FieldLink™

process networking solutions

FieldBlock Nonincendive™ Enclosure (FN) with:

DeviceNet *(1-6) Switched Power Protected Drop Connector (FNS06____)*


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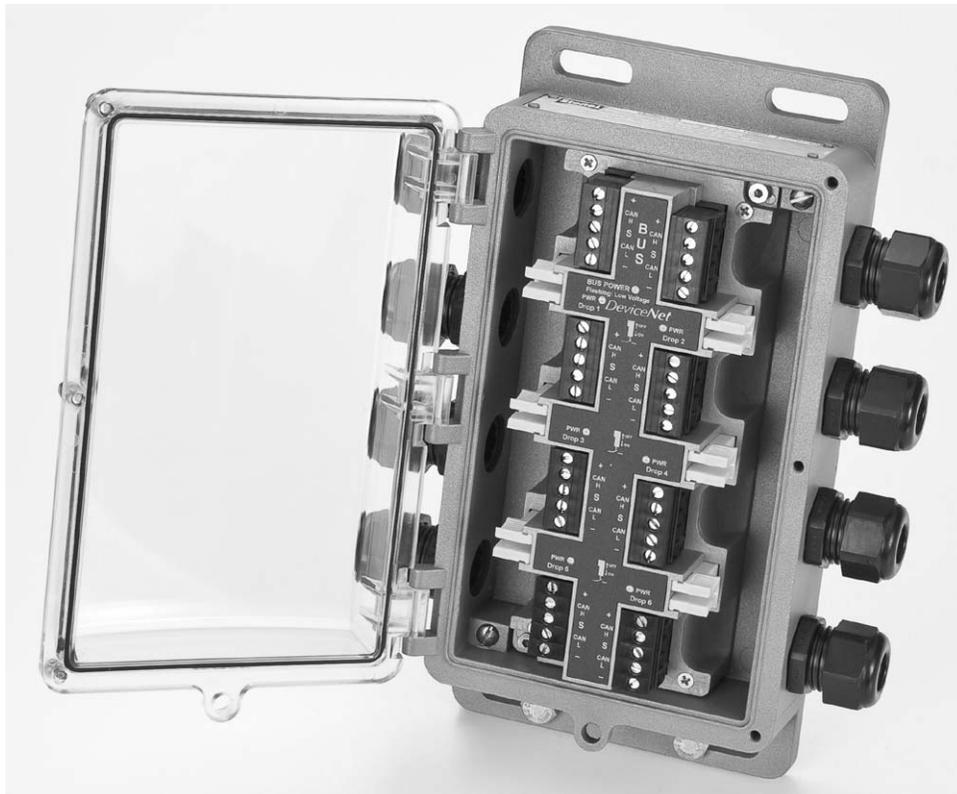
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	Function	Enclosure	Entry Options	Brand	Options
FN	**S06** Switched Power Protected Drops, DeviceNet (Bus In/Out and (6) Drops)	**C** North American (NEC/CEC) **D** International (IEC)	**P01 -** (8) 1/2" NPT Conduit Entries **P02 -** (8) M20 Conduit Entries **G01 -** (8) Small Cable Glands **G02 -** (2) Large Cable Glands (6) Small Cable Glands **N02 -** (8) 5-Pin Mini Connectors (1-Male; 7-Female) **M02 -** (8) 5-Pin Micro Connectors (1-Male; 7-Female) **C01 -** (2) 1/2" NPT Conduit Entries; (6) Cable Glands **C03 -** (2) 1/2" NPT Conduit Entries; (6) 5-Pin Mini Connectors **C05 -** (2) 1/2" NPT Conduit Entries; (6) 5-Pin Micro Connectors	**A** StoneL **M** Metso **N** Neles	**_******* (Special)

General Specifications

Materials of Construction

Housing	Epoxy Coated Anodized Aluminum
Cover	Polycarbonate
Elastomer Seals	Silicone
Fasteners	Stainless Steel

Operating Life	Unlimited
Temperature Range	-40° to +80° C (-40° to 176° F)
Enclosure Protection	NEMA 4, 4X & 6; IP67
Warranty	Two Years

Dimensions (in inches)

1/2" NPT (8) or M20 (8)

0.81 · 1.88 · 1.62 · 1.62 · 1.62 · 2.63

6.6 · 3.375 · 2.0 · 8.8 · 8.0 · 0.328 · 4.5

2.07 · 1.62 · 1.62 · 1.62 · 0.31
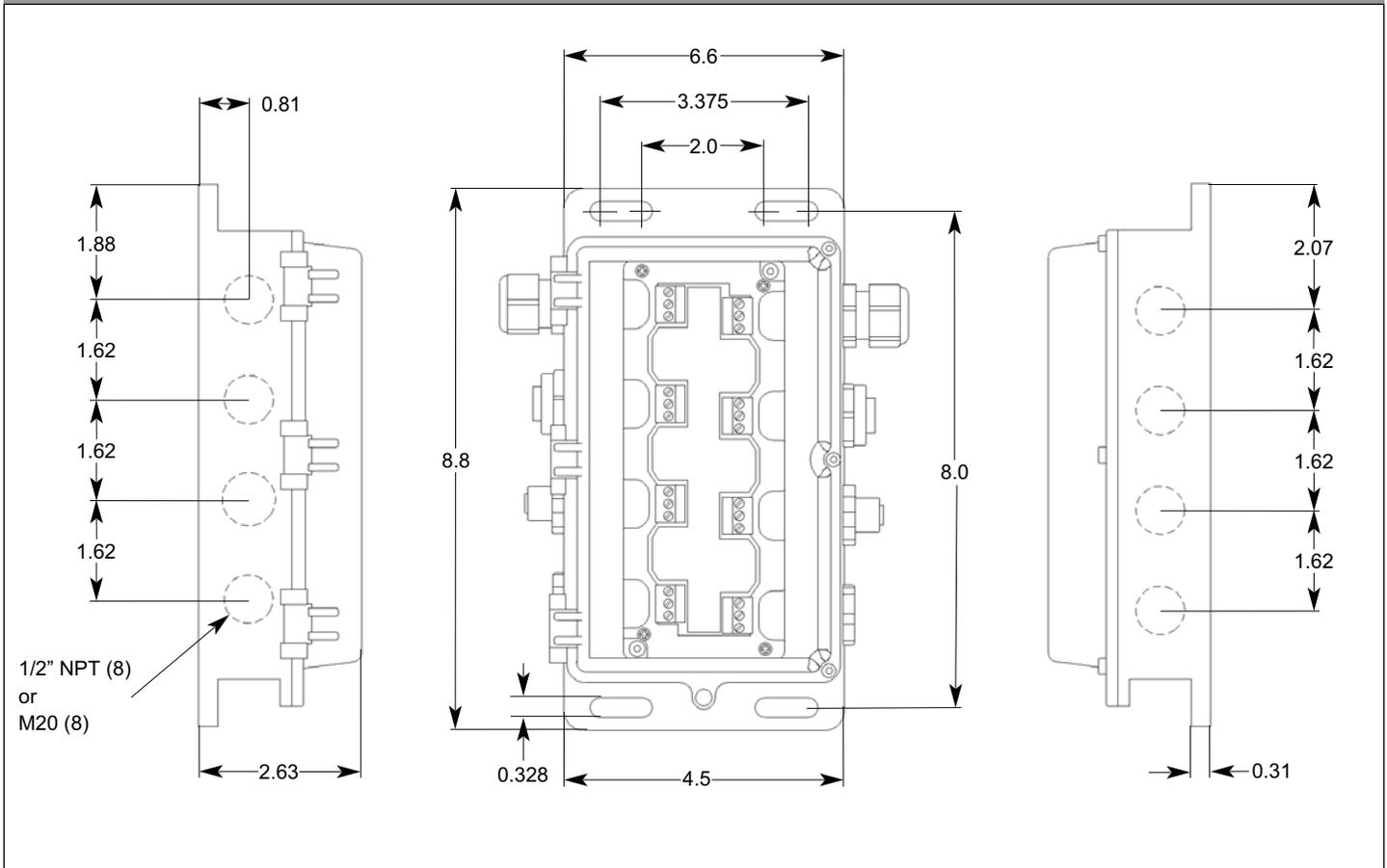
DeviceNet Switched Power Protected Drop Connector

Bus in, Bus out, and (6) Switched Power Protected Drops for DeviceNet networks.

Voltage Range	30 VDC max	Current Consumption	10mA max
Operating Voltage	DeviceNet Voltage	Voltage Drop (Trunk)	Negligible
Current Rating	8 Amps (Bus)	Voltage Drop (Drop)	1.0 VDC max
Break Current	>240mA (on V+)*	LED Displays:	BUS POWER, Green LED (Flashing = low voltage)
Holding Current	28mA		PWR, Green LED, Drop Energized
Reset Current	<28mA		

*Short circuit protection only on V+. Communication wires are passive

OFF

ON
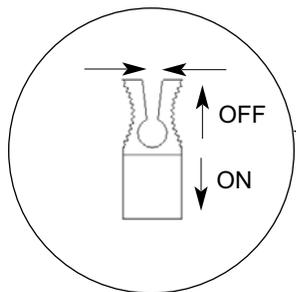
Drop Disconnect Switch Operation

1. To energize a selected drop, compress "ears" of yellow disconnect switch with finger tips and push down. Green "PWR" LED of selected drop will light.

2. To de-energize a selected drop, compress "ears" of yellow disconnect switch with finger tips and pull up. Green "PWR" LED of selected drop will extinguish. Drop is now isolated from the network.

FNS06 with Receptacles Pin Out Guide
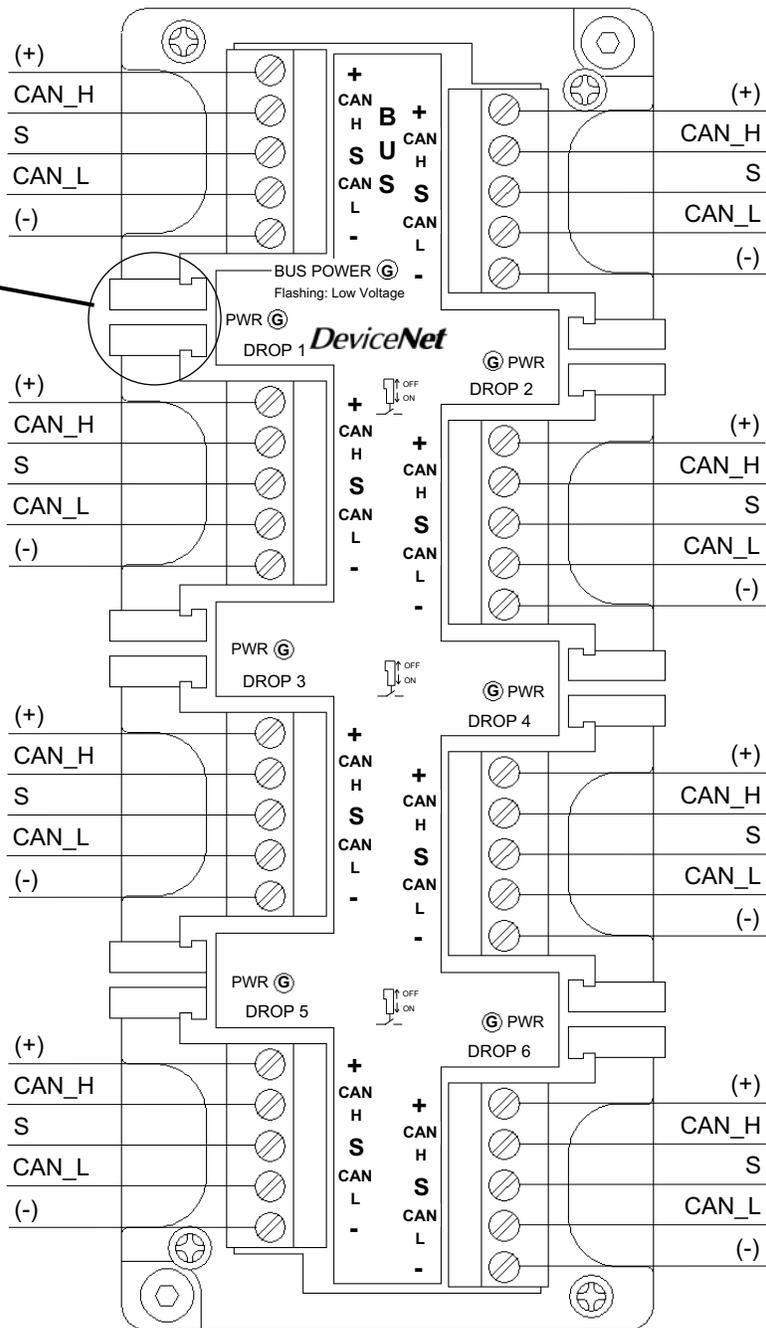
		FNS06***			
		BUS IN (BI) & BUS OUT (BO)			
PIN	WIRE COLOR	FNS06_N02_	FNS06_M02_	FNS06_C03_	FNS06_C05_
1	BROWN	Shield	Shield	N/A	N/A
2	WHITE	V +	V +	N/A	N/A
3	BLUE	V -	V -	N/A	N/A
4	BLACK	CAN_H	CAN_H	N/A	N/A
5	GRAY	CAN_L	CAN_L	N/A	N/A
		DROPS (D1 - D6)			
1	BROWN	Shield	Shield	Shield	Shield
2	WHITE	V +	V +	V +	V +
3	BLUE	V -	V -	V -	V -
4	BLACK	CAN_H	CAN_H	CAN_H	CAN_H
5	GRAY	CAN_L	CAN_L	CAN_L	CAN_L

MINI RECEPTACLES

MINI-CONNECTOR
MALE (PINS)
BUS IN (BI)

MINI-CONNECTOR
FEMALE (SOCKETS)
BUS OUT (BO)

MINI-CONNECTOR
FEMALE (SOCKETS)
DROP (D1-D6)

MICRO RECEPTACLES (M12)

MICRO-CONNECTOR
MALE (PINS)
BUS IN (BI)

MICRO-CONNECTOR
FEMALE (SOCKETS)
BUS OUT (BO)

MICRO-CONNECTOR
FEMALE (SOCKETS)
DROP (D1-D6)
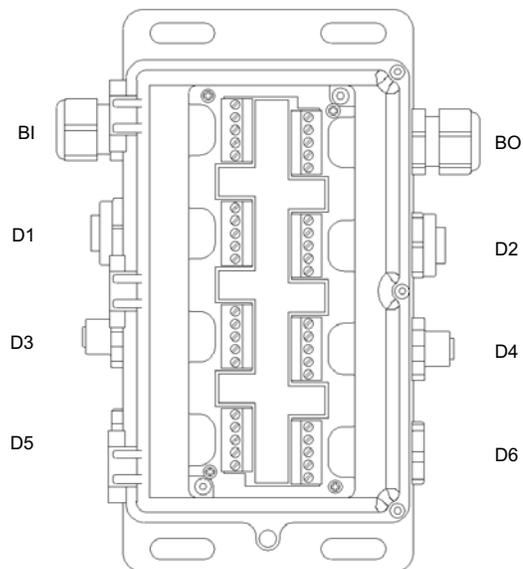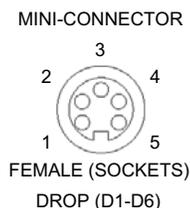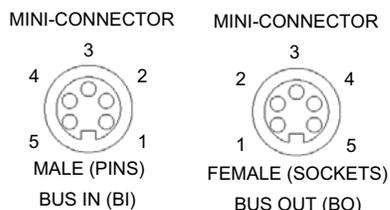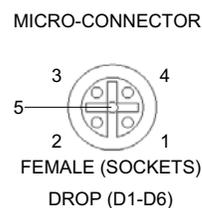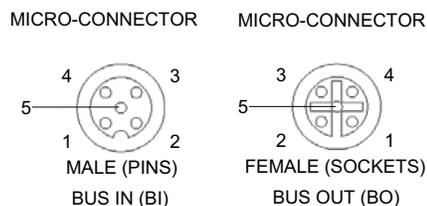
FNS06 Mounting Instructions

Mounting The FieldBlock Enclosure

1. Locate the position where the FieldBlock enclosure will be mounted. Ensure that hinged cover of the unit will have sufficient clearance to be opened.
2. Attach the FieldBlock enclosure to a wall or other stationary flat surface using the mounting holes provided.

Attaching Cables and Connectors

1. Cable glands and connectors are provided for convenient wiring. Ensure all connections are securely tightened.
2. Follow all applicable NEC codes and other regulations.

Installing & Removing Cover

1. To insure NEMA 4, 4X and 6 ratings are maintained the cover **must be** completely closed and the gasket sealed to keep out water.
2. Tighten cover screws to 05-30 inch lbs.

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