IB-3 and IC-3 Series
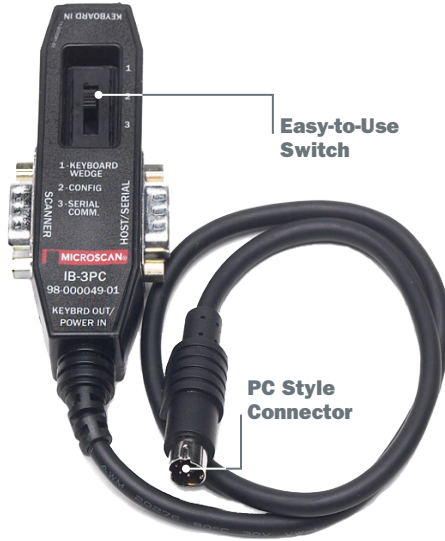
IB-3 and IC-3 series devices are designed for use with all microscan 5V, 15 pin barcode readers.

IB-3PC

The IB-3PC is a dual-purpose interface device that operates in two different operating modes (selectable by switch):

Keyboard Wedge:
- Data is sent to PC's keyboard port.
- Keyboard is connected to IB-3PC.
- Power is taken from PC's keyboard port.

Serial Interconnect:
- Communication is via DB-9, RS-232 serial port.
- Power is provided from a 5 VDC power supply with keyboard style connector or taken from a PC's keyboard port.

Easy-to-Use Switch

PC Style Connector

IC-3USB

The IC-3USB allows the barcode reader to be connected to a PC's USB 1.X connector.

- When the barcode reader is connected through the IC-3USB, its data is compatible with the USB 1.X protocol.
- The IC-3USB allows the barcode reader to draw 5 VDC from the USB connector, thus allowing the IC-3USB and a reader to function without an external power supply.

Standard USB Connection

IC-332

The IC-332 allows the barcode reader to be connected to the IB-131.

- The IC-332 provides 5-VDC for the barcode reader from the 10-28 VDC power which is connected to the IB-131.
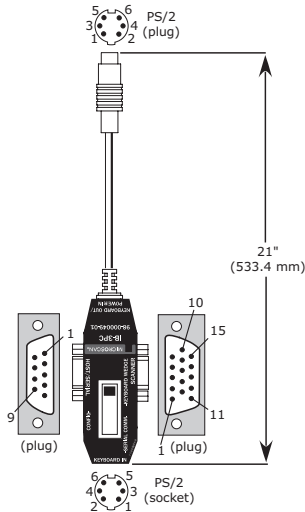- The IC-332 provides optoisolation for the trigger input and programmable outputs of the barcode reader.

Provides Optoisolation

MICROSCAN®

IB-3 and IC-3 Series Specifications and Options

IB-3PC

ELECTRICAL
Power: PS/2 port powered, 5 VDC, +/- 5%, 200mV p-p max. ripple, 260 mA & 50 mA @ 5 VDC(typ.) (scanner and wedge)

CE MARK
General immunity: EN 55024: 1998 ITE Immunity Standard
Radiated and conducted emissions of ITE equipment: EN 55022:98 ITE Disturbances

SCANNER CONNECTOR
15 Pin D-sub Plug

Pin	HOST RS232	In/Out
1	Power +5 VDC	Out
2	TxD	In
3	RxD	Out
4	Power/ Signal Ground	
5	NC	
6	NC	
7	NC	
8	Default	In

Pin	HOST RS232	In/Out
9	NC	
10	NC	
11	NC	
12	NC	
13	NC	
14	NC	
15	NC	

HOST CONNECTOR
9 Pin D-sub Plug

Pin	Signal
1	NC
2	RxD
3	TxD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

PS/2 KEYBOARD CONNECTOR
6 Pin PS/2
Socket and Plug

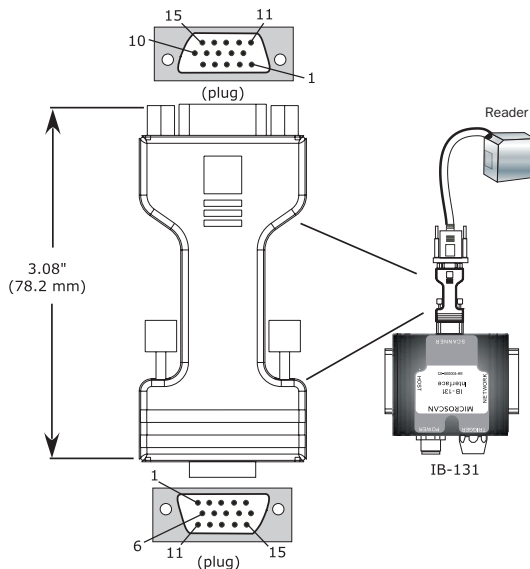| Pin	Signal
1	Data
2	NC
3	GND
4	+5
5	Clock
6	NC

IC-3USB
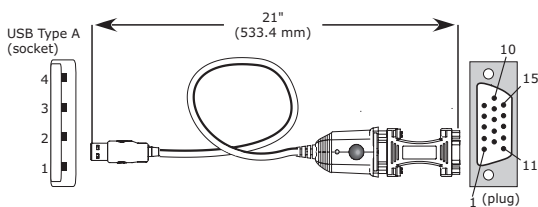
ELECTRICAL
Power: USB bus powered, 5 VDC, +/- 5%, 200 mV p-p max. ripple, 260 mA & 50 mA @ 5VDC (typ.)

USB TYPE A CONNECTOR
4 Pin D-sub Plug

Pin	Signal
1	+5
2	-Data
3	+Data
4	GND

IC-332

IC-332 TO SCANNER CONNECTOR
15 Pin D-sub Plug (with fixed nuts)

Pin No.	Host RS232	Host/Aux RS232	Host RS422/485	In/Out
1	Power +5 VDC			Out
2	TxD	TxD	TxD(–)	In
3	RxD	RxD	RxD(–)	Out
4	Power/Signal Ground			
5	NC			
6	RTS	Aux TxD	TxD(+)	In
7	Output 1 TTL			In
8	Default configuration			Out
9	Trigger			Out
10	CTS	Aux RxD	RxD (+)	Out
11	Output 3 TTL			In
12	New Master (NPN)			Out
13	Chassis ground			
14	Output 2 TTL			In
15	NC			

IC-332 TO IB-131 CONNECTOR
15 Pin D-sub Plug (with thumb screws)

Pin No.	Host RS232	Host/Aux RS232	Host RS422/485	In/Out
1	Power +10 to 28 VDC			In
2	Host TxD	Host TxD	TxD(–)	Out
3	Host RxD	Host RxD	RxD(–)	In
4	Power/Signal Ground			
5	Trigger (–)			In
6	RTS	Aux TxD	TxD(+)	Out
7	Ouput 1 (+)			Out
8	Default configuration			In
9	Trigger (+)			In
10	CTS	Aux RxD	RxD (+)	In
11	Output 3 (+)			In
12	New Master (+)			In
13	Chassis ground			
14	Output 2 (+)			Out
15	Outputs 1,2,3 (–)			Out

ELECTRICAL
Input Power Requirements: 10–28VDC, 200mV p–p max ripple, 54 mA & 9 mA @ 24VDC (typ.) (scanner and IC-332)

DISCRETE I/O
Trigger Input: Optoisolated, 5–28V rated (23mA at 24VDC)
New Master Input: Optoisolated, 5-28V rated (23mA at 24VDC), New Master (–) to signal-ground
Outputs (1,2,3): Optoisolated, 1-28V rated,(Ice<100mA max, must be limited by user)

CE MARK
General Immunity: EN 55024: 1998 ITE Immunity
Standard Radiated and Conducted Emissions: EN 55022: 1998 ITE Disturbances

SAFETY CERTIFICATIONS
FCC, UL/cUL, CE

ROHS/WEEE COMPLIANT

ISO CERTIFICATION
Issued by TüV USA Inc, Member of TüV NORD Group, Cert No. 06–1080