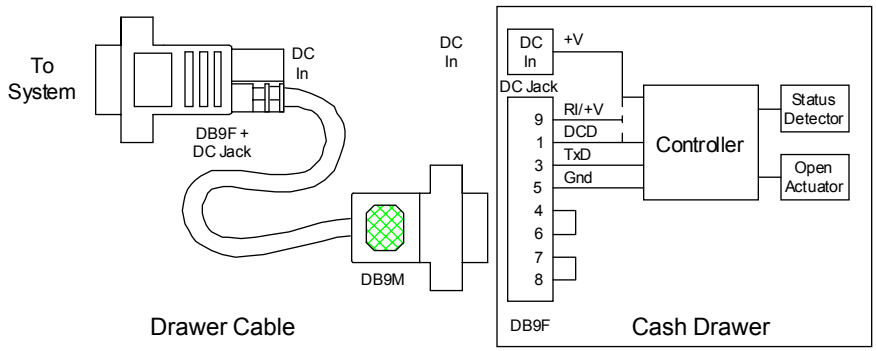
SPECIFICATIONS

Physical Specifications

Bill Tray	Heavy duty engineering plastic construction. Adjustable divider for four or five compartments. Spring loaded bill clip.	
Coin Tray	Separate coin tray removable from the bill tray. Adjustable divider for up to nine compartments.	
Slip Deposit Slot	Front access slot for checks, credit card receipt or any papers. 16mm space below coin tray provides room for the slips.	
Drawer Modes		
Solenoid	open by drive signal to the solenoid.	
Lock	mechanically locks the drawer.	
Manual	open by key.	
Dimensions		
C410B	410(W) x 425(L) x 90(H) mm	
C410BL	410(W) x 480(L) x 90(H) mm	
C420B	420(W) x 440(L) x 105(H) mm	
C420BL	420(W) x 490(L) x 105(H) mm	
Weight		
C410B	7.5Kg net	8.5Kg gross
C410BL	8Kg net	9Kg gross
C420B	9Kg net	10Kg gross
C420BL	10Kg net	11Kg gross
Colour		
Standard	Pearl white and black other OEM colours available	

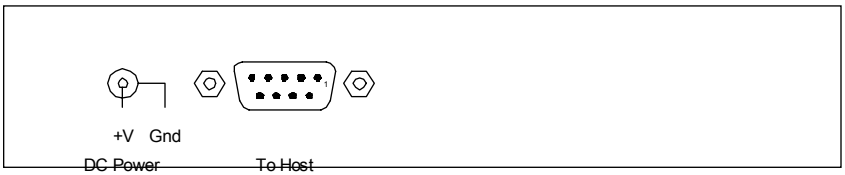
Electrical Specifications

Interface	DB9F connector. RS-232C at baud rates from 110 to 19200 Handshake, parity, data, stop bits: set at will.
Activation Data	Any ASCII letter, preferably **U** (55h)
Pulse Duration	300 ms typical
Status Detection	(Optional) Pin 1 - DCD or Pin 9 - RI (when AC adapter is used)
Blanking	Approximately 10 seconds of blanking after RS-232C active. During the blanking period the drawer cannot be opened, to avoid opening by spurious signal at system start.
Power Supply	12V 1.5A max



RS-232C Drawer Block Diagram

Rear Connectors

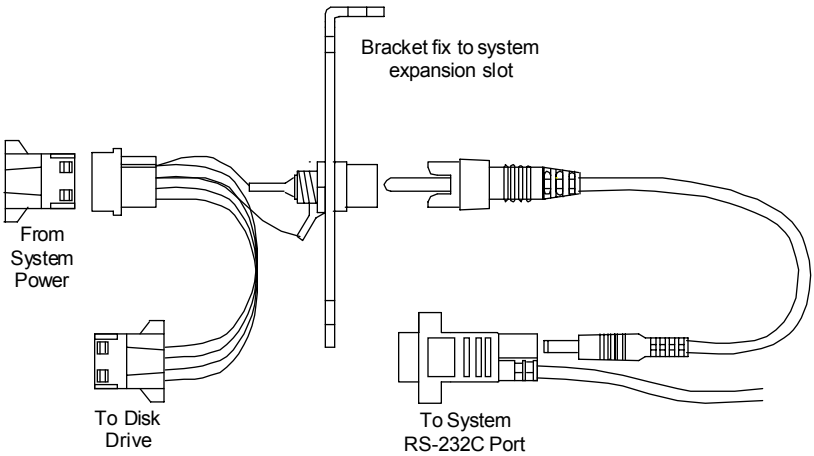


POWER OPTIONS

There are three options to power this cash drawer. The choice of AC adapter or bracket kit may be specified when ordering.

AC Adapter	12V 1A secondary
Bracket Kit	+12V from the system internal disk driver power connector. * The system power supply should have enough spare capacity on +12V for this option to function properly.
Pin 9	+12V from Pin 9 of RS-232C port. Some industrial computers allow Pin 9 of RS-232C port to be set to +12V. Please make sure there is over 1.5A available for reliable operation.

When Pin 9 or the DC In Jack on drawer cable is used for power, including the use of expansion bracket, Pin 9 cannot be used for status detection.



Power Tapping From System Using Expansion Bracket

PROGRAMMING NOTES

To activate the drawer, the COM port used should be initialised. Any single ASCII character can be used for operation. It is, however, preferable to use a character with more transitions in its binary code, such as **U** (01010101), especially at higher baud rate.

To open the drawer through COM1 under QBASIC:

```
OPEN "COM1:9600,N,8,1"
FOR RANDOM AS #1
PRINT #1, "U"
```

or in assembly:

```
MOV  DX,0000     ;Select COM1
MOV  AH,00       ;Function 00h, initialise COM port
MOV  AL,E3       ;COM port parameters, 9600,N,8,1
INT  14          ;Call BIOS int to set parameters
MOV  AH,01       ;Function 01h, write character to COM port
MOV  AL,55       ;Use 55h as the character to be sent
INT  14          ;Send character
RET
```

The status detection signal is available on two pins, 1 (DCD) and 9 (RI). Pin 9 is for the sake of compatibility with previous version of drawers. For new programs, Pin 1 is preferred for two reasons. One, pin 9 is also used for some power options. Two, MSCOMM.OCX, the Visual Basic library for COM port usage, provides only trailing edge status for RI, whereas, DCD status is fully supported.

A demo program in Visual Basic is available on request.