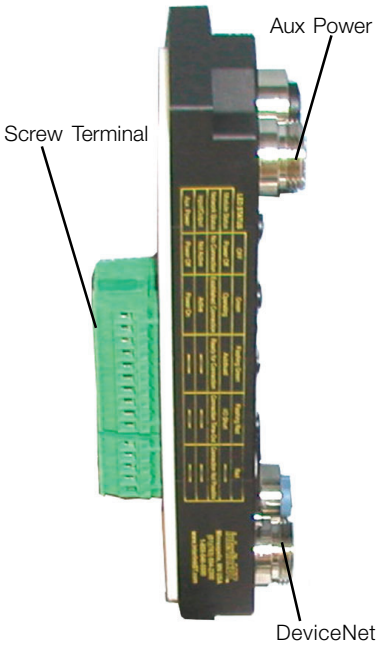


The FDNP-S0808G-ST *busstop*® station is designed to be mounted directly on motor control enclosures. Once mounted, the I/O, power and DeviceNet™ signals are available both inside the enclosure and outside the enclosure. Inside the enclosure the signals are accessed via removable screw terminals on the back of the station. Outside the enclosure the signals are accessed via *eurofast*® or *minifast*® connectors on the front of the station.

Up to eight dry contact inputs and eight contactor outputs in the enclosure can be connected via the screw terminals. If an I/O point is not needed inside the enclosure, it can be connected to three-wire PNP sensors and actuators via the eight *eurofast*® ports on the front of the station. This unprecedented flexibility allows users to have a total of eight inputs and eight outputs, some inside the enclosure and some outside. The rear screw terminals also provide a clean way to get power and DeviceNet signals inside the cabinet.

All LED's are on the front of the station. The signal status of the inputs/outputs is indicated by a green LED. The ON-LINE/OFF-LINE status of the station is signaled by a green/red "Bus" LED.

The address of the station is set via two rotary switches located under a protective cover.

The robust station is epoxy-encapsulated and equipped throughout with metal connectors. Connection DeviceNet is accomplished with 7/8" *minifast*® connectors. Power is connected via a 4-pole 7/8" *minifast*® connector. Power and DeviceNet signals are also available inside the enclosure via the screw terminals on the back of the station.

EDS files for this station are available at www.interlinkbt.com

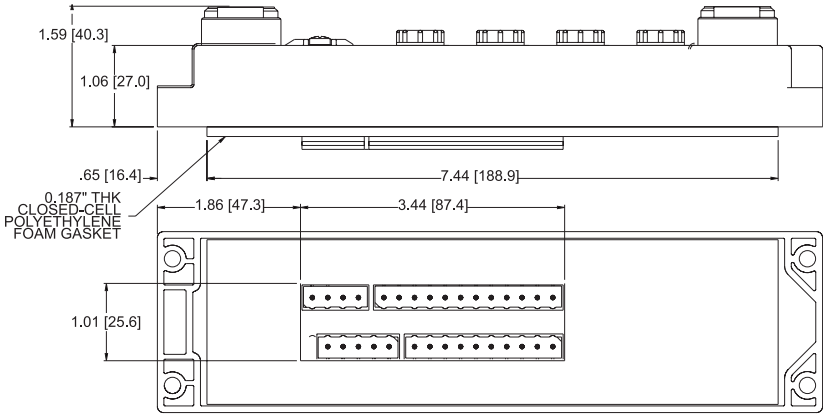
FDNP-S0808G-ST

- Inside/Outside enclosure DeviceNet™ station
- Eight Inputs/Eight Outputs

Applications
- For small motor starter enclosures
- Ideal anywhere small enclosure I/O counts are needed

Features
- Provides I/O, Power and DeviceNet connections inside the enclosure
- Sensors can be connected directly to the front of the station
- Removable screw terminals inside the enclosure screw terminals inside the enclosure

Dimensions

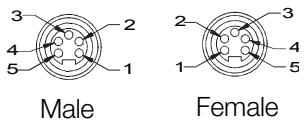


Connectors

DeviceNet

Style: 5-Pin *minifast*®
Cordset: Bus Line use RSM RKM 579-*M
Tee: Bus Line use RSM 2RKM 57

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

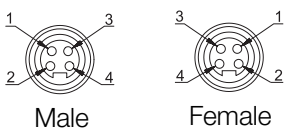


Through Bus

Type "T"

Style: 4-Pin *minifast*®
Cordset: Aux Power use
RSM RKM 46- *M
Tee : Aux Power use RSM 2RKM 40

1= Aux +
2= E+
3= E-
4= Aux-



Auxiliary Power

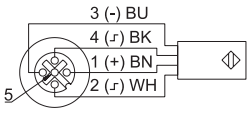
Connectors

Type "2S"

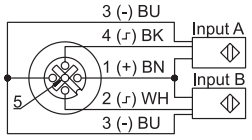
Style: 5-Pin *eurofast*®

Cordset: Sensor Sensor use
RK 4.4T-*-RS 4.4T
Splitter: Splitter and 2 Sensors use
VBRS 4.4-2RK 4T-*/*

1 = V_{ISC} +
2 = Input B
3 = GND
4 = Input A
5 = PE



Single Sensor



Splitter and 2 Sensors

Type "2G"

Style: 5-Pin *eurofast*®

Cordset: Dual Output use RK 4.4T-*-RS 4.4T
Splitter: Dual Output or Dual Valve use VB2-RS 4.5T-*/2VAS
22-A528-*/*("A" Style valve plug, other's available)
Field Wireable: Dual Output use BS 8141-0

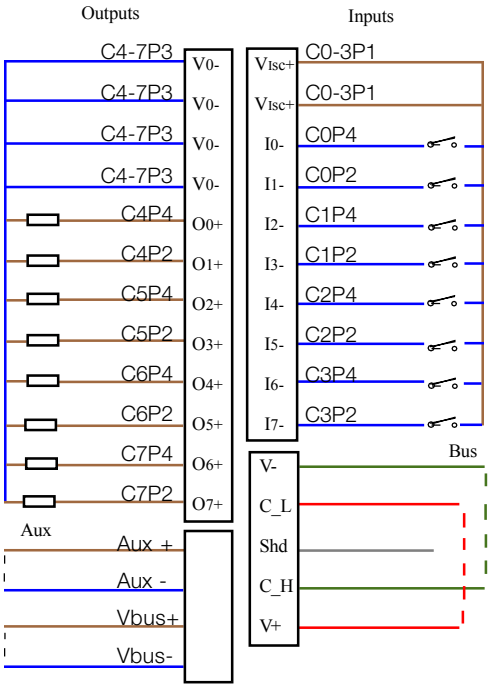
1 = N/C
2 = Output B (odd numbers)
3 = GND
4 = Output A (even numbers)
5 = PE

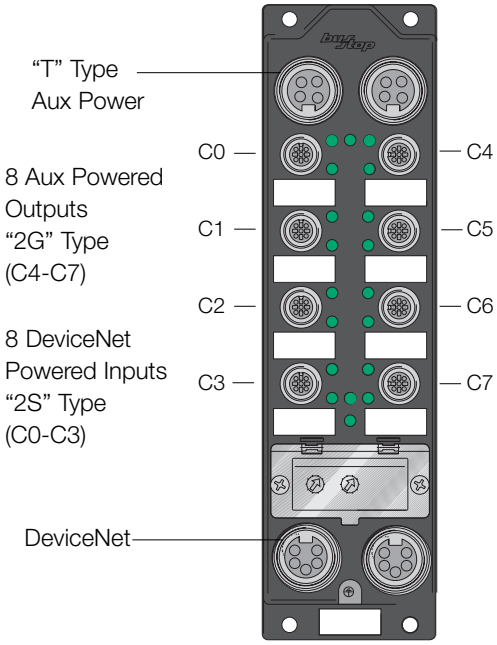
Dual Output

I/O Data Mapping

	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Input Data	0	C3P2 I-7	C3P4 I-6	C2P2 I-5	C2P4 I-4	C1P2 I-3	C1P4 I-2	C0P2 I-1	C0P4 I-0
	1	IGS	OGS	-	-	-	-	-	-
Output Data	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	C7P2 O-7	C7P4 O-6	C6P2 O-5	C6P4 O-4	C5P2 O-3	C5P4 O-2	C4P2 O-1	C4P4 O-0

Wiring Diagram





Abbreviations

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

Module Specifications

FDNP-S0808G-ST
Eight PNP Input and Eight 0.5A Output, Group Diagnostic

Supply Voltage	
Bus power	11-26 VDC
Internal current consumption	≤75mA (from bus power)
Auxiliary power	18-26 VDC
Input Circuits	(8) PNP 3-wire sensors or dry contacts
Input voltage (V+)	13-26 VDC (from bus power)
Input short-circuit (V+)	700mA-2.0A (total)
Input signal current (Input)	OFF <2mA
	ON 3.0-3.4 mA at 24VDC
Input delay	2.5 ms
Output Circuits	(8) DC actuators or contactors
Output voltage	18-26 VDC (from auxiliary power)
Output load current	0.5 A per output (from auxiliary power)
Open circuit current	< 1 mA per output
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
Adjustments	via Rotary Switch
Address	0-63
Housing	
Material	glass filled nylon with nickel plated brass connectors
Mounting	via 4 through holes, Ø 5.4 mm
Enclosure (IEC 60529/EN 60529)	NEMA 1,3,4,12,13 and IEC IP 67
Operating temperature	-40° to 70°C (-40° to 158°F)
Compliances	CSA, CE, ODVA

Knock Out Dimensions