

GBA – IF008

Product Bulletin ST1/ST2 Connector Data

GENERAL DETAILS

Recommended Power Supply:

12 Vdc nom, reg @ 1.5 amp (min) continuous
Range: 10.8 to 13.2 Vdc

Current Ratings:

Quiescent current: 200mA (typical)
Validating: 800mA
Stacking (ST1 only): 700mA
Stalled : 1.40A

Vend Output:

Open Collector NPN, 50 mA sink @ 12Vdc
Pulse width 100msec (typical)

MDB (on ST1 Model Only):

Pin 1: Voltage range: 13 to 50 Vdc (inc ripple)
Current at 24 Vdc : 1.0A (typical)
Pin 2: TXD
Pin 3: Not Used
Pin 4: RXD
Pin 5: Supply Ground
Pin 6: Comms Common

20 pin Connector Details:

Pin	Wire Colour	Parallel	Mars Serial	Pulse	CCTalk / Serial (RS232)
1	Grey	/ABN Output	/ABN Output	/ABN Output	n.c.
2	Orange	n.c.	/Serial Select (Low)	Pulse (High) or n.c.	n.c.
3	White	/Vend 6 Output	/Busy	/Busy	n.c.
4	Yellow	/Escrow control	Clears /ABN and Stacker Full Signal	Clears /ABN and Stacker Full Signal	n.c.
5	Green	/ Vend 5 Output	TXD	n.c.	TXD (refer Note 3)
6	Brown	n.c.	Confirm Signal To Start Serial (/CTS)	n.c.	n.c.
7	Black	/ Vend 3 Output	n.c.	n.c.	n.c.
8	Red	/ Vend 4 Output	n.c.	n.c.	n.c.
9	Whi/Blk/Grn	n.c.	n.c.	n.c.	RXD (refer Note 3)
10	Blue	Inhibit Control Input (/Enable)	Inhibit Control Input (/Enable)	Inhibit Control Input (/Enable)	n.c.
11	Violet	/ Vend 1 Output	Serial Send Signal (/RTS)	n.c.	n.c.
12	Whi/Vio	(Parallel XT - Note Return, otherwise n.c.)	n.c.	/Pulse O/P	n.c.
13	Whi/Gry	/ Vend 2 Output	n.c.	n.c.	n.c.
14	Whi/Blk	Ground	Ground	Ground	Ground
15	Whi/Blk	Ground	Ground	Ground	Ground
16	Whi/Red	12 Vdc +	12 Vdc +	12 Vdc +	12 Vdc +
17	Whi/Red	12 Vdc +	12 Vdc +	12 Vdc +	12 Vdc +
18	Whi/Yel	PDT Terminal	PDT Terminal	PDT Terminal	PDT Terminal
19	Whi/Grn	PDT Terminal	PDT Terminal	PDT Terminal	PDT Terminal
20	Whi/Blu	PDT Terminal	PDT Terminal	PDT Terminal	PDT Terminal



Note 1: In **Parallel** mode, the inhibit control should be set **low** to enable operation of the validator. The alarm output will go low if an error state is detected. The Escrow feature is enabled by holding the Escrow Control Input low. In this state, when a note is inserted it will be held in the escrow position whilst a credit signal is sent to the host machine, along the appropriate vend channel. To accept this note, the host machine must bring the Escrow Control Input high within a preset time period (default 26 secs), otherwise the note will be rejected once the preset time period has expired. The GBA unit will send a second vend signal on the appropriate vend channel once a note has successfully accepted (i.e., no string detected). If the Inhibit Control Input has been brought high by the host controller, then the note will be returned and no second vend signal will be issued. If the validator is unable to stack the note because the cassette is full or the note is jammed, then an Alarm output will be issued.

Note 2: In **Pulse** or **Parallel** mode, the GBA ST1 and ST2 will not accept notes until the Enable signal is activated (inhibit control sent Low). The simplest way to do this is to link pins 10 and 14 on the 20 pin connector or connect pin 10 to ground.

Note 3: In **CCTalk** mode, the TXD and RXD lines may be connected together to form a single bi-directional data line.

Note 4: In **MDB** mode, for ST1 a 6-pin transition harness is available to connect from the 6-pin MDB output located at the rear of the housing, (marked "MDB") to a standard MDB connector. A protective cover must be removed to access this connector.

Note 5: When using a 12 Vdc Power Plug Pack, on ST1 the socket is located at the rear of the unit, on ST2 at the side. **The pin is tip positive**