

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)

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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 mm² (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

Certifications - 1788-EN2DN

Certification (when product is marked)⁽¹⁾	1788-EN2DN
c-UL-us	UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810.
CE	European Union 2004/108/EC EMC Directive, compliant with: • 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 & B)
C-Tick	Australian Radiocommunications Act, compliant with: • AS/NZS CISPR 11; Industrial Emissions
Ex	European Union 94/9/EC ATEX Directive, compliant with: • EN 60079-15; Potentially Explosive Atmospheres, Protection “n” • EN 60079-0; General Requirements • II 3 G Ex nA nL IIC T4 X
ODVA	ODVA conformance tested to DeviceNet specifications
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: • Article 58-2 of Radio Waves Act, Clause 3

(1) See the Product Certification link at www.ab.com for Declarations of Conformity, Certificates, and other certification details.