# FDNL-S1600-T


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 and communication rate can be set by the rotary switches located under the device cover or through software node commissioning. The unit can automatically detect the network communication rate.

The FDNL-S1600-T 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

## FDNL-S1600-T

- Advanced DeviceNet™ station
- 8 x 2 discrete inputs

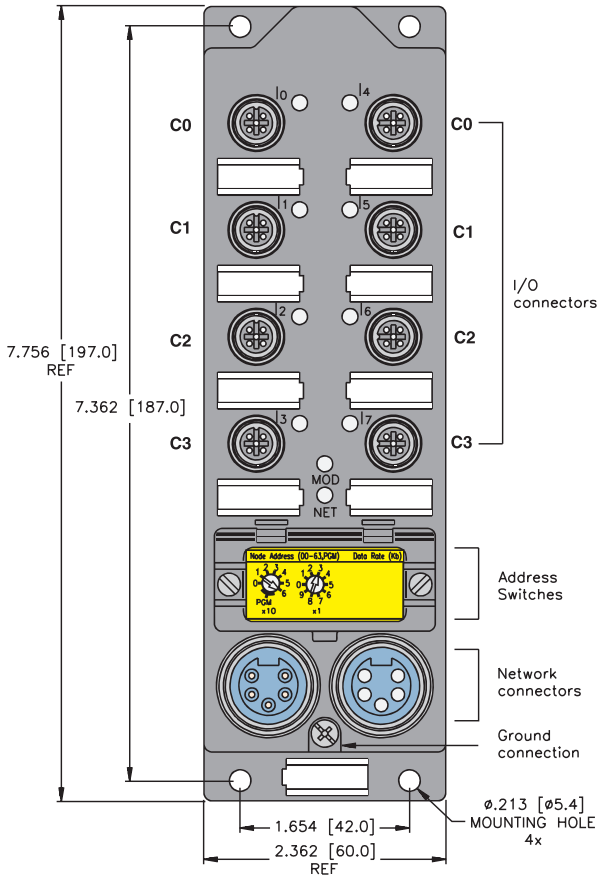
### Applications

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

### Features

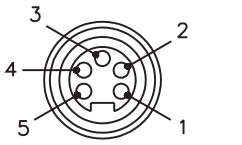
- PNP short-circuit protected inputs
- Glass filled nylon with nickel plated brass connectors
- Rotary address switches

## Dimensions

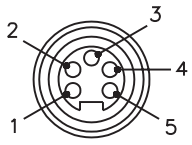


# FDNL-S1600-T

## Connectors



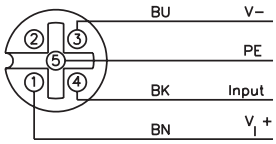

5-pin Male

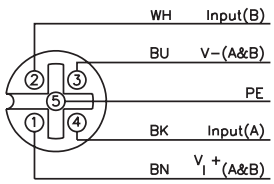



5-pin Female

DeviceNet™ *minifast*®

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




Input Connectors

## I/O Data Mapping

Item Number F0077
Product Type / Code: 7/1233

| | 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)

# FDNL-S1600-T

## Module Specifications

| | |
|---|---|
| **Supply Voltage** | |
| Bus Power | 11-26 VDC |
| Internal Current Consumption | <50 mA (at 24 VDC) plus sum of sensor currents (from bus power) |
| **Input Circuits** | (16) PNP 3-wire sensors or dry contacts |
| Input Voltage (V+) | 13-26 VDC (from bus power) |
| Input Short-Circuit (V+) | 700 mA (total, short-circuit protected) |
| Input Signal Current (I) | OFF <2 mA<br>ON 3.0-3.4 mA at 24 VDC |
| Input Delay | 2.5 ms |
| **Input LED Indications** | |
| | Off = Not active<br>Green = Active |
| **Module Status LED** | |
| | Off = Power off<br>Green = Operating<br>Flashing Green = Autobaud<br>Flashing Red = I/O Short |
| **Network Status LED** | |
| | Off = No connection<br>Green = Established connection<br>Flashing green = Ready for connection<br>Flashing red = Connection time-out<br>Red = Connection not possible |
| **Connections** | |
| Bus line | 5-pin ***minifast*** ® connectors |
| Inputs | ***eurofast*** ® connectors |
| **Address** | |
| | 0-63<br>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) |