The IB-105 (interface box), available in five options, is a junction that provides connectivity between the MS-710 scanner, the host or LAN, power input, and trigger devices.

The box has an internal relay contact (1 watt), a new master switch to allow input of master label data, a default pin button, a power switch, and a mode switch to toggle between RS-232 and RS-422 or 485 (depending on option).

Part Number: 99-420001

IB-105 SPECIFICATIONS

CONNECTORS

15-pin Scanner Connector Pinouts

Pin	Function
1	+5 VDC (in)
2	Transmit data (RS-232) (out)
3	Receive data (RS-232) (in)
4	Signal ground (RS-232)
5	NC
6	RTS (5V only)
7	Relay-1 Driver (out). Can sink 10 mA and source 2 mA.[a]
8	Default configuration (in)
9	Trigger (out) from 3 to 24 V
10	CTS (5V only)
11	NC
12	New master (in)
13	Chassis ground
14	Relay-2 Driver (out). Can sink 10 mA and source 2 mA.
15	NC

a. Relay-1 output also causes closure of an isolated relay between pin 15 and pin 17 of the IB-105 host connector.

25-pin Host Connector Pinouts

Pin	Function
1	Chassis ground
2	Host RS-232 TXD
3	Host RS-232 RXD
4	Host RS-232 RTS or under software control aux RS-232 TXD, or RS-485 transmitter enable (out)
5	Host RS-232 CTS or under software control aux RS-232 RXD (in)
6	Relay-2 output from from pin 14 of scanner connector.
7	Signal Ground
8	Relay-1 output from pin 7 of scanner connector.
9	VCC (+5V)
10	Trigger input; same as pin 1 of trigger connector.
11	Default configuration pin goes to pin 8 of the scanner connector and the default switch.
12	NC
13	Host RS-422/RS-485 (+in)
14	Host RS-422/RS-485 (–out)
15	Relay contact normally open (up to 1 watt) (common with pin 17)
16	Host RS-422/RS-485 (–in)
17	Relay contact normally open (up to 1 watt) (common with pin 15)
18	NC
19	Host RS-422/RS-485 (+out)
20	NC
21	NC
22	Ground
23	NC
24	+12 VDC (out)
25	New Master input to pin 12 of the scanner connector and New Master switch S3

5-pin DIN Power Connector Pinouts

Pin	Function
1	Signal ground (RS-232)
2	Chassis ground
3	+5 VDC (in)
4	NC
5	NC

6-pin DIN Trigger Connector Pinouts

Pin	Function
1	Trigger in pin 9 of scanner connector
2	Relay contact normally open
3	VCC (+5V)
4	VBB (+12V) out
5	Ground
6	Relay common

6-pin LAN (RJ-11) Connector Pinouts

Pin	Function
1	Chassis ground (RS-232)
2	RS-422/RS-485 (+receive)
3	RS-422/RS-485 (–receive)
4	RTS or RS-422/RS-485 (+transmit)
5	CTS or RS-422/RS-485 (–transmit)
6	Chassis ground (RS-232)

MECHANICAL
Length: 4.4 in. (11.2 cm)
Width: 3.1 in. (7.87 cm)
Height: 1.37 in. (3.48 cm)

ELECTRICAL
Supply Voltage Input:
Regulated +5 VDC @ 20 mA
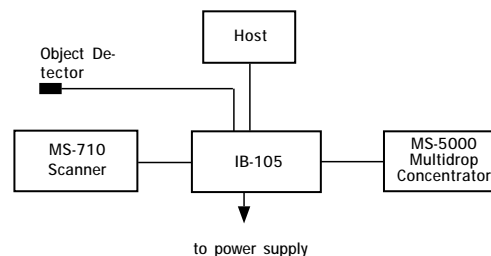
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