

DeviceNet™ *piconet* Stations

TURCK's *piconet* DeviceNet stations are compact rugged stations designed for machine mounting. These stations allow easy connection of standard I/O devices such as sensors, limit switches, valves and pilot lights to a DeviceNet network, typically without a protective enclosure. This is made possible by epoxy-filled station housings, all-metal connectors and visible rotary address switches, among other things.

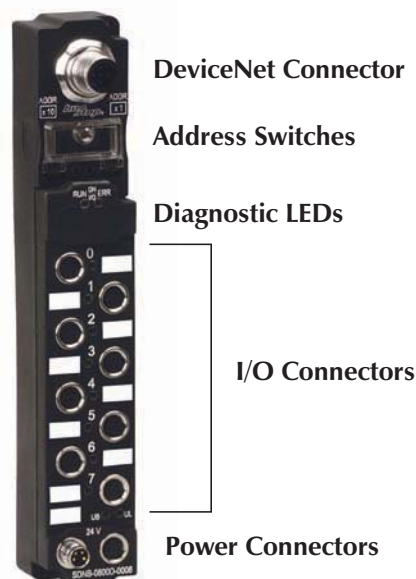
piconet's small size sets them apart from other stations. *piconet* stations are the smallest rugged I/O modules available, with a standard housing footprint of 30 x 175 mm. They are also available with *picofast*® (M8) connectors for I/O, making them ideally suited for small-space applications.

Mechanical Specifications

TURCK DeviceNet *piconet* stations are designed to be mounted directly on machines and work cells with no separate enclosure or housing necessary. Epoxy-filled housing creates a durable station that allows it to be mounted in most industrial environments. Detailed environmental specifications include:

- Housing material: Glass filled nylon
- Connector material: Nickel-plated brass
- Protection level: NEMA 1,3,4,12,13; IEC IP 67
- Operating temperature: 0 to 55°C

The station's components are identified in the figure below.



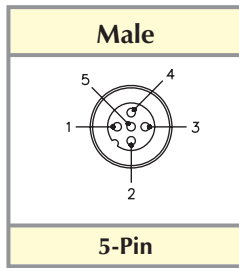
Connectors

DeviceNet™ *piconet*® stations provide connectors for bus and I/O power. Unlike other TURCK DeviceNet stations, *piconet* stations power all I/O from auxiliary power.

Bus connector

DeviceNet eurofast Pinouts

- 1 = Shield/Drain
- 2 = V+ (24 VDC)
- 3 = V- (0 VDC)
- 4 = CAN High
- 5 = CAN Low



picofast® I/O connectors

piconet stations with discrete I/O are available with *picofast* (M8) connectors. See the individual product pages in this catalog for detailed pinouts.

eurofast I/O connectors

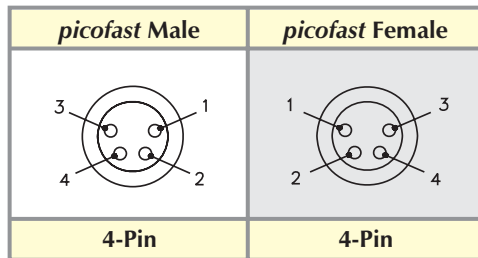
piconet stations with analog and special function I/O are available with *eurofast* (M12), and in some cases M23, connectors. See the individual product pages in this catalog for detailed pinouts.

Auxiliary Power Connectors

piconet stations have two 4-pin *picofast* auxiliary power connectors, one male and one female, that allow the stations to be “daisy-chained” from one power supply to another without using a T-connector. Two power supplies are connected through the auxiliary supply; one for the station electronics and inputs and one for outputs.

Aux. Power

- 1 = $U_B +$
- 2 = $U_L +$
- 3 = Gnd
- 4 = Gnd



Stations may be available with different connector options than the standards mentioned here. Consult your local sales representative for different connector options.

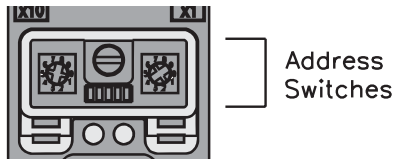
Power

Common power specifications for *piconet* stations:

- Bus (DeviceNet) Voltage: 11-26 VDC
- Aux Power Voltage: 24 VDC (nominal)
- Input Voltage: (From Auxiliary supply, U_B)
- Output Voltage: From Auxiliary supply, U_L

Addressing

DeviceNet stations must have a network address for communication. The address for *piconet* stations may be set via the visible rotary switches under the clear plastic cover on the front of the station.



$$\text{Address} = 6 \times 10 + 3 \times 1 = 63$$

The pair of switches represents the address as a decimal number; the left switch being the 10's multiplier and the right switch the 1's multiplier. To program the station, rotate the switches with a small slotted screwdriver until the arrows point to the appropriate numbers for the chosen address.

Diagnostics

piconet DeviceNet stations provide two LEDs for diagnosing communication problems.

Module Status

- Green: Working properly
- Flashing green: Detecting baud rate
- Flashing red: Input short-circuit

Network Status

- Green: Connection established
- Flashing green: Waiting for connection
- Flashing red: Connection timed out
- Red: Cannot connect

There is an additional LED for each input on the station. This LED indicates:

- Off: Input is off
- Green: Input is on

There is also an LED to indicate the status of the two auxiliary power supplies.

- Off: Power is missing
- On: Power is present

TURCK's USA website is your most complete and up-to-date source for product documentation, CAD files and more. Search results produce downloadable documentation or request for quote (RFQ). Additional product information or CAD files are easily requested and promptly filled.

Visit our site for new product releases, approvals, white papers, application support and more.

Access to all TURCK catalogs, press releases, white papers and tutorials

Search for products by part number, ID number or key word

Complete category listing of TURCK products

Access to CAD, wiring and pinout diagrams

Download or e-mail files, request for quote

Option to e-mail pages

Contact a TURCK representative

Part Number	ID Number	Catalog Page	Manual / Add'l	Data Sheet	CAD	Drawings	Notes
8647-240-1	M8027174						
8647-240-1T	M8027175						
8647-240-1T	M8027177						
8647-240-7C	M8027178						
8647-240-7C	M8027178						

www.turck.com

Input Station



SDNB-0800D-0008



- Rugged, Fully Potted Stations
- IP 67 Protection
- Small Footprint
- Automatic Baud Rate Sensing

Electrical

- Operating Current: <75 mA plus sensor currents (from U_B)
- Sensor Current: <500 mA total of all sensors (from U_B)

Power Distribution

- Inputs: U_B Power supply

Mechanical

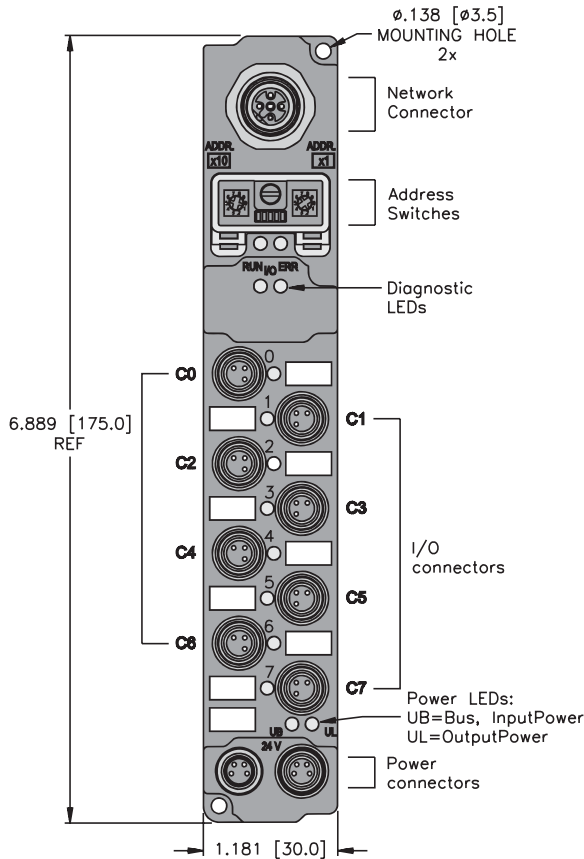
- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IP 67
- Vibration: IEC 68, part 2-6

Material

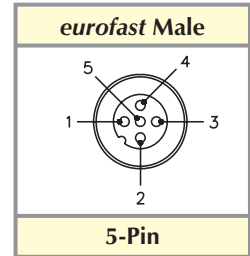
- Connectors: Nickel-plated brass
- Housing: Nylon

Diagnostics (Physical)

- One LED indicates an I/O fault for the entire station
- LEDs to indicate status of DeviceNet communication

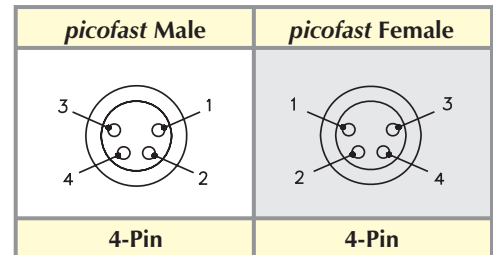


DeviceNet Pinout



- 1 = Shield
- 2 = V+
- 3 = V-
- 4 = CAN_H
- 5 = CAN_L

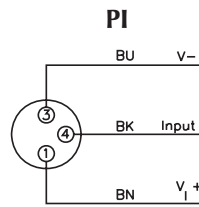
Aux. Power



- 1 = U_B+
- 2 = U_L+
- 3 = Gnd
- 4 = Gnd

Inputs									Data
Part Number	Input Count	Connectors	Pinout	Inputs per Connector	Sensor Style	Group Diagnostics	Individual Diagnostics	Wire-Break Detection	Map
SDNB-0800D-0008	8	0-7	PI	1	PNP				1

Input Connectors



Mating cordset:
PSG 3M-*

I/O Data Map 1

In	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0
1	IS-7	IS-6	IS-5	IS-4	IS-3	IS-2	IS-1	IS-0	

Input/Output Stations

- Rugged, Fully Potted Stations
- IP 67 Protection
- Small Footprint
- Automatic Baud Rate Sensing



SDNB-0808D-0001



Electrical

- Operating Current: <75 mA plus sensor currents (from U_B)
- Sensor Current: <500 mA total of all sensors (from U_B)
- Output Current: <500 mA per output (from U_L)

Power Distribution

- Inputs: U_B Power supply
- Outputs: U_L Power supply

Mechanical

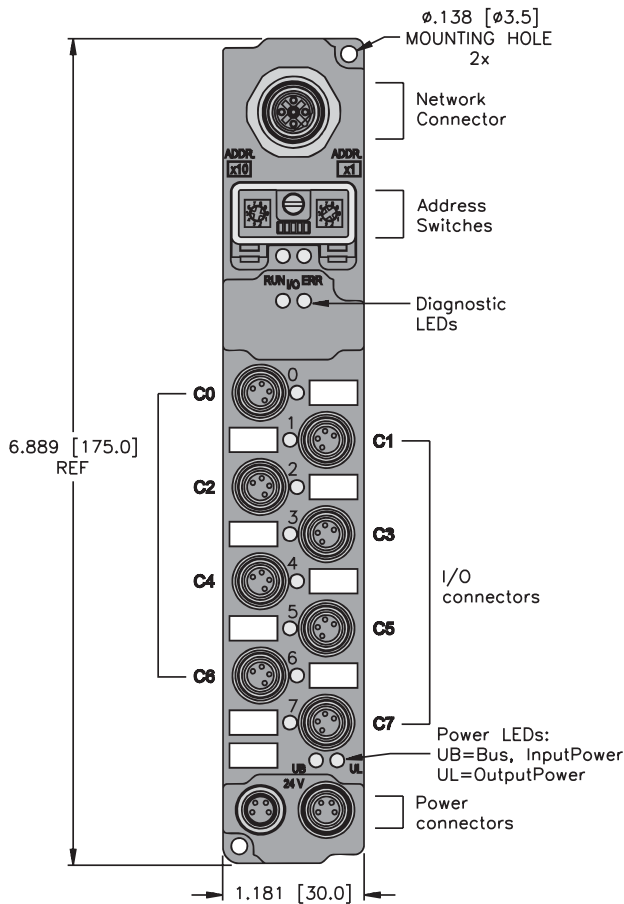
- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IEC IP 67
- Vibration: IEC 68, part 2-6

Material

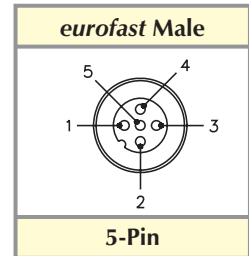
- Connectors: Nickel-plated brass
- Housing: Nylon

Diagnostics (Physical)

- One LED indicates an I/O fault for the entire station
- LEDs to indicate status of DeviceNet communication

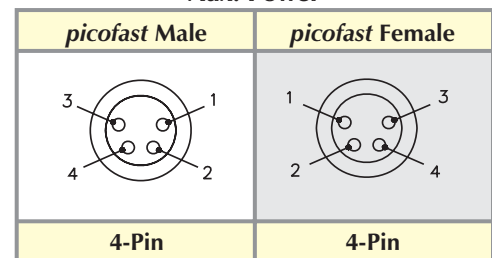


DeviceNet Pinout



- 1 = Shield
- 2 = V+
- 3 = V-
- 4 = CAN_H
- 5 = CAN_L

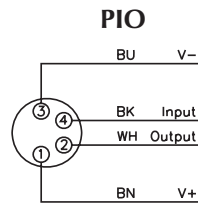
Aux. Power



- 1 = U_B+
- 2 = U_L+
- 3 = Gnd
- 4 = Gnd

Inputs										Outputs				Data		
Part Number	Input Count	Connectors	Pinout	Inputs per Connector	Sensor Style	Group Diagnostics	Individual Diagnostics	Wire-Break Detection	Output	Connectors	Pinout	Outputs per Connector	Current	Individual Diagnostics	Wire-Break Detection	I/O Map
SDNB-0808D-0001	8	0-7	PIO	1	PNP				8	0-7	PIO	1	0.5 A			1

Input/Output Connectors



Mating cordset:
PSG 4M-*

I/O Data Map 1

	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
In	0	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0
	1	IS-7	IS-6	IS-5	IS-4	IS-3	IS-2	IS-1	IS-0
	2	OS-7	OS-6	OS-5	OS-4	OS-3	OS-2	OS-1	OS-0
Out	0	0-7	0-6	0-5	0-4	0-3	0-2	0-1	0-0

Output Stations



SDNB-0008D-0006

SDNB-0008D-0002



- Rugged, Fully Potted Stations
- IP 67 Protection
- Small Footprint
- Automatic Baud Rate Sensing

Electrical

- Operating Current: <75 mA (from U_B)
- Output Current: See table on facing page (from U_L)

Power Distribution

- Outputs: U_L Power supply

Mechanical

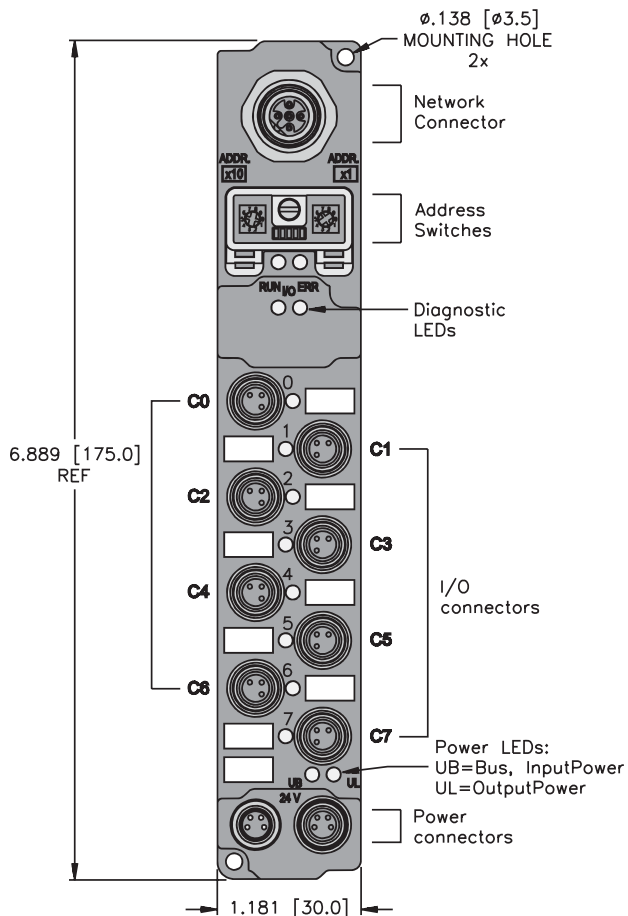
- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IEC IP 67
- Vibration: IEC 68, part 2-6

Material

- Connectors: Nickel-plated brass
- Housing: Nylon

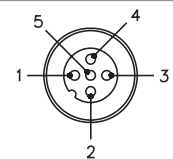
Diagnostics (Physical)

- One LED indicates an I/O fault for the entire station
- LEDs to indicate status of DeviceNet communication



DeviceNet Pinout

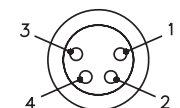
eurofast Male



5-Pin

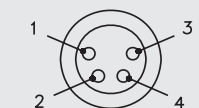
Aux. Power

picofast® Male



4-Pin

picofast® Female

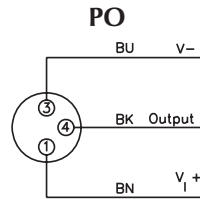


4-Pin

Outputs								Data
Part Number	Output Count	Connectors	Pinout	Outputs per Connector	Current	Individual Diagnostics	Wire-Break Detection	I/O Map
SDNB-0008D-0006	8	0-7	PO	1	0.5 A			1
SDNB-0008D-0002	8	0-7	PO	1	2 A*			1

*Note: Total output current for the station is limited to 4 A.

Output Connectors



Mating cordset:

PSG 3M-*

I/O Data Map 1

	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
In	0	0S-7	0S-6	0S-5	0S-4	0S-3	0S-2	0S-1	0S-0
Out	0	0-7	0-6	0-5	0-4	0-3	0-2	0-1	0-0

Input/Output Stations



- Rugged, Fully Potted Stations
- IP 67 Protection
- Small Footprint
- Automatic Baud Rate Sensing

Electrical

- Operating Current: <75 mA plus sensor currents (from U_B)
- Sensor Current: <500 mA total of all sensors (from U_B)
- Output Current: See table on facing page (from U_L)

Power Distribution

- Inputs: U_B Power supply
- Outputs: U_L Power supply

Mechanical

- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IEC IP 67
- Vibration: IEC 68, part 2-6

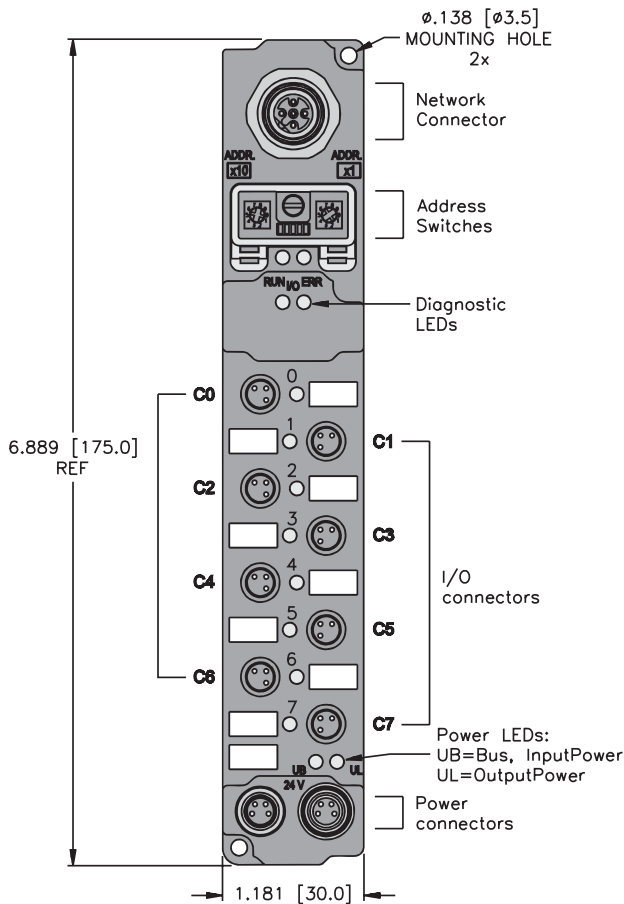
Material

- Connectors: Nickel-plated brass
- Housing: Nylon

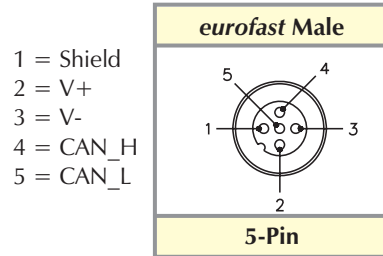
Diagnostics (Physical)

- One LED indicates an I/O fault for the entire station
- LEDs to indicate status of DeviceNet communication

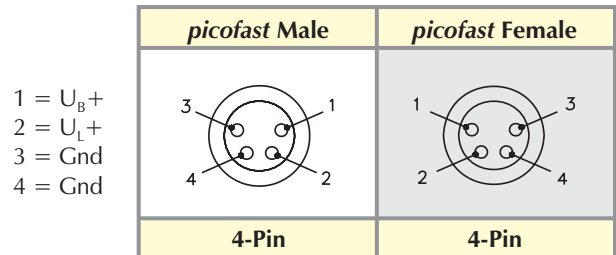
SDNB-0404D-0005
SDNB-0404D-0001



DeviceNet Pinout



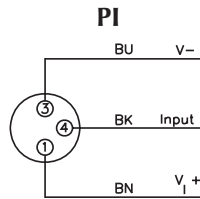
Aux. Power



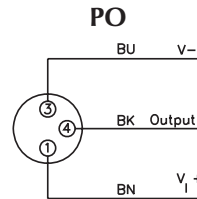
Part Number	Inputs								Outputs				Data			
	Input Count	Connectors	Pinout	Inputs per Connector	Sensor Style	Group Diagnostics	Individual Diagnostics	Wire-Break Detection	Output	Connectors	Pinout	Outputs per Connector	Current	Individual Diagnostics	Wire-Break Detection	I/O Map
SDNB-0404D-0005	4	0-3	PI	1	PNP				4	4-7	PO	1	2 A*			1
SDNB-0404D-0001	4	0-3	PI	1	PNP				4	4-7	PO	1	0.5 A			1

*Note: Total output current for the station is limited to 4 A.

Input/Output Connectors



Mating cordset:
PSG 3M-*



Mating cordset:
PSG 3M-*

I/O Data Map 1

	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
In	0	IS-3	IS-2	IS-1	IS-0	I-3	I-2	I-1	I-0
	1	-	-	-	-	OS-3	OS-2	OS-1	OS-0
Out	0	-	-	-	-	0-3	0-2	0-1	0-0

Analog Input Stations



SDNB-40A-0005
SDNB-40A-0007



- Rugged, Fully Potted Stations
- IP 67 Protection
- Small Footprint
- Automatic Baud Rate Sensing

Electrical

- Operating Current: <75 mA plus sensor currents (from U_B)

Power Distribution

- Inputs: U_B Power supply

Mechanical

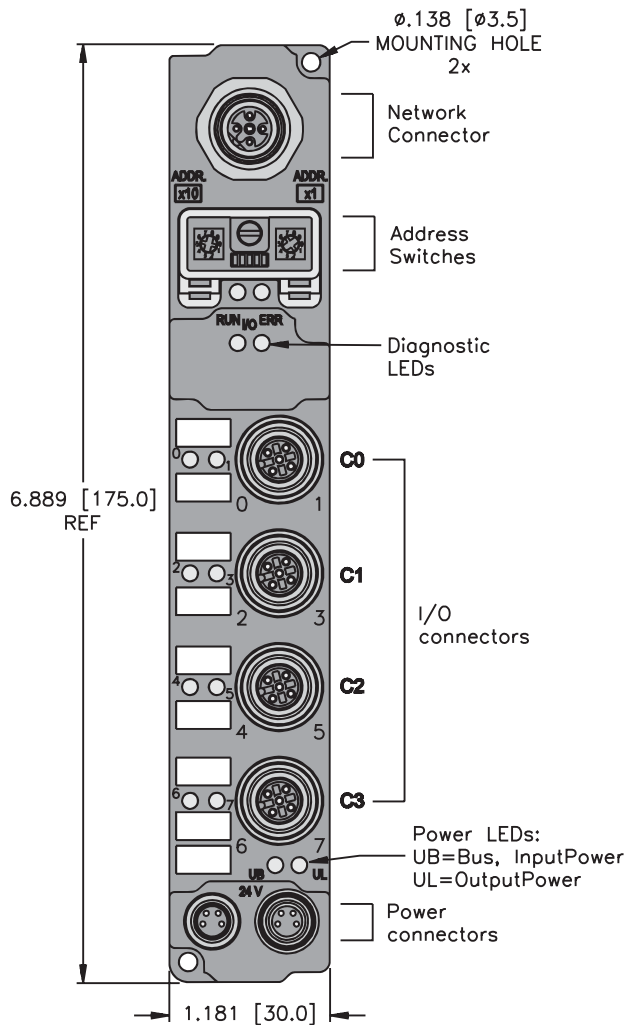
- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IEC IP 67
- Vibration: IEC 68, part 2-6

Material

- Connectors: Nickel-plated brass
- Housing: Nylon

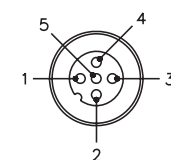
Diagnostics (Physical)

- One LED indicates an I/O fault for the entire station
- LEDs to indicate status of DeviceNet communication



DeviceNet Pinout

eurofast Male

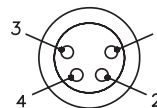


5-Pin

- 1 = Shield
- 2 = V+
- 3 = V-
- 4 = CAN_H
- 5 = CAN_L

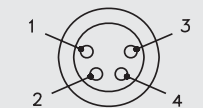
Aux. Power

picofast Male



4-Pin

picofast Female



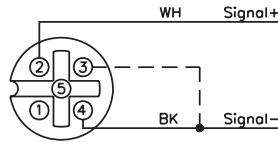
4-Pin

- 1 = U_B+
- 2 = U_L+
- 3 = Gnd_B
- 4 = Gnd_L

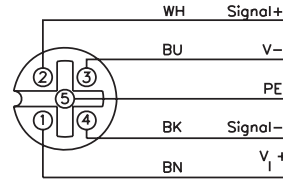
Inputs									Data
Part Number	Input Count	Connectors	Pinout	Inputs Per Connector	Sensor Style	Group Diagnostics	Individual Diagnostics	Wire-Break Detection	I/O Map
SDNB-40A-0005	4	0-3	AI	1	-10/0 to 10 V				1
SDNB-40A-0007	4	0-3	AI	1	0 to 20 mA				1

Input/Output Connectors

AI



Loop Powered (Isolated)



DeviceNet Powered Transducer

Mating cordset:

Isolated Loop:

RK 4.5T-*M-RS 4.5T/S653

Loop Powered:

RK 4.5T-*M-RS 4.5T/LPS/S653

Note: The "LPS" in the part number indicates that the cord jumpers pin 3 to pin 4 on the male side to the signal- to the station common. Pin 3 is not connected at the female end.

Applications:

TURCK Sensors:
LU; RK 4.4T-*RS 4.4T/S1118

LI; RK 4.4T-*RS 4.4T/S1120

I/O Data Map 1

In	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	Channel 0, MSB							
	1	Channel 0, LSB							
	2	Channel 1, MSB							
	3	Channel 1, LSB							
	4	Channel 2, MSB							
	5	Channel 2, LSB							
	6	Channel 3, MSB							
	7	Channel 3, LSB							
8	-	-	-	-	AIS-3	AIS-2	AIS-1	AIS-0	

Temperature Input Stations



SDNB-40A-0004
SDNB-40A-0009



- Rugged, Fully Potted Stations
- IP 67 Protection
- Small Footprint
- Automatic Baud Rate Sensing

Electrical

- Operating Current: <75 mA plus sensor currents (from U_B)

Power Distribution

- Inputs: U_B Power supply

Mechanical

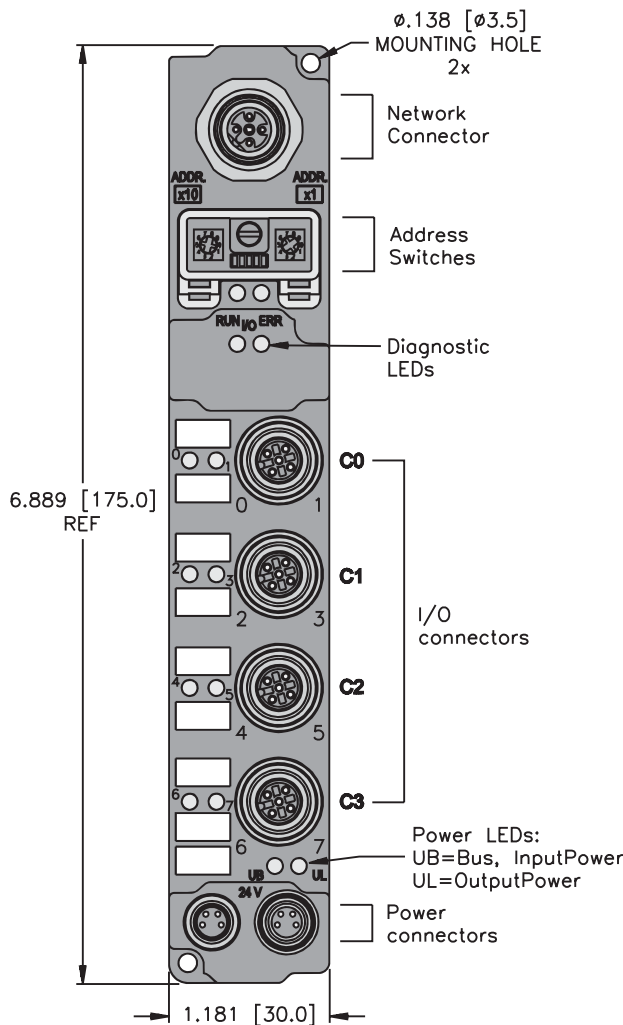
- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IEC IP 67
- Vibration: IEC 68, part 2-6

Material

- Connectors: Nickel-plated brass
- Housing: Nylon

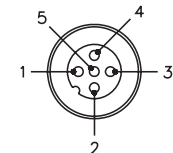
Diagnostics (Physical)

- One LED indicates an I/O fault for the entire station
- LEDs to indicate status of DeviceNet communication



DeviceNet Pinout

eurofast Male

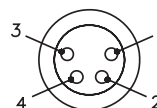


- 1 = Shield
- 2 = V+
- 3 = V-
- 4 = CAN_H
- 5 = CAN_L

5-Pin

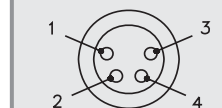
Aux. Power

picofast Male



4-Pin

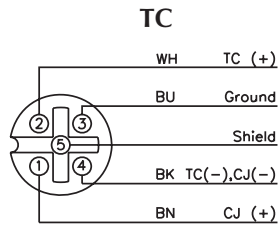
picofast Female



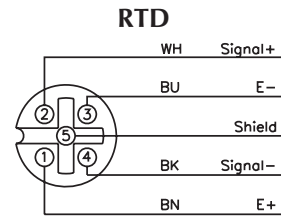
4-Pin

Inputs										Data
Part Number	Input Count	Connectors	Pinout	Inputs per Connector	Sensor Style	Group Diagnostics	Individual Diagnostics	Wire-Break Detection	I/O Map	
SDNB-40A-0004	4	0-3	TC	1	TC				1	
SDNB-40A-0009	4	0-3	RTD	1	RTD				1	

Input/Output Connectors



Mating connector (field wireable):
 WAS5-THERMO
 (includes cold junction compensation)



Mating cordset:
 RK 4.5T-*-RS 4.5T

I/O Data Map 1

In	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	Channel 0, MSB							
	1	Channel 0, LSB							
	2	Channel 1, MSB							
	3	Channel 1, LSB							
	4	Channel 2, MSB							
	5	Channel 2, LSB							
	6	Channel 3, MSB							
	7	Channel 3, LSB							
8	-	-	-	-	AIS-3	AIS-2	AIS-1	AIS-0	

Analog Output Stations

- Rugged, Fully Potted Stations
- IP 67 Protection
- Small Footprint
- Automatic Baud Rate Sensing



SDNB-04A-0009
SDNB-04A-0007



Electrical

- Operating Current: <75 mA (from U_B)

Power Distribution

- Outputs: U_L Power supply

Mechanical

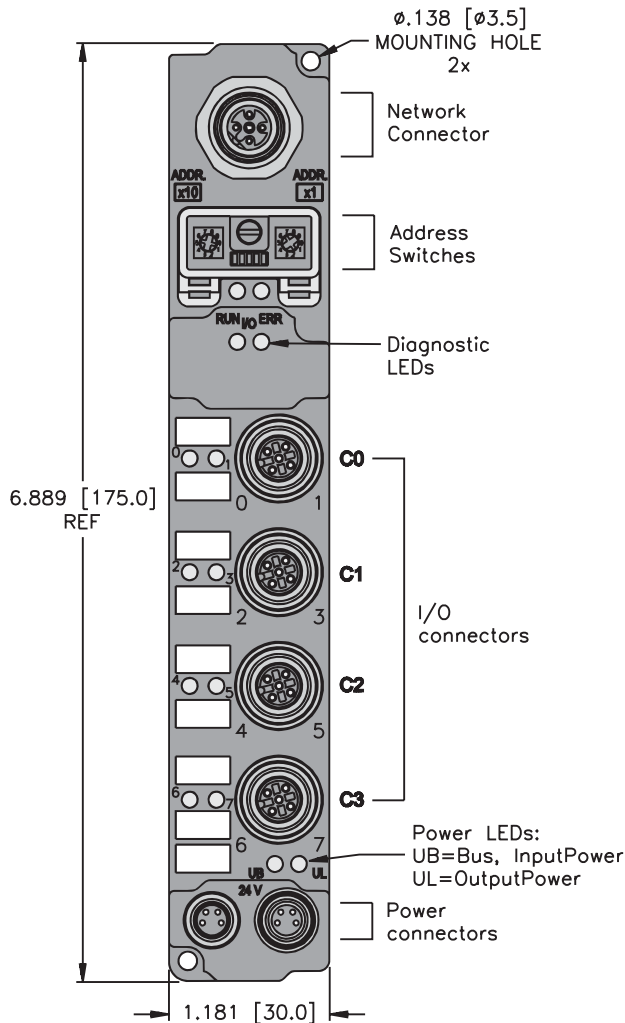
- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IEC IP 67
- Vibration: IEC 68, part 2-6

Material

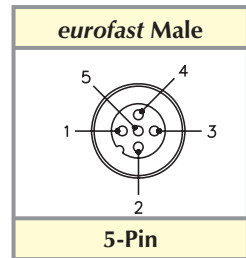
- Connectors: Nickel-plated brass
- Housing: Nylon

Diagnostics (Physical)

- One LED indicates an I/O fault for the entire station
- LEDs to indicate status of DeviceNet communication

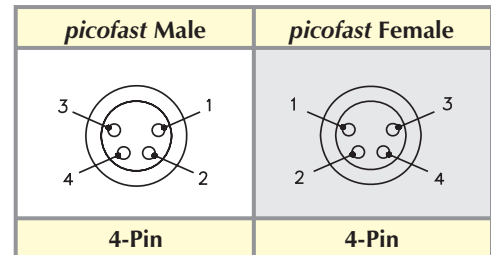


DeviceNet Pinout



- 1 = Shield
- 2 = V+
- 3 = V-
- 4 = CAN_H
- 5 = CAN_L

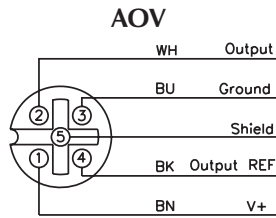
Aux. Power



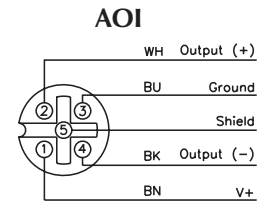
- 1 = U_B+
- 2 = U_L+
- 3 = Gnd_B
- 4 = Gnd_L

Outputs								Data
Part Number	Output Count	Connectors	Pinout	Outputs per Connector	Output Style	Individual Diagnostics	Wire-Break Detection	I/O Map
SDNB-04A-0009	4	0-3	AOI	1	0 to 20 mA			1
SDNB-04A-0007	4	0-3	AOV	1	-10/0 to 10 V			1

Output Connectors



Mating cordset:
RK 4.5T-*-RS 4.5T



DeviceNet Powered Transducer
Mating cordset:
RK 4.5T-*-RS 4.5T

Applications:

- TURCK Sensors:
LU; RK 4.4T-*-RS 4.4T/S1118
- LI; RK 4.4T-*-RS 4.4T/S1120

I/O Data Map 1

In	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	-	-	-	-	AOS-3	AOS-2	AOS-1	AOS-0
Out	0	Channel 0, MSB							
	1	Channel 0, LSB							
	2	Channel 1, MSB							
	3	Channel 1, LSB							
	4	Channel 2, MSB							
	5	Channel 2, LSB							
	6	Channel 3, MSB							
	7	Channel 3, LSB							

Counter Station



SDNB-0202D-0003



- Rugged, Fully Potted Stations
- IP 67 Protection
- Small Footprint
- Automatic Baud Rate Sensing

Electrical

- Operating Current: <75 mA plus device currents (from U_B)
- Input Current: <500 mA total of all sensors (from U_B)
- Output Current: <500 mA per output (from U_L)
- Frequency: 100 KHz

Power Distribution

- Inputs: U_B Power supply
- Outputs: U_L Power supply

Mechanical

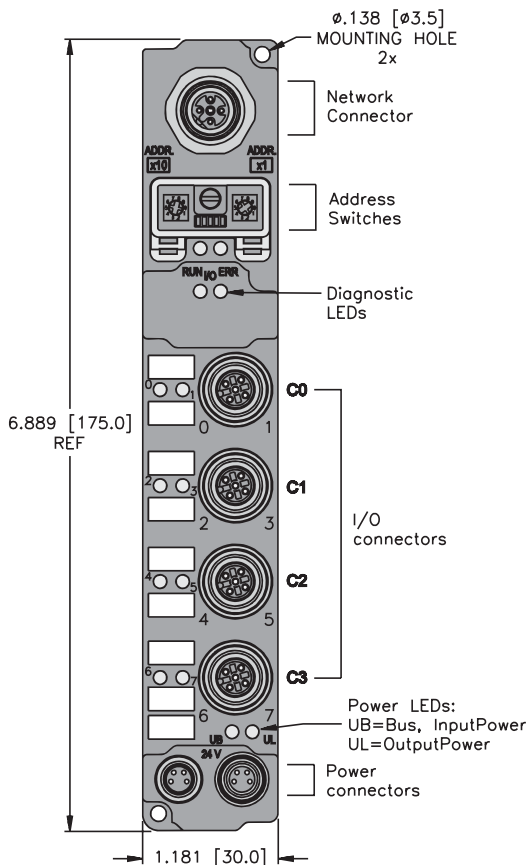
- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IEC IP 67
- Vibration: IEC 68, part 2-6

Material

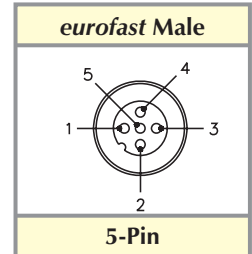
- Connectors: Nickel-plated brass
- Housing: Nylon

Diagnostics (Physical)

- One LED indicates an I/O fault for the entire station
- LEDs to indicate status of DeviceNet communication

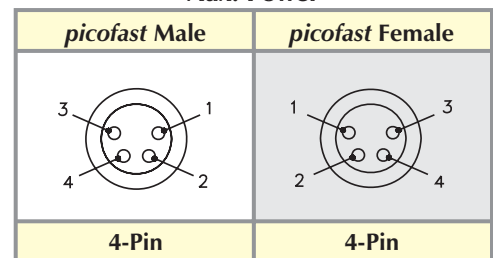


DeviceNet Pinout



- 1 = Shield
- 2 = V+
- 3 = V-
- 4 = CAN_H
- 5 = CAN_L

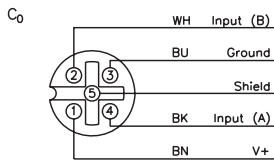
Aux. Power



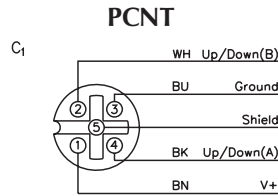
- 1 = U_B+
- 2 = U_L+
- 3 = Gnd_B
- 4 = Gnd_L

Inputs										Outputs				Data		
Part Number	Input Count	Connectors	Pinout	Inputs per Connector	Sensor Style	Group Diagnostics	Individual Diagnostics	Wire-Break Detection	Output Count	Connectors	Pinout	Outputs per Connector	Current	Individual Diagnostics	Wire-Break Detection	I/O Map
SDNB-0202D-0003	2	0-3	PCNT	2	Counter				2	0-3	PCNT	2	0.5 A			1

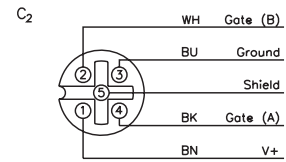
Input/Output Connectors



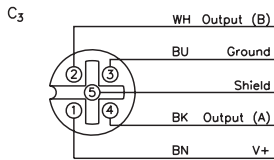
Mating cordset:
RK 4.5T-*-RS 4.5T



Mating cordset:
RK 4.5T-*-RS 4.5T



Mating cordset:
RK 4.5T-*-RS 4.5T



Mating cordset:
RK 4.5T-*-RS 4.5T

I/O Data Map 1

	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	
In	0	Channel 0 - Status								
	1	Channel 0, Byte 0								
	2	Channel 0, Byte 1								
	3	Channel 0, Byte 2								
	4	Channel 0, Byte 3								
	5	Channel 1 - Status								
	6	Channel 1, Byte 0								
	7	Channel 1, Byte 1								
	8	Channel 1, Byte 2								
	9	Channel 1, Byte 3								
Out	10	Res.						C2-S	C1-S	
	0	Channel 0 - Control								
	1	Channel 0, Byte 0								
	2	Channel 0, Byte 1								
	3	Channel 0, Byte 2								
	4	Channel 0, Byte 3								
	5	Channel 1 - Control								
	6	Channel 1, Byte 0								
	7	Channel 1, Byte 1								
	8	Channel 1, Byte 2								
9	Channel 1, Byte 3									

Incremental Encoder Station



SDNB-10S-0001

- Rugged, Fully Potted Stations
- IP 67 Protection
- Small Footprint
- Automatic Baud Rate Sensing

Electrical

- Operating Current: <75 mA plus device currents (from U_B)

Power Distribution

- Inputs: U_B Power supply

Mechanical

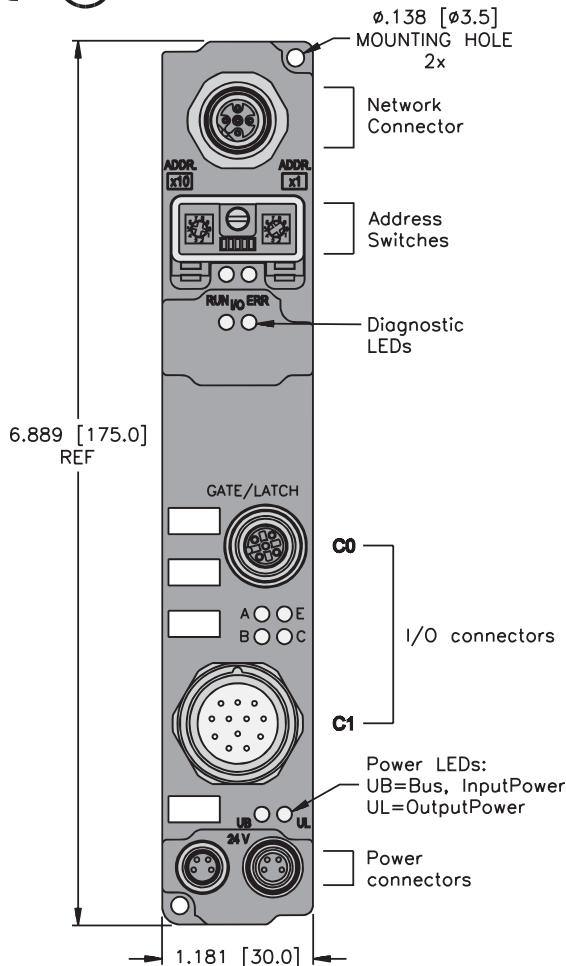
- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IEC IP 67
- Vibration: IEC 68, part 2-6

Material

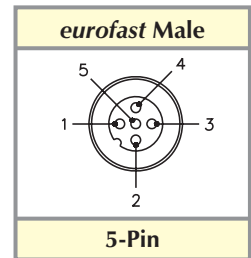
- Connectors: Nickel-plated brass
- Housing: Nylon

Diagnostics (Physical)

- One LED indicates an I/O fault for the entire station
- LEDs to indicate status of DeviceNet communication

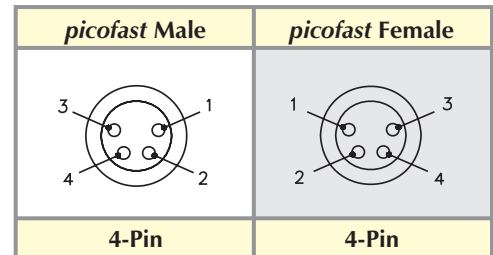


DeviceNet Pinout



- 1 = Shield
- 2 = V+
- 3 = V-
- 4 = CAN_H
- 5 = CAN_L

Aux. Power

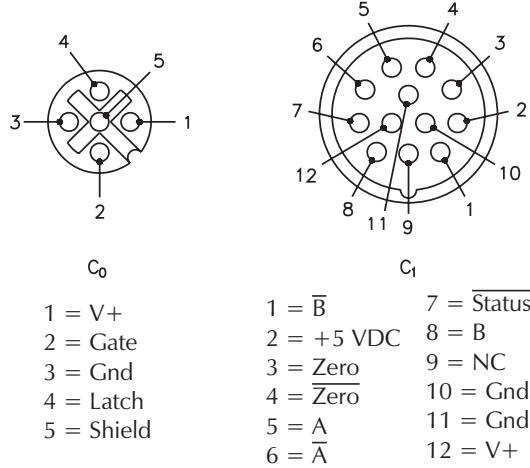


- 1 = U_B+
- 2 = U_L+
- 3 = Gnd
- 4 = Gnd

Inputs									Data
Part Number	Input Count	Connectors	Pinout	Inputs Per Connector	Sensor Style	Group Diagnostics	Individual Diagnostics	Wire-Break Detection	I/O Map
SDNB-10S-0001	1	0-1	ENC	1	Encoder				1

Input/Output Connectors

ENC



I/O Data Map 1

	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
In	0	Serial Interface - Status							
	1	Count Value - High (MSB)							
	2	Count Value - Low (LSB)							
	3	Latch							
	4	Period Value - High (MSB)							
	5	Period Value - Low (LSB)							
Out	6	Device Status							
	0	Serial Interface - Control							
	1	Set Value - High (MSB)							
	2	Set Value - Low (LSB)							
	3	Reserved							
	4	Reserved							
	5	Reserved							

Serial Interface Stations



SDNB-10S-0002
SDNB-10S-0004

- Rugged, Fully Potted Stations
- IP 67 Protection
- Small Footprint
- Automatic Baud Rate Sensing

Electrical

- Operating Current: <75 mA (from U_B)

Mechanical

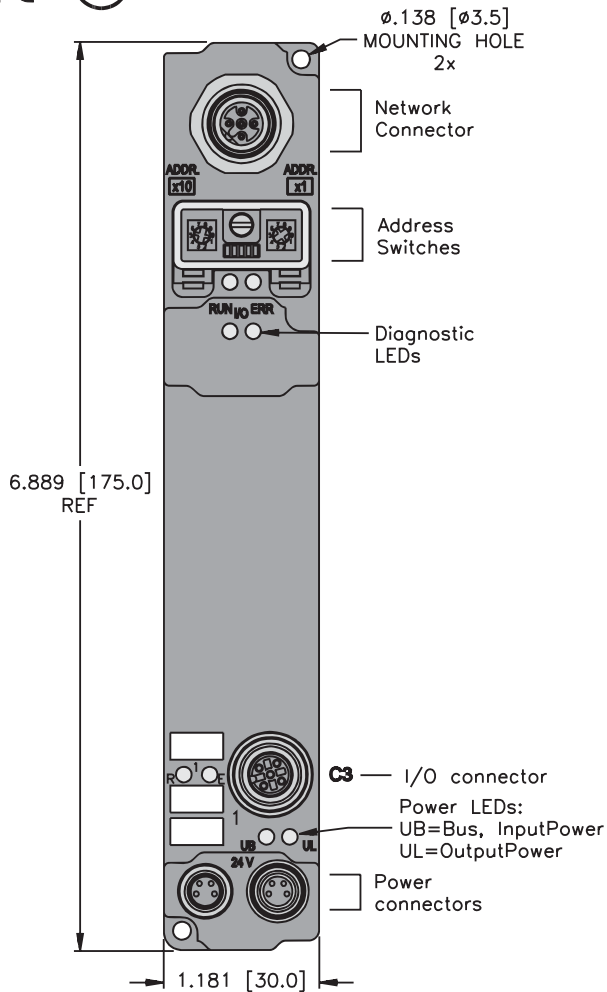
- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IEC IP 67
- Vibration: IEC 68, part 2-6

Material

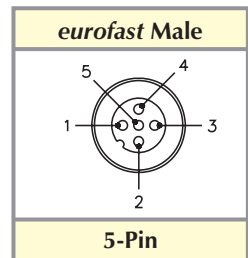
- Connectors: Nickel-plated brass
- Housing: Nylon

Diagnostics (Physical)

- One LED indicates an I/O fault for the entire station
- LEDs to indicate status of DeviceNet communication

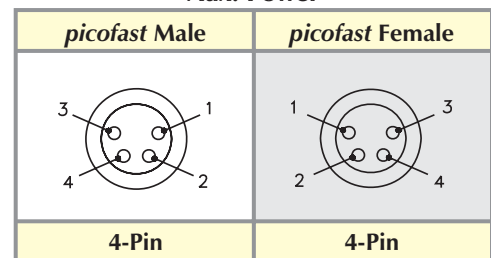


DeviceNet Pinout



- 1 = Shield
- 2 = V+
- 3 = V-
- 4 = CAN_H
- 5 = CAN_L

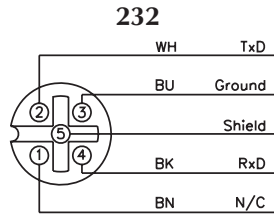
Aux. Power



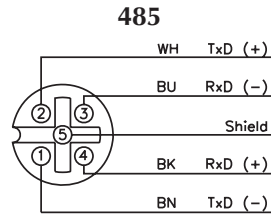
- 1 = U_B+
- 2 = U_L+
- 3 = Gnd
- 4 = Gnd

Part Number	Channel Count	Connectors	Pinout	Channels per Connector	Interface Type	Data bytes per transaction	Individual Diagnostics	Wire-Break Detection	I/O	Data
SDNB-10S-0002	1	0	232	1	RS232	3 to 5				1
SDNB-10S-0004	1	0	485	1	RS485/422	3 to 5				1

Input/Output Connectors



Mating cordset:
RK 4.5T-*-RS 4.5T



Mating cordset:
RK 4.5T-*-RS 4.5T

I/O Data Map 1

	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
In	0	Serial Interface Status							
	1	Data 0							
	2	Data 1							
	3	Data 2							
	4	Data 3							
	5	Data 4							
Out	6	Device Status							
	0	Serial Interface Control							
	1	Data 0							
	2	Data 1							
	3	Data 2							
	4	Data 3							
5	Data 4								

*Note: Five data byte configuration shown. Can be configured for 3, 4 or 5 data bytes. Consult user manual for details.

SSI Station



- Rugged, Fully Potted Stations
- IP 67 Protection
- Small Footprint
- Automatic Baud Rate Sensing

Electrical

- Operating Current: <75 mA plus sensor currents (from U_B)

Mechanical

- Operating Temperature: 0 to +55°C (+32 to +131°F)
- Protection: IEC IP 67
- Vibration: IEC 68, part 2-6

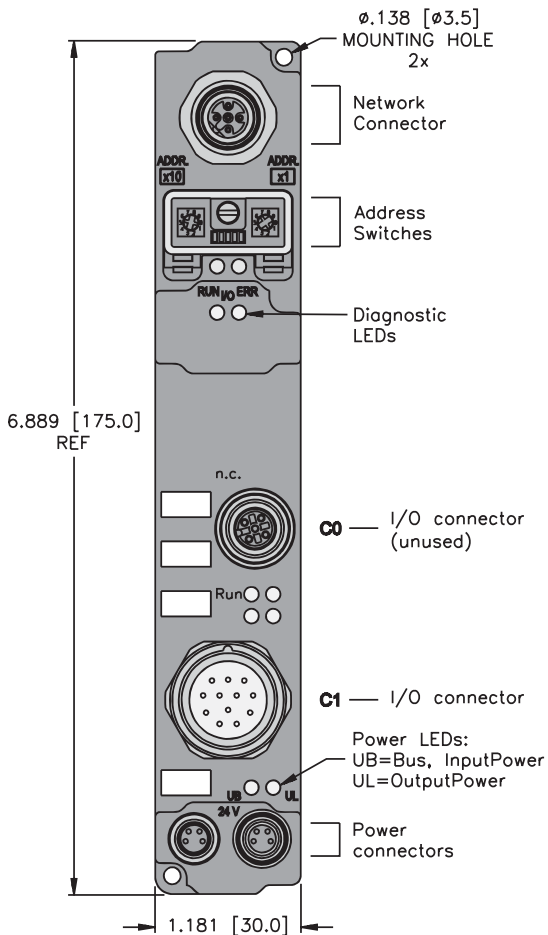
Material

- Connectors: Nickel-plated brass
- Housing: Nylon

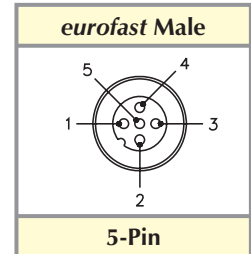
Diagnostics (Physical)

- One LED indicates an I/O fault for the entire station
- LEDs to indicate status of DeviceNet communication

SDNB-10S-0005

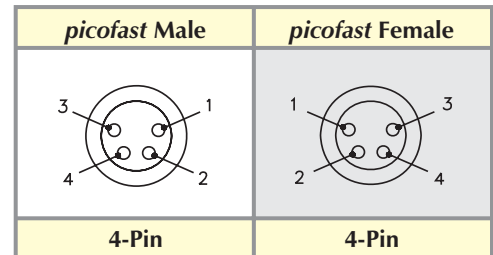


DeviceNet Pinout



- 1 = Shield
- 2 = V+
- 3 = V-
- 4 = CAN_H
- 5 = CAN_L

Aux. Power

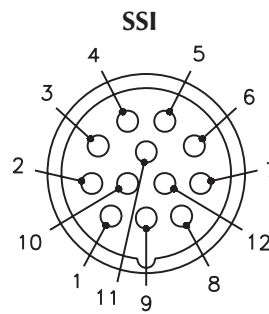


- 1 = U_B+
- 2 = U_L+
- 3 = Gnd
- 4 = Gnd

Inputs										Data
Part Number	Channel Count	Connectors	Pinout	Channels per Connector	Interface Type	Data bytes per transaction	Individual Diagnostics	Wire-Break Detection	I/O Map	
SDNB-10S-0005	1	0		1	SSI	4			1	

Input/Output Connectors

- 1 = Clock-
- 2 = Clock+
- 3 = Data+
- 4 = Data-
- 5 = NC
- 6 = NC
- 7 = NC
- 8 = NC
- 9 = NC
- 10 = NC
- 11 = V+
- 12 = Ground



Mating cordset:
CKM 12-12-*/S817

I/O Data Map 1

In	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	Data 0							
1	Data 1								
2	Data 2								
3	Data 3								
4	Device Status								