

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

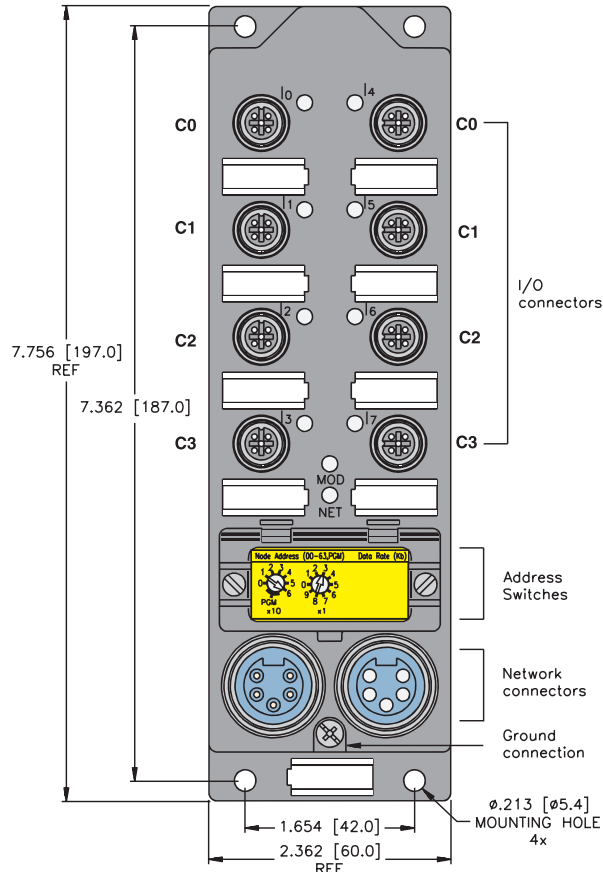
Applications

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

Features

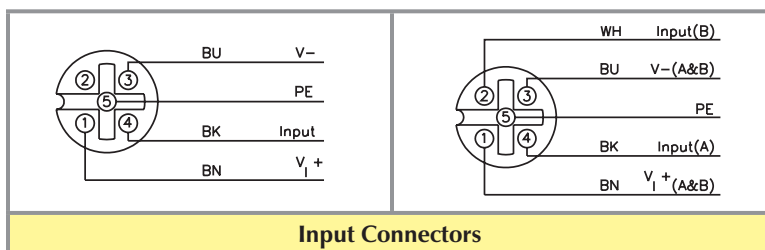
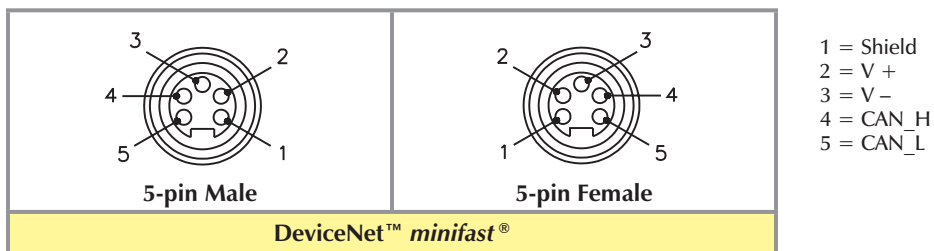
- PNP short-circuit protected inputs
- Glass filled nylon with nickel plated brass connectors
- Rotary address switches

Dimensions



FDNL-S1600-T

Connectors



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)

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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 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

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)