

Product Details and Certifications

Cross Reference RA Part Number: 1788-CN2DN A



Product: 1788-CN2DN

Description: ControlNet 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	24V DC, 500 mA
Power Requirements DeviceNet	24V DC, 90 mA, Class 2
Isolation Voltage	30V (continuous), Basic insulation type, between all ports, type tested at 720V DC for 60s
ControlNet Connection	RG6
Wiring Category	3 - On Power Ports 2 - On Communications Ports
Enclosure type Rating	None (open-style)

CERTIFICATIONS AND APPROVALS

UL

CE

CSA

For UL Certifications Directory:

<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

1788-CN2DN ControlNet to DeviceNet Linking Device

The 1788-CN2DN linking device connects a ControlNet network to a DeviceNet network.



Technical Specifications - 1788-CN2DN

Attribute	1788-CN2DN
Power requirements	Input: 24V DC, 500 mA DeviceNet: 24V DC, 90 mA, Class 2
Isolation voltage	30V (continuous), basic insulation type, between all ports. Type tested at 720V DC for 60 s.
ControlNet connection	RG6
DeviceNet connection ⁽¹⁾	0.52 mm ² (20 AWG), 1485C-P1-Cxxx.
Power connection	Power: 0.25 . . . 2.5 mm ² (22 . . . 14 AWG) solid or stranded copper wire rated at 75 °C (167 °F), or greater, 1.2 mm (3/64 in.) insulation max.
Wiring category ⁽²⁾	3 - on power ports 2 - on communication ports
Dimensions (H x W x D), approx.	120 x 200 x 87 mm (4 11/16 x 7 7/8 x 3 7/16 in.)
Enclosure type rating	None (open-style)
North American temperature code	T4A
IEC temperature code	T4

(1) Refer to DeviceNet Media Design Installation Guide, publication [DNET-UM072](#).

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


Environmental Specifications - 1788-CN2DN

Attribute	1788-CN2DN
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)
Relative humidity IEC 60068-2-30 (Test Db, Unpackaged Damp Heat)	5...95% noncondensing
Shock, operating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	30 g
Shock, nonoperating IEC 60068-2-27 (Test Ea, Unpackaged Shock)	50 g
Vibration IEC 60068-2-6 (Test Fc, Operating)	2 g @ 10...500 Hz
Emissions CISPR 11 (IEC 61000-6-4)	Class A
ESD Immunity IEC 61000-4-2	6 kV contact discharge 8 kV air discharge
Conducted RF immunity IEC 61000-4-6	10 V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz
Radiated RF immunity IEC 61000-4-3	10 V/m with 1 kHz sine-wave 80% AM from 30...2000 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 900 MHz 10 V/m with 200 Hz 50% Pulse 100% AM @ 1890 MHz 3 V/m with 1 kHz sine-wave 80% AM from 2000...2700 MHz
EFT/B immunity IEC 61000-4-4	±4 kV at 5 kHz on power ports ±3 kV at 5 kHz on communication ports
Surge Transient immunity IEC 61000-4-5	±2 kV line-earth (CM) on communication ports



Certifications - 1788-CN2DN

Certification (when product is marked) ⁽¹⁾	1788-CN2DN
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65584. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810.
CSA	CSA Certified Process Control Equipment. See CSA File LR54689C. CSA Certified Process Control Equipment for Class I, Division 2 Group A,B,C,D Hazardous Locations. See CSA File LR69960C.
CE	European Union 2004/108/EC EMC Directive, compliant with: <ul style="list-style-type: none"> • EN 61326-1: Meas./Control/Lab., Industrial Requirements • EN 61000-6-2: Industrial Immunity • EN 61000-6-4: Industrial Emissions • EN 61131-2: Programmable Controllers (Clause 8, Zone A and B)
C-Tick	Australian Radiocommunications Act, compliant with: <ul style="list-style-type: none"> • AS/NZS CISPR 11; Industrial Emissions
Ex	European Union 94/9/EC ATEX Directive, compliant with: <ul style="list-style-type: none"> • EN 60079-15; Potentially Explosive Atmospheres, Protection "n" • EN 60079-0; General Requirements I 3 G Ex nA IIC T4X Gc
DeviceNet	ODVA conformance tested to DeviceNet specifications
CI	ControlNet Int'l conformance tested to ControlNet specifications.

(1) See the Product Certification link at <http://www.ab.com> for declarations of conformity, certificates, and other certification details.