



DeviceLink



NRTL/C

Description

Serving as a gateway between a 24V DC sensing device and DeviceNet™, Rockwell Automation/Allen-Bradley introduces DeviceLink™. Each DeviceLink is a single node on the DeviceNet network. It communicates on the network per the DeviceNet protocol at 125kb, 250kb, and 500kb. DeviceLink is compatible with any 2-wire or 3-wire 24V sensor with open collector sourcing output, any device with relay contacts, and any mechanical sensing device.

Features

- Offered in a variety of cable lengths
- Contains debounce filtering configurable by user
- Offered in mini quick-disconnect, micro quick-disconnect, and Conductor
- Stainless steel connectors
- CSA, NRTL/C approved
- Network Status Indicator

Specifications

Electrical Requirements	
Supply Voltage	11V min to 25V max
Sensor Type Supported	24V DC with sourcing (PNP) output, 2-wire, 3-wire, or 4-wire
Sensor Input "O" Level	0V-1V, sourcing 0mA-1.65mA (with respect to ground)
Sensor Input "1" Level	3V to max supply voltage (with respect to ground)
Environmental Requirements	
Operational Temperature	-25°C to +70°C (-13°F to +158°F)
Storage Temperature	-40°C to +85°C (-40° to +185°F)
Vibration	5g, 150Hz, 3 mutually perpendicular planes
Sealing	1200PSI (8270 kPa) NEMA 6P, 4X, 12, and 13
Network	
Maximum Power Consumption	40mA + End Device
Messaging Type	Slave Mode
Exchange Method	Strobe
Strobe Format	Output -byte 1 bit 0

Factory Defaults

DeviceNet Address 63
DeviceNet Baud Rate . . . 125kb
On/Off Delay 0ms

Note: All parameters are configurable via the network.

Status Indicators

LED	Status
None	Indicates sensor not powered
Green On	Sensor active and allocated by a master
Flashing Green	Sensor active but not allocated by a master
Flashing Red	Incorrect baud rate or communication lost
Red On	Misappropriating (possible duplicate address or communication error)

Selection Guide

DeviceNet Connection	Field Device Connection	Catalog Number—Length m (ft)		
		1 (3.3)	2 (6.5)	3 (9.8)
Straight Mini	Straight Mini	1485D-A1M5-N4	1485D-A2M5-N4	1485D-A3M5-N4
	Straight Micro	1485D-A1M5-R4	1485D-A2M5-R4	1485D-A3M5-R4
	Cable	1485D-A1M5-C	1485D-A2M5-C	1485D-A3M5-C
Right Angle Micro	Straight Mini	1485D-A1F5-N4	1485D-A2F5-N4	—
	Straight Micro	1485D-A1F5-R4	1485D-A2F5-R4	
	Cable	1485D-A1F5-C	1485D-A2F5-C	
Cable	Straight Mini	—	—	1485D-A3C3-N4
	Straight Micro			1485D-A3C3-R4
	Cable			1485D-A3C3-C

❶ For stainless steel connectors add an "S" to the catalog number: example 1485DS-A1M5-N4

Dimensions—mm (inches)

