



BLASTER SEQUENCE CONTROLLER

Air Cannon Systems solve many problems with stored bulk materials such as material hang-up and rate-holding. The sequence of discharge is critical to the applications ongoing success. The discharge sequence is best activated through the ESS Blaster Sequence Controller.

The ESS Blaster Sequence Controller is designed to initiate and control the operation of Air Cannons. The ESS Blaster Sequence Controller is suitable for the control of up to 8 air cannons.

FEATURES & BENEFITS

PRE-PROGRAMMED

The unit is factory programmed for a consecutive output sequence, with an easily adjustable time delay between each output. Custom sequences for special applications can be pre-programmed at the factory or downloaded at site. The standard unit is designed for input voltages of 110 / 240 VAC, and output voltage of 24 VDC. Other voltages are available on request.

CONTROL INPUTS

The unit has allowance for up to four control inputs to initiate the start of the automatic sequence. These inputs would be in the form of no-voltage contacts to indicate that a series of prerequisite conditions are present before the blasters can fire.

Examples would include:

- Bin gates are open
- Conveyor is running
- Feeder is operating
- Safety guards are in place



SUPPLY POWER

The unit is designed to operate from a supply voltage of either 110 or 240 VAC.

OUTPUTS

The ESS Blaster Sequence Controller has up to 8 outputs. These outputs are in the form of 24 VDC signals to energise the control solenoid on air cannons or other equipment. It is advised that the unit be situated within 25 metres of the air cannons to minimize the effect of voltage loss.

SITE CONNECTIONS

Site electrical connections are restricted to power supply, control signal inputs and output cabling from the unit to each Air Cannon.



HOW IT WORKS

Operation

The ESS Blaster Sequence Controller can be operated in two modes:

- Manual
- Automatic

Manual Operation

To operate manually, first ensure that power is available to the sequence control unit. Turn the isolator to the ON position. The indicator lamp will illuminate when power is available.

Using the key switch, select the MAN position.

Select the number of the Air Cannon to be fired using the numbered selector switch, and simply depress the 'manual fire' push button to fire the selected blaster.

Automatic Operation

Again, turn the isolator on the front panel to the ON position.

Using the key switch, select the AUTO position.

The unit is now set for automatic operation.

Up to four input signals may be utilized to initiate the automatic sequence. If any or all of the inputs have been used, the unit will not commence the automatic sequence until all of the input contacts have been made. Once the four inputs are detected, the sequence will commence automatically and will continue until one or more of the inputs ceases, or until the unit is turned off.

Dimensions:

300 x 300 x 150mm Weight: 8kg

BACK UP AND SUPPORT

ESS backs up its products 100%. We proudly manufacture all our products at two separate locations in Australia.

ESS maintains local stores and service crew's in most Australian mining centres. Service crews are available for installation, service, inspection and troubleshooting.

ESS design team provide a solution to your specific plant requirements.



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