FDNP-S1204H-TT-0149

This station provides connections for up to twelve discrete inputs and four high current discrete outputs. Inputs are powered from the Bus line, while outputs are powered from the Auxiliary power line. Four connectors on the left side and two bottom connectors on the right side are dedicated to inputs. Two upper connectors on the right side of the station are dedicated to outputs.

All inputs are short-circuit protected by a single protection circuit. If any input is shorted, the protection circuit cuts off power to all inputs and input group status is set. Module LED will flash red. Recovery to normal operation is done instantly upon removal of a short condition.

Each output is individually short-circuit protected. A short condition on one output does not affect operation of other outputs. Output short-circuits are reported by setting the output group status bit and flashing module LED. The output automatically returns to normal operation once the short is removed.

The node address is set using rotary switches located under the device cover or through software node commissioning. This unit automatically detects the communication rate.

The FDNP-S1204H-TT-0149 supports explicit messaging, poll, change of state, and cyclic I/O messages. These connections are established through UCMM or predefined master/slave connection set.

FDNP-S1204H-TT-0149

- Advanced DeviceNet™ station
- 6 x 2 discrete inputs and 2 x 2 discrete outputs

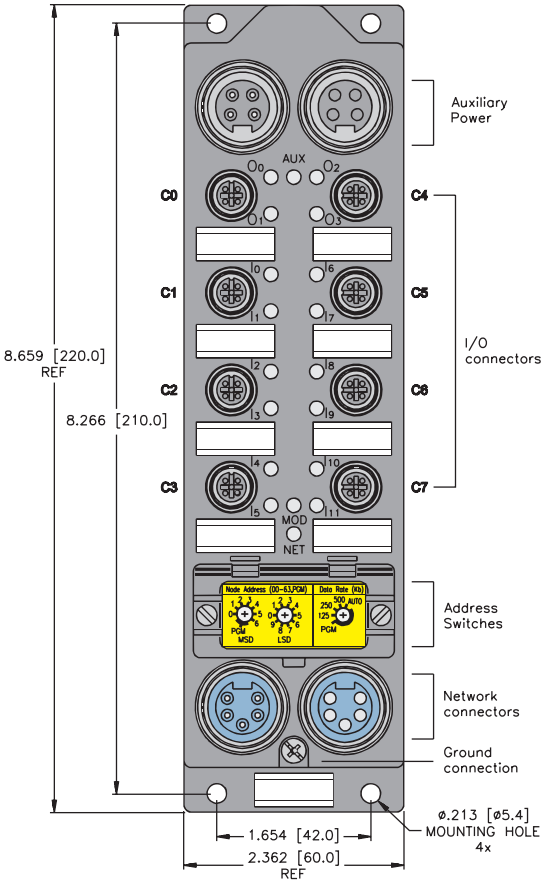
Applications

- For wet or dry environments
- For use with twelve 3-wire or six 4-wire proximity and photoelectric sensors, and four discrete actuators

Features

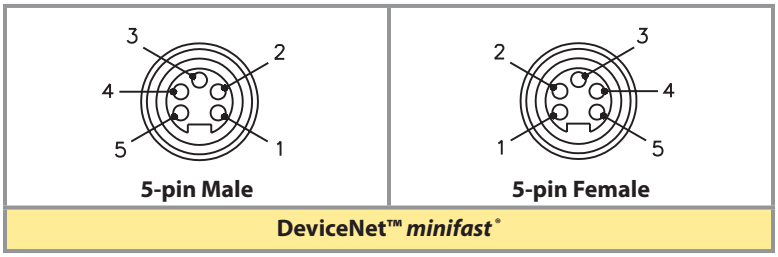
- PNP short-circuit protected inputs
- 1.4 amp short-circuit protected outputs
- Glass filled nylon with nickel plated brass connectors
- Rotary address switches

Dimensions



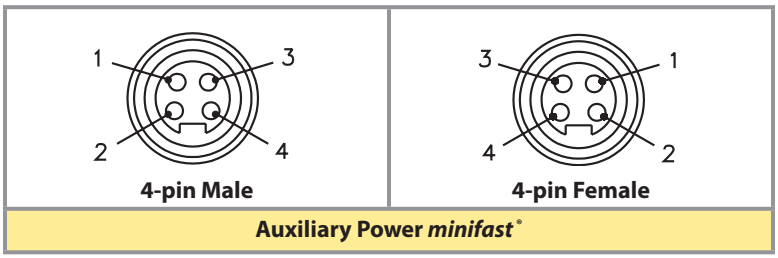
FDNP-S1204H-TT-0149

Connectors



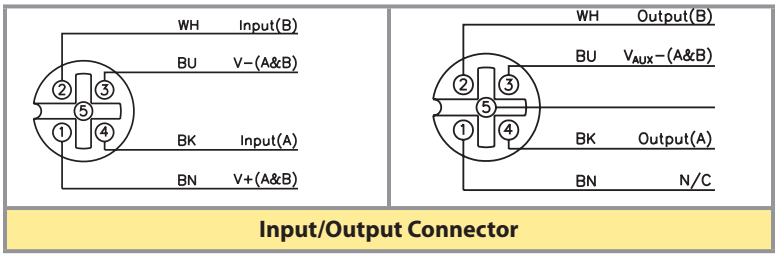
DeviceNet™ *minifast*®

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



Auxiliary Power *minifast*®

1 = V_{AUX} +
2 = Pass thru
3 = Pass thru
4 = V_{AUX} -



Input/Output Connector

I/O Data Mapping

Item Number F0149
Product Type / Code: 7/2385

	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	IGS	OGS	-	-	I-11-	I-10-	I-9	I-8
Output Data	**Byte**	**Bit 7**	**Bit 6**	**Bit 5**	**Bit 4**	**Bit 3**	**Bit 2**	**Bit 1**	**Bit 0**
	0	-	-	-	-	O-3	O-2	O-1	O-0

Abbreviations

I = Input Data (0=OFF, 1=ON)
IGS = Input Group Status (0=Working, 1=Fault)
O = OutputData (0=OFF, 1=ON)
OGS = Output Group Status (0=Working, 1=Fault)

Module Specifications

Supply Voltage

Bus Power	11-26 VDC, powers communication
Internal Current Consumption	<75 mA (from bus power)
Auxiliary Power	18-26 VDC, optically isolated, powers outputs

FDNP-S1204H-TT-0149

Input Circuits	(12) PNP 3-wire sensors or dry contacts
Input Voltage (V+)	13-26 VDC (from bus power)
Input Short-Circuit (V+)	700 mA - 2.0 A (total)
Input Signal Current	OFF <2 mA
	ON 3.0-3.4 mA at 24 VDC
Input Delay	2.5 ms
Output Circuits	(4) DC actuators
Output Voltage	18-26 VDC (from auxiliary power)
Output Load Current	1.4 A per output (from auxiliary power)
Maximum Switching Frequency	100 Hz
I/O LED Indications	
	Off = Off
	Green = On
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
Address	via Rotary Switch
	0-63
Housing	220 x 60 x 40 (H x W x D)
Material	Glass-filled nylon, nickel plated brass connectors
Enclosure	NEMA 1, 3, 4, 12, 13 and IEC IP 67
Operating Temperature	-40° to +70°C (-40° to 158° F)