

This busstop® 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. Each input automatically detects a sourcing (PNP) or sinking (NPN) open-collector signal. Any combination of NPN and PNP devices may be used.

Each input produces six bits of data- two input state bits, two short-circuit status bits and two open-circuit status bits. The state bit is set when the discrete input device closes. The LED at each input point indicates its status. Each input pair is monitored for short-circuits and open circuits. Open circuit detection is enabled using a software configuration tool. The status bits 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 automatically detects the communication rate.

The FDNL-L1600-T-V supports explicit messaging, poll, change of state, and cyclic I/O messages. These connections are established through UCMM or predefined master/slave connection set.

## FDNL-L1600-T-V

- Advanced DeviceNet™ Station
- 8 x 2 discrete inputs

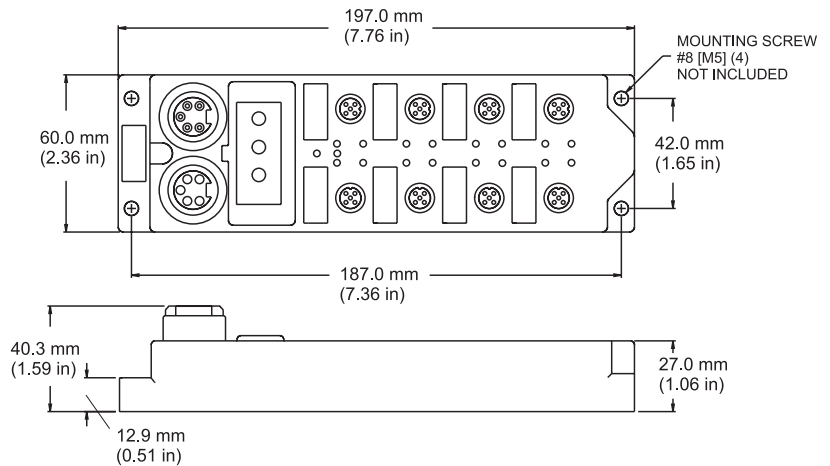
### Applications

- For high density applications
- For use with eight four-wire sensors or sixteen three-wire sensors through input splitters

### Features

- PNP/NPN short-circuit protected inputs with open-circuit protection
- Glass filled nylon housing with stainless steel connectors
- Rotary Address Switches

## Dimensions



## Connectors

<b>DeviceNet</b>	<b>Style: 5-Pin minifast®</b> <b>Cordset: Bus Line use RSM RKM 579- *M</b> <b>Tee : Bus Line use RSM 2RKM 57</b>	1 = Shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L	<p>Male Female</p>	<b>Through Bus</b>		
<b>Type "2L"</b>	<b>Cordset: Sensor with 2 Signals use RK 4.4T-*RS 4.4T</b> <b>Splitter: Splitter and 2 Sensors use VBRS 4.5-2RK 4T-*S818</b>	1 = V +(A) 2 = Input B 3 = V - 4 = Input A 5 = V +(B)			<b>Sensor with 2 Signals</b>	<b>Splitter and 2 Sensors</b>

# Module Specifications

# FDNL-L1600-T 16 NPN/PNP Input, Per Point Diagnostic

## Supply Voltage

Bus power	11-26 VDC
Internal current consumption	140 mA plus sum of sensor currents (from bus power)

## Input Circuits

	(16) PNP or NPN 3-wire sensors or dry contacts
Input voltage (V+)	11-26 VDC (from bus power)
Open circuit current (V+)	< 1mA
Sensor current (V+)	<80 mA per input, short-circuit protected
Input signal current (Input)	OFF <2mA ON 3.0-3.4 mA at 24VDC
Maximum switching frequency	100 Hz

## I/O LED Indications

Amber=Open-circuit  
Off=Off  
Green=On  
Red=Short-circuit

## Module Status LED

Green: working properly  
Flashing green: detecting autobaud rate  
Flashing red: I/O short-circuit

## Network Status LED

Green: established connection  
Flashing Green: ready for connection  
Flashing red: connection time-out  
Red: connection not possible

## Adjustments

	via Rotary Switch
Address	0-63
Communication Rate	Auto/125k/250k/500k

## Housing

Material	glass filled nylon with stainless steel connectors
Enclosure	NEMA 1,3,4,12,13 and IEC IP 67
Operating temperature	-25° to 70°C (-13° to 158°F)

## I/O Data Mapping

	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-9	I-8
	2	ISS-7	ISS-6	ISS-5	ISS-4	ISS-3	ISS-2	ISS-1	ISS-0
	3	ISS-15	ISS-14	ISS-13	ISS-12	ISS-11	ISS-10	ISS-9	ISS-8
	4	IOS-7	IOS-6	IOS-5	IOS-4	IOS-3	IOS-2	IOS-1	IOS-0
	5	IOS-15	IOS-14	IOS-13	IOS-12	IOS-11	IOS-10	IOS-9	IOS-8

## Abbreviations

I = Input Data (0=OFF, 1=ON)      O = Output Data (0=OFF, 1=ON)  
 ISS = Input Short Status (0=Working, 1=Fault)      OS = Output Status (0=Working, 1=Fault)  
 IOS = Input Open Status (0=Working, 1=Fault)      OGS = Output Group Status (0=Working, 1=Fault)  
 IGS = Input Group Status (0=Working, 1=Fault)      APS = Aux Power Status (0=OFF, 1=ON)