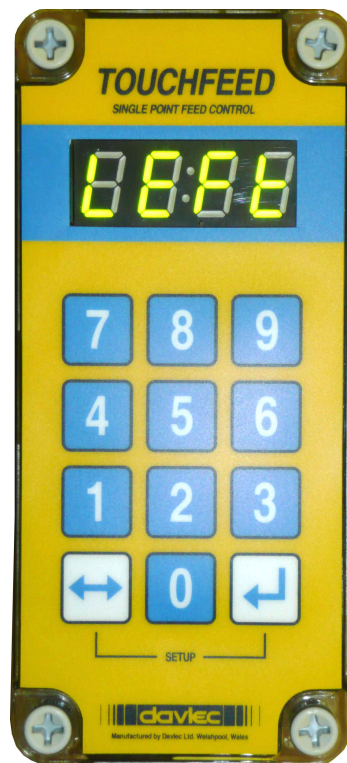


FEED CONTROLLERS

TOUCHFEED MK2



Installation & Operation Manual



OPERATING THE TOUCHFEED

Touchfeed Std. (Ration Feeding)

Press '1' for one unit of feed to be dispensed immediately.

Press '2' for two units of feed to be dispensed immediately.

" " "

Press '9' for nine units of feed to be dispensed immediately.

Automatic Feed Dispenser Changeover

Once a ration has been selected for a particular side the Touchfeed will automatically change side ready to accept a ration amount for that side. The automatic changeover can be disabled in the setup menu under the 'chan' parameter.

Manual Feed Dispenser Changeover

Pressing 'LEFT/RIGHT' arrow key will manually change feed dispenser sides. During feeding you can observe the remaining rations to be fed by pressing the 'LEFT/RIGHT' arrow key to the side feeding.

Cancelling Feeding

Select the side you wish to cancel using the 'LEFT/RIGHT' arrow key and then press the '0' key to cancel feeding.

Network Batch Feeding

On a system of networked Touchfeeds you can enable a side batch feed by selecting the side you wish to batch feed using the 'LEFT/RIGHT' arrow key and then selecting a batch ration number and holding that key in for approximately 3 seconds. The display will momentarily display 'Lb *' or 'rb *' for left batch or right batch followed by the ration number.

Touchfeed Plus (Memory Feeding)

With batch mode off you must now type the cow number and then press the 'Enter' key to commence feeding.

SETUP MENU

Press the 'LEFT/RIGHT' & 'ENTER' keys **simultaneously** to **enter** setup menu and also **exit** the setup menu.

Use the 'LEFT/RIGHT' arrow key to navigate the menu options and the 'ENTER' key to select and change options.

Setup Menu Options

'herd' - Store cow number and ration (Plus version only).

'ftyp' - Feeder type - pulse (puls), auger (augr) and PowerDos (pdos) feeder types.

'lcal' - Calibrate left feeder. Max 25.0 secs. e.g. 10 - 5 = 10.5 secs.

'rcal' - Calibrate right feeder. Max 25.0 secs. e.g. 10 - 5 = 10.5 secs.

'xply' - Output multiply (x1, x2 and x4).

'batc' - Batch feeding mode on or off (Plus version only).

'updt' - Update all Touchfeeds on network with cow records (Plus only).

'upgd' - Upgrade to Plus version (Memory Feeding) with purchased code.

'eras' - Erase all cow records (Plus version only).

'lpor' - Low power mode. If set to 'on' screen will switch off after 10 mins of no button activity. Pressing any button will switch screen on again.

'chan' - Automatic side changeover enable. Default setting is 'yes'.

'rty' - Rotary parlour ration feeding mode. Selected ration will stay on screen and feeding will begin when 'ENTER' key is pressed. Unit will only feed on left side output.

INSTALLATION

Connector

-	Negative 12 volts D.C. control supply.
+	Positive 12 volts D.C. control supply.
R	Right feeder output
L	Left feeder output
COM	Feeder supply

Note that the Touchfeed 'R' and 'L' outputs are **not connected** to the control supply and are only relay contacts with a common connection to the 'COM' feeder supply terminal.

Pulse Feeders

If operating pulse feeders make sure 'puls' is selected in the 'ftyp' feeder type option in the setup menu. Pulse time can be adjusted for left and right feeders by selecting 'lcal' and 'rcal' in the setup menu.

Auger Feeders

If operating auger feeders make sure 'augr' is selected in the 'ftyp' feeder type option in the setup menu. Auger run time can be adjusted for left and right feeders by selecting 'lcal' and 'rcal' in the setup menu.

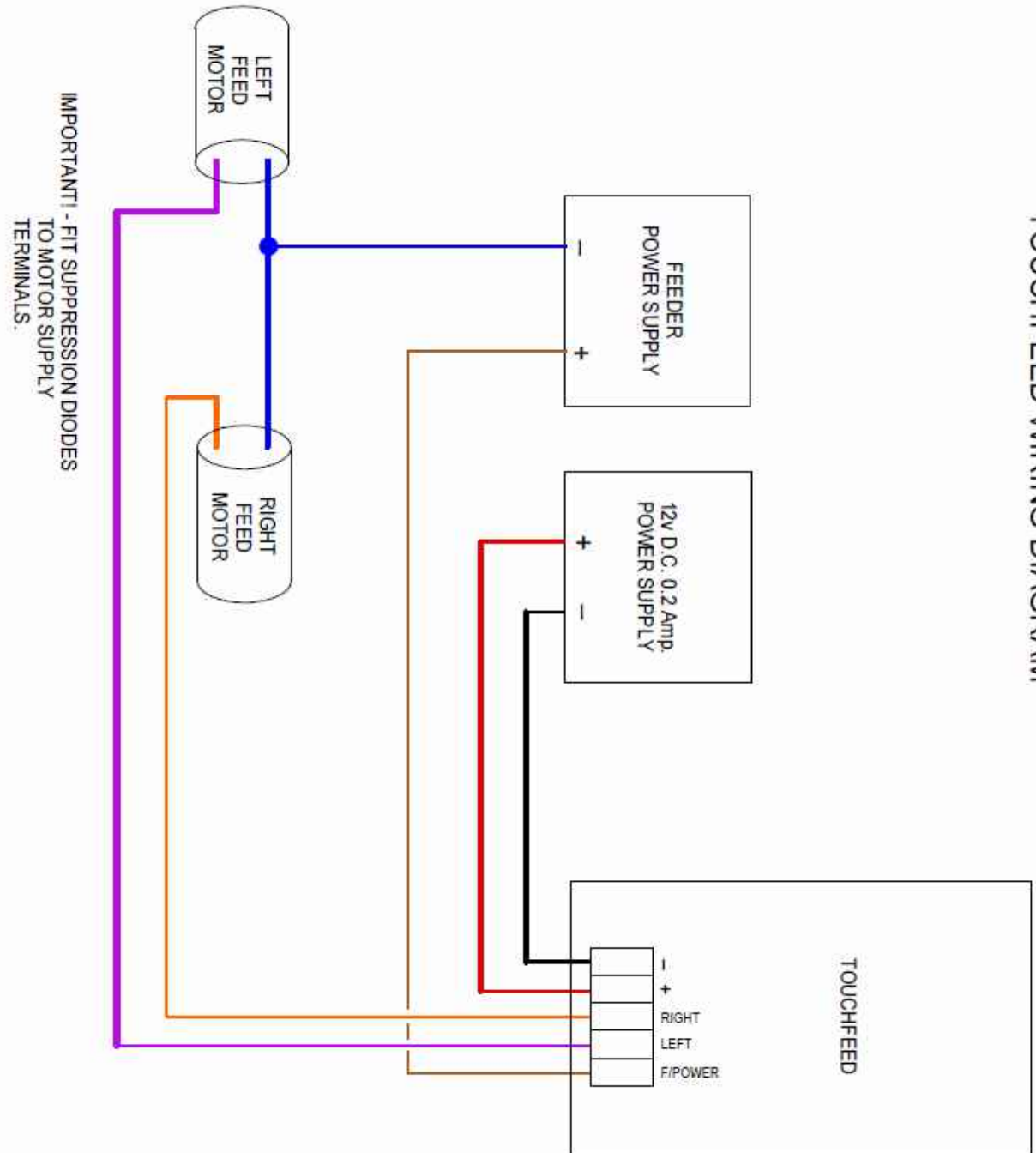
PowerDos Feeders

If operating pulse feeders make sure 'pdos' is selected in the 'ftyp' feeder type option in the setup menu. To calibrate the PowerDos feed dispensers select either 'lcal' or 'rcal' in the setup menu, you will then be required to enter the on time in seconds followed by the number of feed shots per unit e.g. 'P020' - gives 20 shots of feed per unit.

IMPORTANT! - To maintain consistent reliability of the Touchfeed it is highly recommended to fit suppression diodes across the supply terminals of D.C. feeder solenoids or motors. Note that white band of diode connects to positive side. With A.C. feeders diode suppression must not be used and we would therefore recommend using varistors.

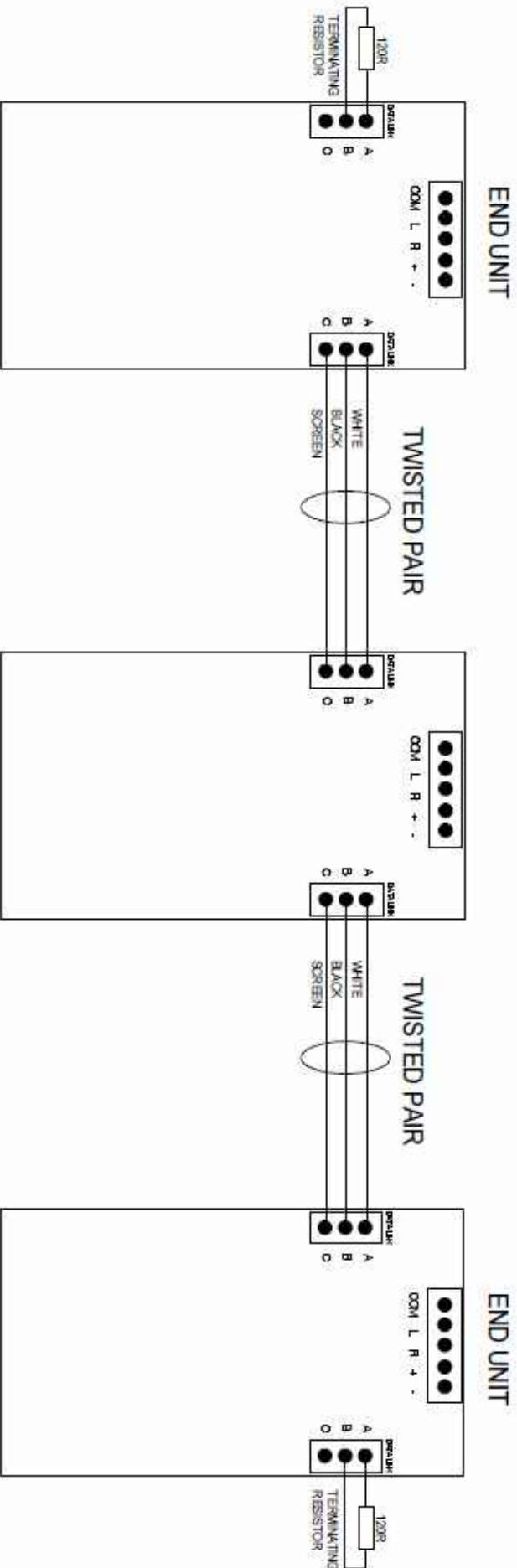
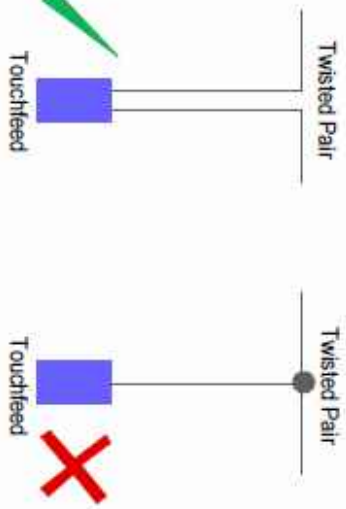
Avoid routing cabling in same conduit/trunking as A.C. power cables.

TOUCHFEED WIRING DIAGRAM



TOUCHFEED NETWORK WIRING

Twisted Pair 22 AWG Screened
Farnell Stock No. 1499576
RS Stock No. 409-167



SPECIFICATION

Product Name	Touchfeed Mk2					
Product Family	Touchfeed					
Enclosure						
IP Rating	68					
Material	ABS					
Dimensions	W	80mm	L	170mm	D	60mm
Electrical						
Supply Voltage	12 volts D.C.					
Maximum Peak Voltage	16 volts D.C.					
Frequency	N/A					
Control Current	0.2 Amps					
Maximum Output Load	5 Amps					
Protection	5 Amp 20mm Fuse					
Environmental Conditions						
Temperature	0 to 45°C					
Humidity	5 to 95%					
Location	Indoor use only					
Approvals						
EMC Conformity to: EN 61000-6-1:2007, EN 61000-6-3:2007, EN 55022:2006						