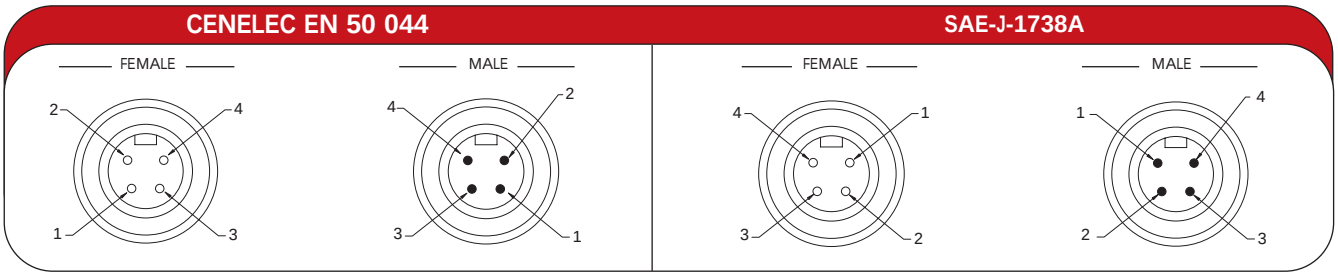
Pin Numbering Conventions:

There are two conventions that determine which PIN numbers are located with respect to the keyway. These are **CENELEC EN 50 044** and **SAE-J-1738A**.

In almost every case, except for 4-pole Mini-Change® connections, these two conventions agree with one another. This affects DeviceNet™ installations where the 4-pole Mini-Change connector is used to bring auxiliary power to I/O modules and other devices.

The two pinout conventions are shown below. While Brad Harrison® pins out its DeviceNet 4-pole Mini-Change auxiliary power connections per the SAE convention as standard, conventional CENELEC versions are available.



Terms and Definitions:

10BASE-T (as a transmission medium)
A network running at 10 Mbps, using baseband technology and twisted pair cabling.

10BASE-T (as a wiring sequence)
A variation of 568A wiring, omitting the two wire pairs used for voice transmission.

100BASE-F
A network running at 100 Mbps, using baseband technology and fiber-optic cabling.

100BASE-T
A network running at 100 Mbps, using baseband technology and twisted pair cabling.

110 Punchdown Block
A standard Insulation Displacement Connection (IDC) used to field terminate cable to a receptacle.

802.3
The upper level IEEE working group responsible for the standards associated with Ethernet and other CSMA/CD networks.

Active or Intelligent Device
Devices that can be connected as nodes, with unique MAC IDs, to a DeviceNet™ system. These devices can provide diagnostics including troubleshooting.

Application Layer
The software portion of a bus which determines the system's attributes. For DeviceNet™, defines how identifiers are assigned (controlling priorities) and how a CAN data field is used to specify services, move data and determine that data's meaning.

Arbitration (mechanism)
Resolves potential network conflicts between nodes without loss of data or bandwidth. For DeviceNet™, a bit wise, non-destructive arbitration method is used.

ASI
Actuator Sensor Interface.

ASIC
Application-Specific Integrated Circuit – A semiconductor designed to perform a particular function by defining the interconnection of a set of basic building blocks drawn from a library provided by the circuit manufacturer.

Assembly Object
Differing application objects grouped into a single attribute which can be moved with a single message.

Attenuation
Amplitude dissipation of an electrical signal as it travels over distance, expressed in decibels.

AUTOBAUD
Feature on DeviceNet™ active devices that sets their data rate to the correct value when connected to an existing network.

Auto-Negotiate (Auto-Sense)
Part of the 802.3u specification which details how devices at either end of a link advertise to the other their connection mode (speed and duplex that can be supported). Should both devices be equipped with Auto-Negotiate (vendor optional), they will select the highest common protocol for communication. Also referred to as Auto-Sense.

AWG
American Wire Gauge – A standard used to define the physical size of a conductor determined by its circular mil area (1 mil = .001).

AWM
Appliance Wiring Material.

Baseband
A communication network that transmits data over a single carrier frequency.

Baud
A data transmission measurement for modems.

Baud Rate
Measurement of data transfer speed (1 baud = 1bit per second).

Bit
A single character of a language having just two characters, as either of the binary digits 0 or 1.

Bit Bus
A bus architecture that communicates the minimum amount of information possible through a bus. Does not accommodate diagnostics.

Bus
A parallel circuit that connects the major components of an architecture, allowing the transfer of electric impulses from one connected component to any other.

Byte
A sequence of 8 bits (enough to represent one character of alphanumeric data) processed as a single unit of information.

CAN
Controller Area Network – An ASIC used by DeviceNet™ and Smart Distributed Systems.

Capacitance
Storage of electrically separated charges between two plates (or wires). Unbalance, in the case of a data wire pair, results in the transfer of unwanted signals.

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Category 5/5E
A TIA/EIA rating system that describes the physical properties of the communication channel in relation to its performance at specific communication speeds.

Change-of-State
Type of messaging where the device produces data only when there is a change.

CL2
Designation of cable which meets the vertical tray flame test for class 2 systems.

Collision Domain
The group of nodes that are attached to the network in such a way that only one of those nodes can be transmitting at any one time. Nodes connected together using repeater hubs usually belong to a single collision domain, while those attached by a switching hub are generally isolated from the collision domain.

Composite Cable
A cable consisting of two or more types or sizes of wire.

CRC
Cyclic Redundancy Code – An error correction code that is recorded in each sector of a magnetic disk and used to catch errors in data.

CSA
Canadian Standards Association.

CSMA/CD
Carrier Sense Multiple Access/Collision Detect – The media access method used in Ethernet architectures. All network nodes are able to detect the presence of a signal on the channel (Carrier Sense). Once the network is clear, all nodes with something to transmit vie equally for access to the channel (Multiple Access). If a node detects another signal during its transmission, the signals collide, both nodes back-off and retry at a random amount of time later (Collision Detect).

Cyclic Option
The device set-up to report its data on a regular basis, consistent with the rate of change it can detect.

Daisy Chain
A bus wiring scheme in which, for example, device A is wired to device B, device B is wired to device C, etc. All devices may receive identical signals or, in contrast to a simple bus, each device in the chain may modify one or more signals before passing them down the line.

Device Object
A DeviceNet™ product will have a single instance of a DeviceNet™ object. The instance will have the following attributes: node, address (MAC ID), baud rate, bus-off action, bus-off center, allocation choice and MAC ID.

Device Profile
Fully defines the device as viewed from the network. DeviceNet™ specifications contain such profiles.

Diagnostics
Relaying of information regarding the various states or conditions of certain controls back to the PLC or PC.

Drain Wire
In a cable, an uninsulated wire laid over components and used as a ground connection.

Drop Cable
Cable that exits a trunk cable and runs to a control.

EDS (Electronic Data Sheet)
An electronic version of a device's configurable parameters and public interfaces to the correct parameters.

Ethernet/IP
A networking protocol which uses Ethernet for the physical and media access layer, and incorporates the CIP (Controller Information Protocol) from DeviceNet™ as the application layer.
Explicit Messages
Provide a multi-purpose pt-pt commission path between two devices. These messages are typically used for low-priority identifiers and contain the specific meaning of the message right in the data field. This usually means the service to be performed, as well as the specific object attribute address, is imbedded herein.

Fast Ethernet
An Ethernet network operating at 100 Mbps.

Fiber-Optic Cable
A transmission medium using a central glass fiber which transmits digital signals, generated from a laser or LED, expressed as light pulses.

FT1
A vertical flammability rating for wires and cable developed by CSA.

FT4
A vertical flammability rating for wires and cable developed by CSA that is more sever than FT1.

Full-Duplex Media
Supports both transmission and reception of a signal at the same time. These nodes effectively double their available bandwidth.

Horizontal Cross-Connect
A cabling system that extends from communications equipment to the work area outlet.

Hub
The focal point in a messaging handling service, a number of local computers might exchange messages solely with a hub (or focal point) computer. Would be responsible for exchanging messages with other hubs and non-local computers.

Hz
Hertz – Cycles per second.

I/O
Input/Output

I/O Messages
Apply to time-critical, control-oriented data. They provide a dedicated, special purpose commission path between producers and consumers of data on a network.

Identity Object
Typically, a single instance for each DeviceNet™ product. Attributes will be vendor ID, device type, product code, revision, status, S/N, product name and statistics.

IEC
International Electro-technical Commission.

Impedance
The apparent resistance in an electrical circuit to the flow of an alternating current, similar to the actual electrical resistance to a direct current, keeping the ratio of electromotive force to the current.

Interoperability
The ability of two or more differing systems or controls to communicate.

IP
Internet Protocol – The Network Layer, 24-bit addressing scheme used by most Ethernet networks

ISO
International Standards Organization.

MAC ID
Assigned as the address of nodes on a DeviceNet™ network. DeviceNet™ uses a device address inside the CAN identifier field and it represents a mechanism for detecting duplicated addressed devices.

Master/Slave
Stand-alone authorization to transmit belongs exclusively to one station (master), while other stations (slaves) transmit only upon request.

Media Access Control
Layer two of the OSI model defines the mechanisms used to determine access to the communication channel.

Message
A packet of information that is delivered to and from a control comprised of bits and/or bytes.

Message Router Object
An element of a component that passes explicit messages to other objects.

NEMA
National Electrical Manufacturers Association.

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Network
A system of computers and other devices interconnected by telephone wires or other means in order to share information.

NEXT
Near End Cross Talk – The level of unwanted signal transferred from the transmitting wires to the receiving wires measured on the transmitting end. The specification is in decibels and refers to the maximum amount of signal that will be ignored, meaning the higher the decibel rating the better the specification. The same specification measured on the receiving end is referred to as Far End Cross Talk (FEXT).

Nodes
Used to describe a single control or address and its supporting components.

Object
DeviceNet™ node that is modeled via software as a collection of objects. Objects provide an abstract replication of a particular component within a product.

Object Model
Provides a template for organizing and implementing attributes, services and behaviors of components of DeviceNet™ products.

Open Architecture/Network
A protocol that is available to and open to the public without purchase of a licensing agreement.

Open Style Connector
Approved connector style for DeviceNet™ where low-cost in panel connection to devices is required . It allows for the simple daisy-chaining of multiple devices.

Open Systems Interconnect (OSI) Model
The International Standards Organization definition of the 7 communication layers that must be supported in a device for it to share network services with similar and dissimilar devices.

Parameter Object
Used in devices with configurable parameters. One instance would be presented for each configurable parameter. The parameter object provides a standard way for a configuration tool to access all of the parameters; including values, ranges, text strings and limits.

PE (Cellular)
Expanded or foam polyethylene.

Peer-to-Peer
One control communicated directly with another control.

Physical Layer
Layer consisting of sensors, actuators, cables and other control devices.

PLC
Programmable Logic Controller.

Profibus DP
A polling Profibus network, whereby the assigned master requests the status of each node.

Profibus FMS
A Profibus network which supports both peer-to-peer and master-to-master messaging format.

Profibus PA
A Profibus network that provides both data and power over the same two wires in accordance with IEC 1158-2. Typically used in intrinsically safe applications.

Protocol
Language and logic utilized in software to address a control for communications between two devices or processes.

PVC
Polyvinyl Chloride. A general purpose thermoplastic widely used in wire/cable jacketing.

Real Time
The immediate performance of an activity/command.

Response Time
Time necessary to receive a response or trigger an activity from PLC to the control.

RJ-11
A 4- or 6-pin modular connector used with twisted pair cable primarily in telephony applications, but also applicable in some datacom applications.

RJ-45
An 8-pin modular connector used with twisted pair cable in datacom or datacom/telephony applications

Round Media
Two twisted pair wires (24VDC power and signal) plus drain in one cable per DeviceNet™ standards.

SAB
Sensor/Actuator Bus – Integration of several sensors and actuators on one cable.

Sealed style of connector
Molded quick-connect/disconnect style of connectors approved for DeviceNet™ installations which allow network devices to be simply added or replaced. Used when devices are exposed to a factory environment and reduced installation time and elimination of miss-wirings are critically important considerations.

Shield
A metallic layer applied over a group of wires to prevent interference between the enclosed wires and external fields or noise.

Smart Sensors
Sensors that have an ASIC embedded directly in/on the control.

Star Topology
A communication network based upon individual nodes connected to a central hub device that receives and directs all transmissions. (See Topology).

STP
Shielded Twisted Pair – a wire used in certain SAB applications.

Switching Hub
A device that interconnects network segments at the data link layer.

TIA 568A/B
Standard 8-pin wiring sequences which defines the position of the individual transmit and receive pairs and the color code used for each wire.

TIA/EIA
Telecommunications Industry Association/Electronic Industry Association – A standards organization which sets guidelines for structured cabling systems used in commercial premises.

Topology
The arrangement in which the nodes of a LAN are connected to each other.

Transceiver
The component in the node that is responsible for the interface to the network.

Trunk Cable
Also known as Bus Cable, it is the main or power and communications cable.

UL
Underwriter's Laboratories.

UTP
Unshielded Twisted Pair – wire used in certain SAB applications.

Velocity of Propagation
A function of the dielectric constant, expressed as a percent of transmission speed of a signal down the wire as compared to free space.

VW-1
Vertical wire flame test rating.

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Protection Codes

IP40 Protection against solid bodies larger than 1mm. No liquid protection defined.

IP65- Dust tight. Protection against water spray from all directions at 43 PSI through a 12mm nozzle.

IP67 Dust tight. Protection against the effects of immersion in water for 30 minutes at a depth of 1 meter.

IP68 Dust tight. Protection against the effects of indefinite immersion in water at a pressure specified by the manufacturer. The manufacturer's specifications must be known if a valid comparison is to be made.

National Electrical Code - Although the NEC covers wire and cable installed in factories, office buildings, etc as well all cable which pass through any floor, wall ceiling or which travel in ducts, plenums and other air handling spaces, each individual municipality, city, county or state can decide whether or not they wish to adopt the NEC as governing law.

NFPA (National Fire Protection Association)

NEMA (National Electrical Manufacturers Association) Defines the degree of protection in the actual test specifications.

NEMA 1- Enclosures are intended for use primarily to provide a degree of protection against limited amounts of falling dirt.

NEMA 3 Enclosures are intended for outdoor use primarily to provide a degree of protection against windblown dust, rain, sleet and external ice formation.

NEMA 4 Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust, rain, sleet, splashing water, hosedown and external ice formation.

NEMA 6 Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against the entry of water during occasional temporary submersion at a limited depth.

NEMA 6P Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against the entry of water during prolonged submersion at a limited depth.

UL and CUL

Designated Underwriters Laboratories "UL Listed" and "UL Recognized", respectively. UL is a nationally recognized laboratory that tests many products to meet safety standards that are defined in their own and other industry specifications.

VDE 0100

Defines the minimum creepage distances of the equipment to prevent hazardous electrical current and voltage for persons and objects. Isolation Class C includes the equipment mainly designed for industrial and agricultural applications in warehouses without heating, in workshops or machine tools.

VW

A flammability rating established by Underwriters Laboratories for wires and cables that pass a specially designed vertical flame test.

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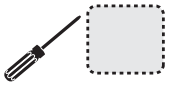
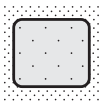
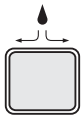
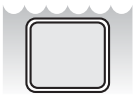
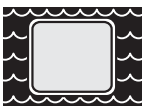
IP Ratings Table - Definition

CODE LETTER (INTERNATIONAL PROTECTION) — IP

FIRST INDEX FIGURE (FOREIGN BODIES PROTECTION) — 6

SECOND INDEX FIGURE (WATER PROTECTION) — 5

INDEX FIGURE	DEGREE OF PROTECTION		
0	No protection		No Protection against accidental contact, no protection against foreign bodies
1	Protection against large foreign bodies		Protection against contact with any large area by hand and against large solid bodies with Ø>50mm
2	Protection against medium sized foreign bodies		Protection against contact with the fingers, protection against small foreign solid bodies with Øv>12mm
3	Protection against small solid foreign bodies		Protection against tools wires, or similar objects with Ø>2.5mm protection against small foreign solid bodies with Ø>2.5mm
4	Protection against grain-shaped foreign bodies		As 3 however 0>1mm
5	Protection against deposits of dust		Full protection against contact. Protection against interior equipment damage due to dust deposits
6	Protection against ingress of dust		Total protection against contact. Protection against penetration of dust

INDEX FIGURE	DEGREE OF PROTECTION		
0	No protection		No Protection against water
1	Drip-Proof		Protection against vertical water drips
2	Drip-Proof		Protection against water drips (up to a 15° angle)
3	Spray-proof		Protection against water drips (up to a 60° angle)
4	Spray-proof		Protection against splashed water from all directions
5	Hose-proof		Protection against splashed water (out of a nozzle) from all directions
6	Protected against flooding		Protection against temporary flooding
7	Protected against immersion		Protected against temporary immersion
8	Water-tight		Protected against water pressure

Ø = diameter of foreign body

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Device List

DNAPT 70
DNETAUXPT 70
DNETAUXPT-PM-1 70
DNETAUXPT-PM-3 70
DNETEXT-C 16
DNESJ 70
DNEST 70
DN-MTR 74
DN-MTR-BAG 74
DN-SPAUX 70
DN-SPNET 32
DNDC302A-Mxxx 54
DNDC303A-Mxxx 54
DNDC220A-Mxxx 54
DNDC230A-Mxxx 54
DNDC304-Mxxx 56
DNDF00A-M500 44
DNDF00A-T100 44
DNDG00A-M500 45
DNDG00A-T100 45
DNYG001 30
DNB00A-M500 21
DNB00A-T100 21
DNE00A-M500 20
DNE00A-T100 20
DNF00A-M500 19
DNF00A-T100 19
DND00A-M500 45
DND00A-T100 45
DND02A-Mxxx 46
DND03A-Mxxx 46
DND100 40
DND101 40
DND12A-Mxxx 50
DND13A-Mxxx 50
DND150 40
DND151 40
DND20A-Mxxx 46
DND21A-Mxxx 48
DND22A-Mxxx 48
DND23A-Mxxx 48
DND29A-Mxxx 48
DND30A-Mxxx 46
DND3020 30
DND31A-Mxxx 48
DND32A-Mxxx 48
DND33A-Mxxx 48
DND39A-Mxxx 48
DND40-Mxxx 56
DND41A-Mxxx 56
DND42A-Mxxx 56
DND43A-Mxxx 56
DND49A-Mxxx 56
DND91A-Mxxx 60
DND92A-Mxxx 50
DND93A-Mxxx 50
DND4000 62
DND4100 62
DND4200 60
DND4300-02 60
DND4500-02 60
DND5304-Mxxx 56
DND6000 62
DND6100 62
DND8000 62
DND8200 60
DND8300-02 60
DND8500-02 60
DN-PT1 72
DN-PT2 72
DN-PT3 72
DN00A-M500 18
DN00A-T100 18
DN01A-Mxxx 22
DN09A-Mxxx 22
DN10A-Mxxx 22
DN11A-Mxxx 24
DN19A-Mxxx 24
DN40-Mxxx 56
DN90A-Mxxx 22
DN91A-Mxxx 60
DN100L 40
DN100 40
DN150L 40
DN150 40
DN2100 38
DN3020 30
DN3020CAP 30
DN3020PM-1 32
DN3020PM-3 32
DN3030-PT-1 72
DN3200 30
DN4000 36
DN4100 38
DN6000 36
DN6100 38
DN8000 36
DN5000-Mxxx 22
DN5100-Mxxx 22
DN5210A-Mxxx 26
DN5290A-Mxxx 26
DN5301A-Mxxx 26
DN5309A-Mxxx 26
DN91A-Mxxx 24
DN99A-Mxxx 24
MICT555 30
TBDDN-444N-88U 14
TBDDN-444P-88U 14
TBDDN-480N-80U 14
TBDDN-480P-80U 14
TBDDN-880N-804 14
TBDDN-880P-804 14
TCDDN-8D0N-10U 12
TCDDN-8D0P-10U 12
TCDDN-888N-11U 12
TCDDN-888P-11U 12
1A4000-34 66
1A4006-34 66
1A5000-34DN 42
1A5006-34DN 42
1R4000A20xxxx 66
1R4000A39xxxx 66
1R4006A20xxxx 66
1R4006A39xxx 66
1R4030 66
1R5030 28
104000A01Mxxx 66
104000A38Mxxx 66
104001A01Mxxx 66
104001A38Mxxx 66
104006A01Mxxx 66
104006A38Mxxx 66
104007A01Mxxx 66
104007A38Mxxx 66
114030A01Mxxx 66
114030A38Mxxx 66
114031A01Mxxx 66
114031A38Mxxx 66
114032A01Mxxx 66
114032A38Mxxx 66
114033A01Mxxx 66
114033A38Mxxx 66
114011A-PM-3 70
115010A 34
115011A-PM-1 32
115011A-PM-3 32
115032A 34
115060A 34
4R5F560005 58
4R5F570005 58
4R5P00D12C305 58
4R5P06D12C305 58
405000D12Mxxx 52
405001D12Mxxx 52
405006D12Mxxx 52
405007D12Mxxx 52
445030D12Mxxx 52
445031D12Mxxx 52
445032D12Mxxx 52
445033D12Mxxx 52
485030D12Mxxx 52
485031D12Mxxx 52
485032D12Mxxx 52
485033D12Mxxx 52
67-0065 28
67-0075 28
8A4000-32 68
8A4006-32 68
8A5000-32DN 64
8A5006-32DN 64
8R4A00A18A120 68
8R4L30 68
8R5L30 58
8R5L500005-35 58
8R5L510005-35 58
8R5L560005-35 58
8R5L570005-35 58
804000xxxMxxx 68
804001xxxMxxx 68
804006xxxMxxx 68
804007xxxMxxx 68
81611 58
81612 58
845030D12Mxxx 52
845031D12Mxxx 52
845032D12Mxxx 52
845033D12Mxxx 52
884030xxxMxxx 68
884031xxxMxxx 68
884032xxxMxxx 68
884033xxxMxxx 68

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Profibus

BA5S00-32 104
BA5S06-32 104
BM5G30PP4Mxxx 90
BM5G31PP4Mxxx 90
BM5G32PP4Mxx 90
BM5G33PP4Mxxx 90
BM5G60PP4Mxxx 90
BM5G61PP4Mxxx 90
BM5G62PP4Mxxx 90
BM5G63PP4Mxxx 90
BM5G70PP4Mxxx 90
BM5G72PP4Mxxx 90
BM5S30PP4Mxxx 92
BM5S31PP4Mxxx 92
BM5S32PP4Mxxx 92
BM5S33PP4Mxxx 92
BM5S60PP4Mxxx 92
BM5S61PP4Mxxx 92
BM5S62PP4Mxxx 92
BM5S63PP4Mxxx 92
BP5G32PP4Mxxx 90
BP5G33PP4Mxxx 90
BP5G62PP4Mxxx 90
BP5G63PP4Mxxx 90
BP5G72PP4Mxxx 90
BP5S32PP4Mxxx 92
BP5S33PP4Mxxx 92
BP5S62PP4Mxxx 92
BP5S63PP4Mxxx 92
BR5L30 100
BR5U70PP4Mxxx3 98
BR5U76PP4Mxxx3 98
B05S06 107
B05S00PP4Mxxx 86
B05S01PP4Mxxx 86
B05S06PP4Mxxx 86
B05S07PP4Mxxx 86
MA9DP0-32 106
MA9D00-32 106
MA9D00-42 106
MM3G60PP4Mxxx 94
MM3G61PP4Mxxx 94
MM3G62PP4Mxxx 94
MM3G63PP4Mxxx 94
MM3G70PP4Mxxx 94
MM3G72PP4Mxxx 94
MM3S60PP4Mxxx 96
MM3S62PP4Mxxx 96
MM3S63PP4Mxxx 96
MP3G62PP4Mxxx 94
MP3G63PP4Mxxx 94
MP3G72PP4Mxxx 94
MP3S62PP4Mxxx 96
MP3S63PP4Mxxx 96
M03S06PP4Mxxx 96
M03S07PP4Mxxx 96
PA9D0B-42 106
PA9D01-42 106
PA9S01-42 106
PBAPT 114
PDTS01 102
P03S07PP4Mxxx 96
TBDPB-408P-B8U 82
TBDPB-444N-B8U 82
TBDPB-444P-B8U 82
TBDPB-462N-B8U 82
TBDPB-462P-B8U 82
TBDPB-480N-B8U 82
TBDPB-480P-B8U 82
TBDPB-808P-B84 82
TBDPB-844N-B84 82
TBDPB-844P-B84 82
TBDPB-862N-B84 82
TBDPB-862P-B84 82
TBDPB-880N-B84 82
TBDPB-880P-B84 82
TCDPB-8B4N-B1U 80
TCDPB-8B4P-B1U 80
TCDPB-8C2N-B1U 80
TCDPB-8C2P-B1U 80
TCDPB-8D0N-B1U 80
TCDPB-8D0P-B1U 80
TCDPB-888N-B1U 80
TCDPB-888P-B1U 80
1R5000A20Axxx 112
1R5006A20Axxx 112
105000A01Mxxx 108
105001A01Mxxx 108
105006A01Mxxx 108
105007A01Mxxx 108
115030A01Mxxx 108
115031A01Mxxx 108
115032A01Mxxx 108
115033A01Mxxx 108
51209-030 112
8A5000-32 110
8A5006-32 110
8R5A00A18A120 110
8R5L30 110
805000xxxMxxx 110
805001xxxMxxx 110
805006xxxMxxx 110
805007xxxMxxx 110
81688-030 100
81689-030 100
85-0001 85
885030xxxMxxx 110
885031xxxMxxx 110
885032xxxMxxx 110
885033xxxMxxx 110

Industrial Ethernet

DRL-EDS-OPC-BSC 140
DRL-EDS-OPC-ENT 140
DRL-EDS-OPC-EXP 140
DRL-002 140
DRL-111-xxx 140
DRL-241-xxx 140
DRL-250 140
DRL-280 140
DRL-281-xxx 140
DRL-290 140
DRL-332-xxx 140
DRL-350 140
DRL-362-xxx 140
DRL-380 140
ENDR2FB5 124
ENHSAURR8 139
ENPR1FF5 125
ENSP1F5 127
ENSP1F5C305 127
ENSP6F5 127
ENSR1FB5 126
ENSR1FB5C305 126
ENSR2FB5C305 126
ENSR3FB5C305 126
ENS1115Mxxx 122
ERWAAJ3000C050 136
ERWAAU3000C050 136
ERWAAU7000C050 136
ERWD2J30 136
ERWD2U30 136
ERWD2U70 136
ERWF2U70 136
ERWPAU7003M006 136
ER1PADAPTER 136
ER1PADAPTER90 136
EWWA06003Mxxx 134
EWWA06010Mxxx 134
EWWA06015Mxxx 134
EWWA06203Mxxx 134
EWWA06210Mxxx 134
EWWA06215Mxxx 134
EWWA06303Mxxx 134
EWWA06310Mxxx 134
EWWA06315Mxxx 134
E1AS00-52 138
E1AS06-52 138
E1WB03003M002 134
E1WB03015M002 134
E1WB03010M002 134
E10A00603Mxxx 130
E10A00610Mxxx 130
E10A00615Mxxx 130
E10A00703Mxxx 130
E10A00710Mxxx 130
E10A00715Mxxx 130
E11A06003Mxxx 132
E11A06010Mxxx 132
E11A06015Mxxx 132
E11A06015MxxxD 132
E11A06203Mxxx 132
E11A06210Mxxx 132
E11A06215Mxxx 132
E11A06303Mxxx 132
E11A06310Mxxx 132
E11A06315Mxxx 132
E11A06315MxxxD 132
E16A03003Mxxx 132
E11B03003M002 132
E11B03010M002 132
E11B03015M002 132
E66E06003Mxxx 132
TEN-888-R18-05 120
104000A01Mxxx 139

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