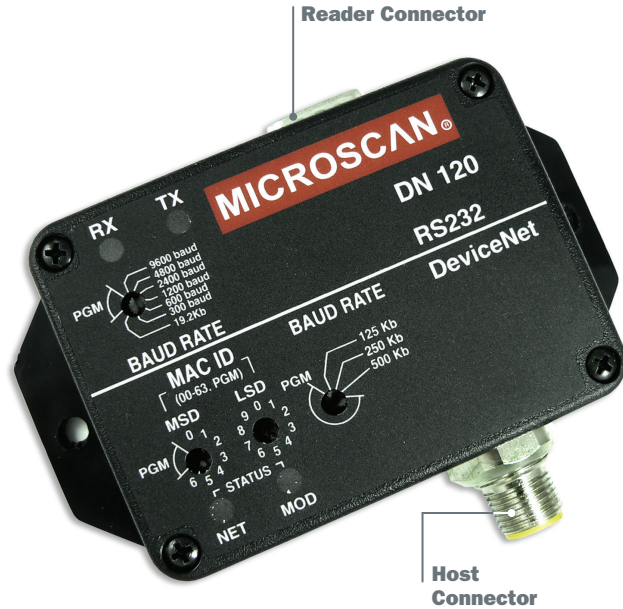# DN-120

Reader Connector

Host Connector

Interface Box

DeviceNet is a communication protocol managed by the Open DeviceNet Vendors Association (ODVA), with Controller Area Network (CAN) as the backbone technology. The protocol is used in the automation industry as a quick and economical way to network a variety of devices.

The DN-120 Interface Box easily connects any Omron Microscan RS-232 bar code reader to a DeviceNet network. Mac ID and serial channel are rotary switch selectable or software configurable. Other DeviceNet interface box features include a loss-of-ground protection circuit, fully isolated RS-232 serial channel, and selectable serial baud rate (300 to 19.2k).

For more information on this product, visit www.microscan.com.

MECHANICAL
Length: 3.25" (82.6 mm)
Width: 2.5" (63.5 mm)
Height: 1.08" (27.4 mm)

ELECTRICAL
Voltage: 11-28 VDC at 50 mA
Loss-of-ground Protection: Yes
Reverse Polarity: -30 VDC
Signal Levels: ISO 11898
Isolation: 500V
ESD Protection: ±10 kv
Overload Protection: ±30 V°
Short Circuit: Indefinite
Output Levels: ±7.9V (typical)

ENVIRONMENTAL
Enclosure: Plastic housing
Operating Temperature:
0° to 70° C (32° to 158°F)

COMMUNICATION
Interface: RS-232
Protocols: RS-232 to DeviceNet serial gateway
Data Bits: 8, 7 (determined by parity setting)
Parity: Even, odd, none (software configurable)
Stop Bits: 1 (fixed)
Baud Rate: 300, 1200, 2400, 4800, 9600, 19.2K (software/hardware selected)
Flow Control: None, RTS/CTS, X-on/X-off

CONNECTORS
Scanner Connector: DB-9 plug

Pin	Function
1	NC
2	Receive data RS-232 (in)
3	Transmit data RS-232 (out)
4	NC
5	Ground
6	NC
7	Request-to-send RS-232 (out)
8	Clear-to-send RS-232 (in)
9	NC

Host Connector: 5-pin MicroChange

Pin	Function
1	Drain
2	Bus +
3	Bus –
4	CAN H
5	CAN L

ISO CERTIFICATION
Certified ISO 9001:2008 Quality Management System

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MICROSCAN

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