

## FDNP-L1600-TT/CS30007



This station takes in up to sixteen discrete three-wire inputs or eight discrete four-wire input points per node. There are two inputs per connector—one on pin four and one on pin two.

Inputs are monitored for short-circuits as a group. A short condition is indicated by a red MOD status LED and the IGS bit. The LED and status bit automatically reset when the fault is removed.

The node address can be set by the rotary switches located under the device cover or through software node commissioning. The communication rate is fixed at 500 kbps (Auto-Baud is disabled).

The FDNP-L1600-TT/CS30007 supports explicit messaging, polled, change of state and cyclic I/O messages. These connections are established through UCMM or predefined master/slave connection set.

Recommended Cordsets:

Bus line: RSM RKM 579-\*M

Inputs: VBRS 4.4- 2RK 4T-\*/\* or RK 4.4T-\*RS 4.4T

### FDNP-L1600-TT/CS30007

- Advanced DeviceNet™ station
- 8 x 2 discrete inputs

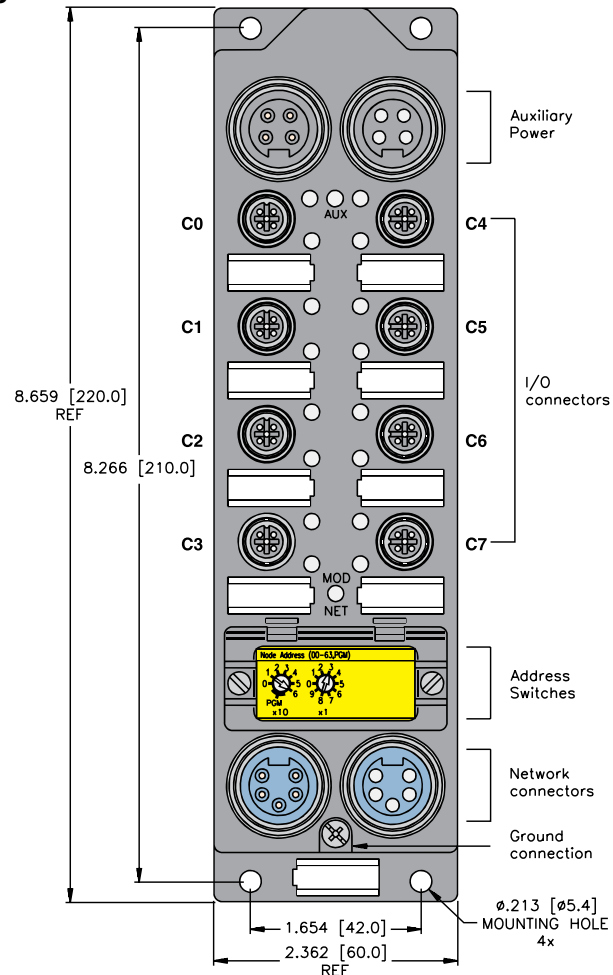
#### Applications

- For high density applications
- For use with eight 4-wire sensors or 16 3-wire sensors through input splitters

#### Features

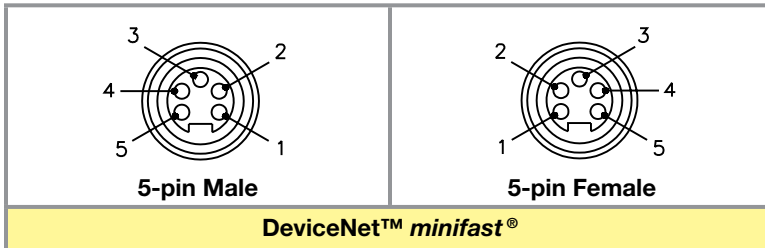
- PNP short-circuit protected inputs
- Glass filled nylon with nickel plated brass connectors
- Rotary address switches
- 500 kbps

### Dimensions

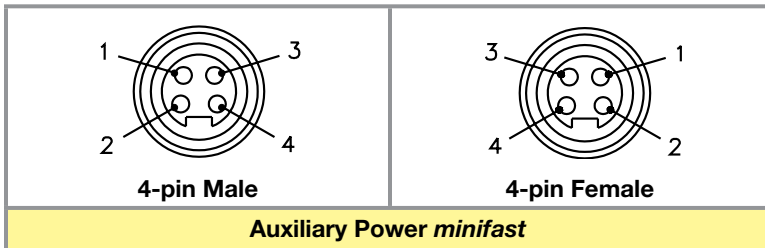


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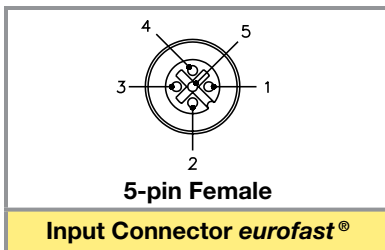
## Connectors



- 1 = Shield
- 2 = V +
- 3 = V -
- 4 = CAN\_H
- 5 = CAN\_L



- 1 = V+ - Outputs
- 2 = E+ } Inputs
- 3 = E- } Inputs
- 4 = V- - Outputs



- 1 = E +
- 2 = Input (Odd)
- 3 = E -
- 4 = Input (Even)
- 5 = PE

## I/O Data Mapping

Item Number F2033  
Product Type / Code: 7/2033

	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input Data	0	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0
	1	I-15	I-14	I-13	I-12	I-11	I-10	I-09	I-08
	2	IGS	-						

## Abbreviations

I = Input Data (0=OFF, 1=ON)

IGS = Input Group Status (0=Working, 1=Fault)

## FDNP-L1600-TT/CS30007

### Module Specifications

#### Supply Voltage

Bus Power	11-26 VDC
Internal Current Consumption	<50 mA (at 24 VDC) (from bus power)

#### Input Circuits

(16) PNP 3-wire sensors or dry contacts

Input Voltage (E+)	13-26 VDC (from auxiliary power)
Input Short-Circuit (E+)	700 mA (total, short-circuit protected)
Input Signal Current (I)	OFF <2 mA ON 3.0-3.4 mA at 24 VDC
Input Delay	2.5 ms

#### Input LED Indications

Off = Not active  
Green = Active

#### Module Status LED

Off = Power off  
Green = Operating  
Flashing Green = Autobaud  
Flashing Red = I/O Short

#### Network Status LED

Off = No connection  
Green = Established connection  
Flashing green = Ready for connection  
Flashing red = Connection time-out  
Red = Connection not possible

#### Auxiliary LED Indication

Off = No auxiliary power  
On = Power present

#### Connections

Bus line	5-pin <i>minifast</i> ® connectors
Inputs	<i>eurofast</i> ® connectors

#### Address

0-63  
Address from internal EEPROM (rotary switch must be in PGM position)

#### Housing (mm)

197 x 60 x 40 (H x W x D)

Material	Glass-filled nylon, nickel plated brass connectors
Mounting	4 through-holes, 4.5 diameter
Enclosure	NEMA 1, 3, 4, 6, 6P, 12, 14 and IEC IP 67, 68, and 69K
Operating Temperature	-40° to +70°C (-40° to 158° F)