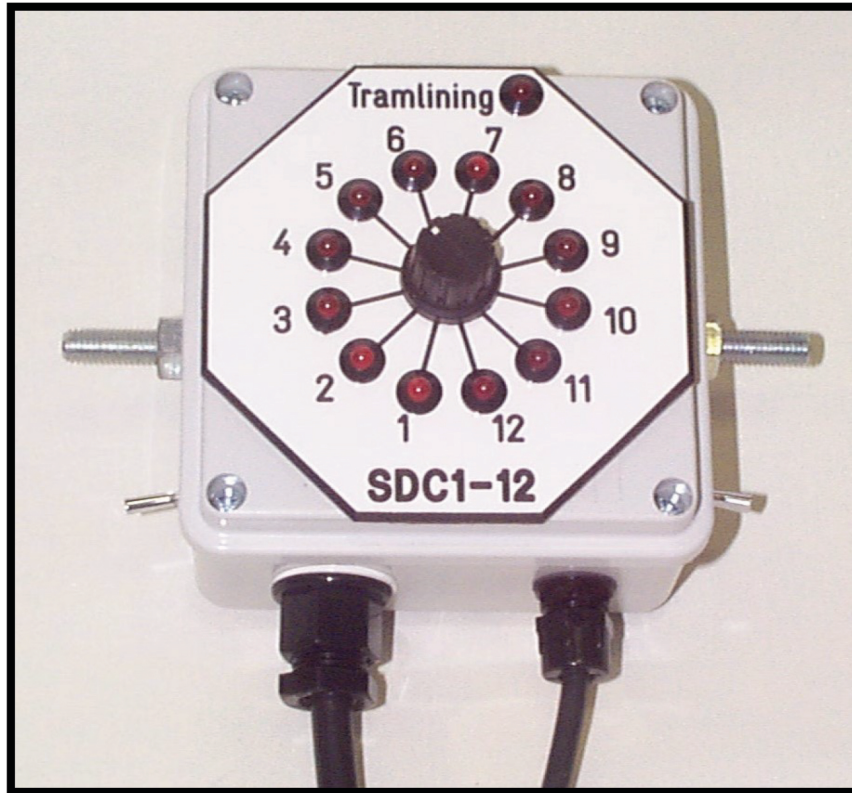




SEED DRILL INSTRUCTIONS



BIBUS (UK) Ltd Standard Seed Drill Control

Basic Functions of:

Remote incrementing of lanes.

Signal output for marker cut-offs.

Buzzer and visual illuminated tramline indicator.

Manual lane increment and isolation.

Optional Functions of:

Linear Actuator output for cut-off

Side and Pre-emergence marker outputs.

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Introduction

This is a standard designed control by Hollin Applications for the general use in agriculture.

The unit counts headland turns through a remote magnetic reed sensor (supplied). The target count is set by the front panel knob. The lane number is illuminated and increments once each time down the field. Once the lane count equals the chosen count the control outputs a 12 volt signal for the tramline marks.

This twelve volt signal is maximum 3 Amps and can be used to power clutches, solenoids or relays to turn of the lane marks.

Technical

Power supply	-	DC 10 to 16 Volts.
	-	5 Amp current rating
Fused	-	internal resetable.
Dimensions	-	6" * 4" * 2 1/2"
Panel	-	12 Red LED.
	-	1 Flashing Red LED.
	-	Rear mounted buzzer.
Mounting	-	Side mounted M8 bolts. (Optional Bracket)
Magnetic Reed Sensor	-	M12 nylon, 40mm length, 2 mounting nuts.
	-	Working distance to magnet 10 to 25mm
	-	High power magnets to be glued to mechanism.
Circuit board	-	Reverse polarity protected.
	-	Surge protected.

Installation

Mount the control box within the cab so that the display can be easily seen. Either using double sided tape or a bracket using the side 8mm bolts. Under no circumstances open the control box. As this invalidates the years warranty.

With the control switched off run the power cable to a suitable 12 volt dc power source. This must be of sufficient current capability to power the external clutch/solenoid. Brown or red core for positive and blue or black for negative. The control is reverse polarity protected.

Fit the Sensor and magnet to the Drill so that the sensor will come close to the magnet on each headland. This will remotely increment the unit.

Mount the seven pin connector to the tractor cab and fit the mating half to the drill. Wire the mating half to the magnetic sensor and the output to the mechanism.

Wiring

Pin.1	Yellow	Sensor Input Positive. Red Wire
Pin.2	Blue	Sensor Input Ground. Blue Wire
Pin.3	White	Output Signal Ground.
Pin.4	Green	Output Signal 12 volts on tramline lane.
Pin.5	Brown	Not Connected, Optional Actuator output
Pin 6	Red	Not Connected, Optional Actuator output
Pin 7	Black	Ground Output

Operation

Press the right hand switch down to switch the control on. Lane number one light will illuminate and the buzzer will sound for 10 seconds.

Turn the lane count knob to the required amount. Press the left hand switch down will manually increment the displayed lane. Manually increment the count until the light matches the required knob. At this point the buzzer will sound for 10 seconds, the tramline light will flash and the 12 volt output will energise. Check the clutch/solenoid is engaged.

The left hand switch in the central position disables the remote count. Now switch this up to enable the remote count. Move the drill mechanism and check the unit remote counts back to zero then increments.

Other Controls

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