference. Nevertheless, we recommend that connections to external equipments are kept as short as possible, made with screened cable earthed at one end and/or via an interposing relay.
Mains (ac) Supplies	To ensure the reliable operation and longevity of your KX395, any mains supply should not be a branch off a line carrying power to equipment containing rectifiers and/or thyristors (e.g. welders, variable speed drives, battery chargers, etc.). Keep supply cables away from other power carrying conductors. A free-standing mains filter is available if needed.

KX395-G4 Wiring Diagram



KX395 1-8 Way Sequence Controller

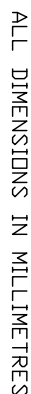
KX395-G10 Wiring Diagram



KX395-G15 Wiring Diagram



KX395 - As A Sequence Controller



KX395 1-8 Way Sequence Controller

KX395 - As A Reverse Jet Station

