Product Details and Certifications

Cross Reference RA Part Number: 1788-EN2DN A

Product: 1788-EN2DN

Description: EtherNet/IP to DeviceNet Linking Device

Representative Photo Only (actual product may vary based on configuration sections)

ACCESSORY SELECTION

Bulletin Number	1788 Linking Device
Power Requirements Inputs	12…30V DC(24V DC nom) 300 mA at 24V DC, Class 2
Power Requirements DeviceNet	12…30V DC(24V DC nom) 100 mA at 24V DC, Class 2
Isolation Voltage	50V (continuous), Basic insulation type
Wiring Category	2 - On Power Ports 2 - On Communications Ports
Enclosure type Rating	None (open-style)

CERTIFICATIONS AND APPROVALS

UL

CE

C-Tick

For UL Certifications Directory: http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

EtherNet/IP Pinouts

Pin	Signal
6	RD-
7	Termination
8	Termination

Specifications

Technical Specifications - 1788-EN2DN

Attribute	1788-EN2DN
Enclosure type rating	None (open style)
Supply power and current rating	DeviceNet network: Operating voltage: 12…30V DC (24 V DC nom) 100 mA at 24V DC, Class 2 Input power Operating Voltage: 12…30V DC (24V DC nom) 300 mA at 24V DC, Class 2
Isolation voltage	50V (continuous), basic insulation type
Torque	0.5… 0.8 N•m (5…7 lb•in)

Technical Specifications - 1788-EN2DN

Attribute	1788-EN2DN
Wire size	DeviceNet connections: See appropriate system-level installation manual Ethernet network connections: RJ45 connector according to IEC 60603-7, 2 or 4 pair Category 5e minimum cable according to TIA 568-B.1 or Category 5 cable according to ISO/IEC 24702 DC Power connections: 0.2… 3.3 mm^2 (24…12 AWG) solid or stranded copper wire rated at 75 °C (167 °F), or greater, 1.2 mm (3/64 in.) insulation max
Wiring category(1)	2 - on power ports 2 - on communication ports
North American temp code	T4
IEC temp code	T4

(1) Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1.

Environmental Specifications - 1788-EN2DN

Attribute	1788-EN2DN
Temperature, operating • IEC 60068-2-1 (Test Ad, Operating Cold), • IEC 60068-2-2 (Test Bd, Operating Dry Heat), • IEC 60068-2-14 (Test Nb, Operating Thermal Shock)	0…60 °C (32…140 °F)
Temperature, surrounding air, max	60 °C (140 °F)
Temperature, nonoperating • IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), • IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), • IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock)	-40…85 °C (-40…185 °F)

Environmental Specifications - 1788-EN2DN

Attribute	1788-EN2DN
Relative humidity • IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5…95% noncondensing
Vibration • IEC 60068-2-6 (Test Fc, Operating)	5 g @ 10…500 Hz
Shock, operating • IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Shock, nonoperating • IEC 60068-2-27 (Test Ea, Unpackaged Shock)	50 g
ESD immunity • IEC 61000-4-2	6 kV contact discharges 8 kV air discharges
Radiated RF immunity • IEC 61000-4-3	10V/m with 1 kHz sine-wave 80% AM from 80…2000 MHz 10V/m with 200 Hz 50% Pulse 100% AM at 900 MHz 10V/m with 200 Hz 50% Pulse 100% AM at 1890 MHz 1V/m with 1 kHz sine-wave 80% AM from 2000…2700 MHz
EFT/B immunity • IEC 61000-4-4	±2 kV at 5 kHz on power ports ±2 kV at 5 kHz on communication ports
Surge transient immunity • IEC 61000-4-5	±1 kV line-line(DM) and ±2 kV line-earth(CM) on power ports ±2 kV line-earth(CM) on communication ports
Conducted RF immunity • IEC 61000-4-6	10V rms with 1 kHz sine-wave 80% AM from 150 kHz…80 MHz