Pub #105293revA

FieldLink™ process networking solutions

FieldBlock Nonincendive™ Enclosure (FN) with:

Advanced I/O Module with AS-Interface Protocol

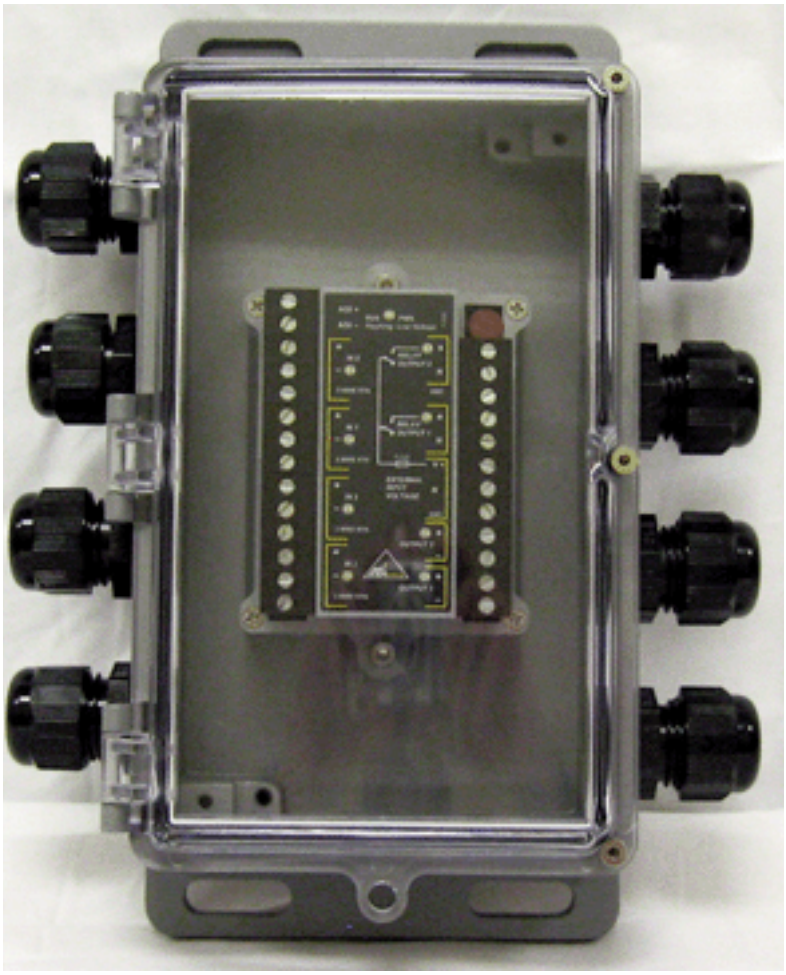

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Table of Contents

FN ASI I/O Model Selector (Example: FNM96CP01A)

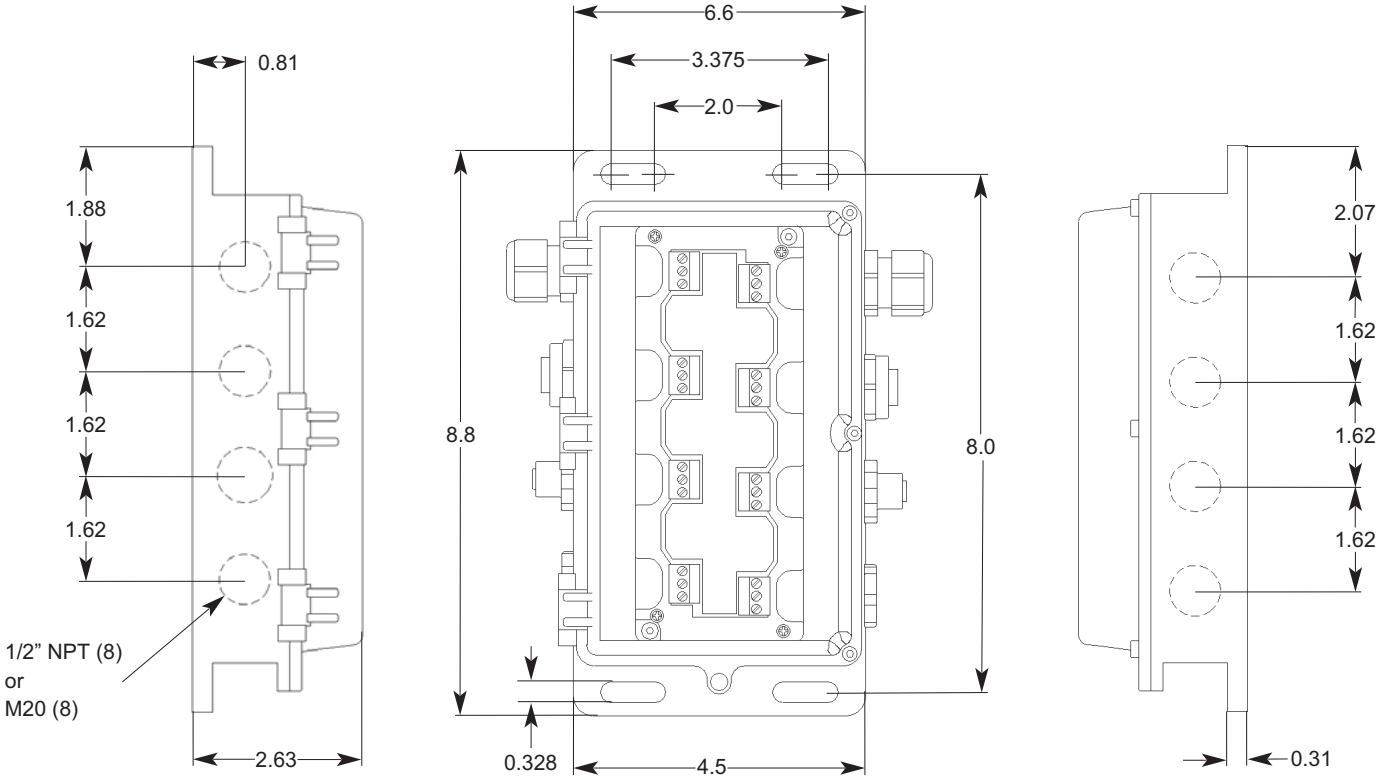
	Function	Enclosure	Entry Options	Brand	Options
FN	**Basic I/O Modules** **M96** AS-Interface; 4-DI/4-DO **M97** AS-Interface; 4-DI/3-DO (extended addressing) **Relay I/O Modules (Independent Relay Outputs)** **R96** AS-Interface; 4-DI/2-DO/2-Relay DO **R97** AS-Interface; 4-DI/1-DO/2-Relay DO (extended addressing) **Relay I/O Modules (Interlocking Relay Outputs)** **I96** AS-Interface; 4-DI/2-DO/2-Relay DO **I97** AS-Interface; 4-DI/1-DO/2-Relay DO (extended addressing)	**C** North American (NEC/CEC) **D** International (IEC)	**P01 -** (8) 1/2" NPT Conduit Entries **P02 -** (8) M20 Conduit Entries **G01 -** (8) Cable Glands **N01 -** (8) 4-Pin Mini Connectors (1-Male; 7-Female) **M01 -** (8) 4-Pin Micro Connectors (1-Male; 7-Female) **C01 -** (2) 1/2" NPT Conduit Entries; (6) Cable Glands **C02 -** (2) 1/2" NPT Conduit Entries; (6) 4-Pin Mini Connectors **C04 -** (2) 1/2" NPT Conduit Entries; (6) 4-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

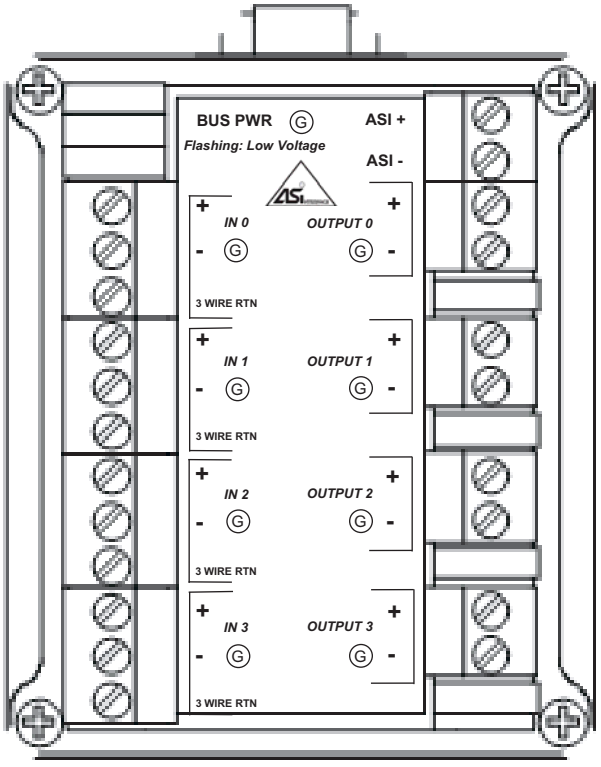
Operating Life	Unlimited
Temperature Range	-40° to +80° C (-40° to 176° F)
Enclosure Protection	NEMA 4, 4X & 6; IP67
Warranty	Two Years

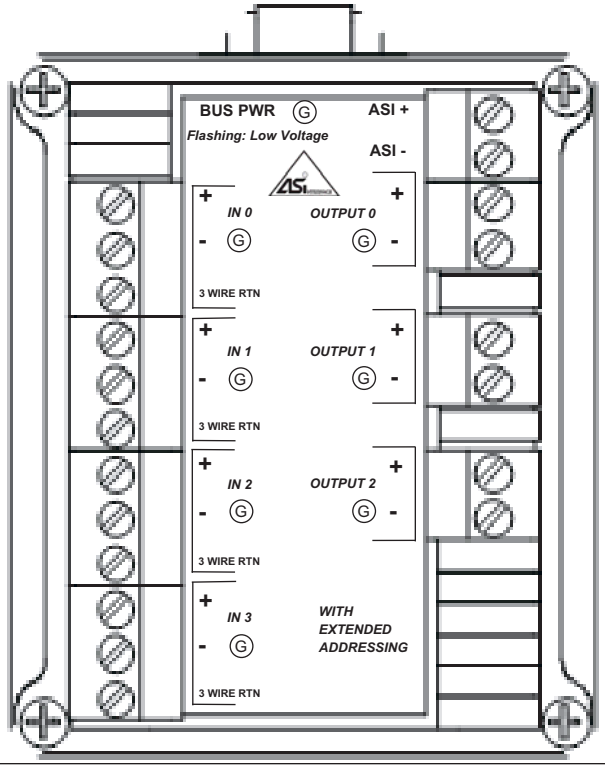
Dimensions (inches)



IO Module Specifications and Ratings

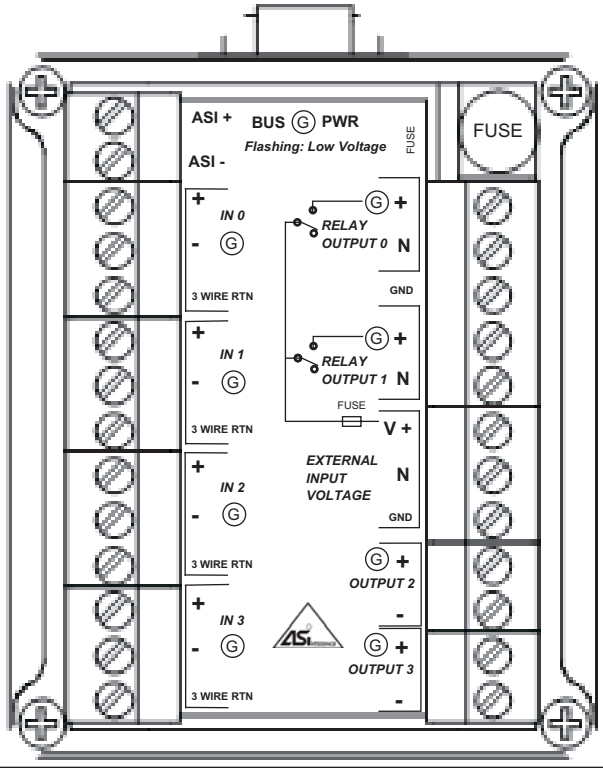
MODEL# FNM96____		MODEL# FNM97____	
AS-Interface Type	v3.0 (Standard Addressing)	**AS-Interface Type**	v3.0 (Extended Addressing)
Operating Voltage	AS-Interface voltage	**Operating Voltage**	AS-Interface voltage
Current Usage:		**Current Usage**:	
No I/O enabled	16mA	No I/O enabled	16mA
Discrete Inputs	3mA (each)	Discrete Inputs	3mA (each)
Discrete Outputs	167mA (4 Watts total power available)	Discrete Outputs	167mA (4 Watts total power available)
Over Current State	220mA	Over Current State	220mA
LED Indication:		**LED Indication**:	
Bus Power (1)	Green (Steady = OK; Flashing = Voltage <26vdc)	Bus Power (1)	Green (Steady = OK; Flashing = Voltage <26vdc)
Discrete Input State	(4) Green (Lit = Switch Made)	Discrete Input State	(4) Green (Lit = Switch Made)
Discrete Output State	(4) Green (Lit = Output On)	Discrete Output State	(3) Green (Lit = Output On)
Discrete Inputs (4):	Use with gold contact mechanical, low power reed, or 2 wire and 3 wire PNP solid state sensors	**Discrete Inputs (4)**:	Use with gold contact mechanical, low power reed, or 2 wire and 3 wire PNP solid state sensors
Voltage	28VDC	Voltage	28VDC
Max Current Available	2.5mA (per Discrete Input)	Max Current Available	2.5mA (per Discrete Input)
Max Leakage Current Tolerance	<0.30mA	Max Leakage Current Tolerance	<0.30mA
Discrete Outputs (4):		**Discrete Outputs (3)**:	
(Bus Powered)	24VDC (4 Watts total power available)	(Bus Powered)	24VDC (4 Watts total power available)
AS-Interface Profile	ID Code = F; I/O Code = 7 (4 DI/4 DO)	**AS-Interface Profile**	ID Code = A; I/O Code = 7 (4 DI/3 DO)
Default Address	00	**Default Address**	00
Bit Assignment	Input Data / Output Data	**Bit Assignment**	Input Data / Output Data
	DI0 = Input 0 / DO0 = Output 0		DI0 = Input 0 / DO0 = Output 0
	DI1 = Input 1 / DO1 = Output 1		DI1 = Input 1 / DO1 = Output 1
	DI2 = Input 2 / DO2 = Output 2		DI2 = Input 2 / DO2 = Output 2
	DI3 = Input 3 / DO3 = Output 3		DI3 = Input 3 / DO3 = Not Used
Peripheral Fault Bit	Set = Unit current draw exceeding 220mA	**Peripheral Fault Bit**	Set = Unit current draw exceeding 220mA

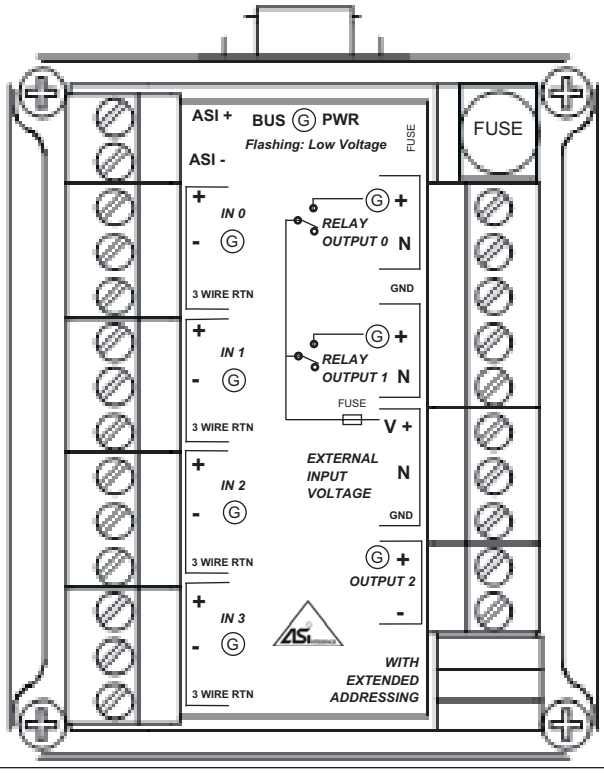




IO Module Specifications and Ratings

MODEL# FNR96____		MODEL# FNR97____	
AS-Interface Type	v3.0 (Standard Addressing)	**AS-Interface Type**	v3.0 (Extended Addressing)
Operating Voltage	AS-Interface voltage	**Operating Voltage**	AS-Interface voltage
Current Usage:		**Current Usage**:	
No I/O enabled	16mA	No I/O enabled	16mA
Discrete Inputs	3mA (each)	Discrete Inputs	3mA (each)
Discrete Outputs	167mA (4 Watts total power available)	Discrete Outputs	167mA (4 Watts total power available)
Relay Outputs	21mA (per relay coil)	Relay Outputs	21mA (per relay coil)
Over Current State	220mA	Over Current State	220mA
LED Indication:		**LED Indication**:	
Bus Power (1)	Green (Steady = OK; Flashing = Voltage <26vdc)	Bus Power (1)	Green (Steady = OK; Flashing = Voltage <26vdc)
Discrete Input State	(4) Green (Lit = Switch Made)	Discrete Input State	(4) Green (Lit = Switch Made)
Discrete Output State	(4) Green (Lit = Output On)	Discrete Output State	(3) Green (Lit = Output On)
Discrete Inputs (4):	Use with gold contact mechanical, low power reed, or 2 wire and 3 wire PNP solid state sensors	**Discrete Inputs (4)**:	Use with gold contact mechanical, low power reed, or 2 wire and 3 wire PNP solid state sensors
Voltage	28VDC	Voltage	28VDC
Max Current Available	2.5mA (per Discrete Input)	Max Current Available	2.5mA (per Discrete Input)
Max Leakage Current Tolerance	<0.30mA	Max Leakage Current Tolerance	<0.30mA
Discrete Outputs (2):		**Discrete Outputs (1)**:	
(Bus Powered)	24VDC (4 Watts total power available)	(Bus Powered)	24VDC (4 Watts total power available)
Relay Outputs (2):	120/250VAC/30VDC fused @ 2 Amps	**Relay Outputs (2)**:	120/250VAC/30VDC fused @ 2 Amps
External Voltage (For Relay Outputs)	Up to 250 VAC; 30 VDC	External Voltage (For Relay Outputs)	Up to 250 VAC; 30 VDC
Fuse	StoneL Part# ST434162	Fuse	StoneL Part# ST434162
AS-Interface Profile	ID Code = F; I/O Code = 7 (4 DI/4 DO)	**AS-Interface Profile**	ID Code = A; I/O Code = 7 (4 DI/3 DO)
Default Address	00	**Default Address**	00
Bit Assignment	Input Data / Output Data	**Bit Assignment**	Input Data / Output Data
	DI0 = Input 0 / DO0 = Relay Output 0		DI0 = Input 0 / DO0 = Relay Output 0
	DI1 = Input 1 / DO1 = Relay Output 1		DI1 = Input 1 / DO1 = Relay Output 1
	DI2 = Input 2 / DO2 = Output 2		DI2 = Input 2 / DO2 = Output 2
	DI3 = Input 3 / DO3 = Output 3		DI3 = Input 3 / DO3 = Not Used
Peripheral Fault Bit	Set = Unit current draw exceeding 220mA	**Peripheral Fault Bit**	Set = Unit current draw exceeding 220mA





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Current Usage:		**Current Usage**:	
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Discrete Outputs (2):		**Discrete Outputs (1)**:	
(Bus Powered)	24VDC (4 Watts total power available)	(Bus Powered)	24VDC (4 Watts total power available)
Relay Outputs (2):	120/250VAC/30VDC fused @ 2 Amps	**Relay Outputs (2)**:	120/250VAC/30VDC fused @ 2 Amps
External Voltage (For Relay Outputs)	Up to 250 VAC; 30 VDC	External Voltage (For Relay Outputs)	Up to 250 VAC; 30 VDC
Fuse	StoneL Part# ST434162	Fuse	StoneL Part# ST434162
AS-Interface Profile	ID Code = F; I/O Code = 7 (4 DI/4 DO)	**AS-Interface Profile**	ID Code = A; I/O Code = 7 (4 DI/4 DO)
Default Address	00	**Default Address**	00
Bit Assignment	Input Data / Output Data	**Bit Assignment**	Input Data / Output Data
	DI0 = Input 0 / DO0 = Relay Output 0		DI0 = Input 0 / DO0 = Relay Output 0
	DI1 = Input 1 / DO1 = Relay Output 1		DI1 = Input 1 / DO1 = Relay Output 1
	DI2 = Input 2 / DO2 = Output 2		DI2 = Input 2 / DO2 = Output 2
	DI3 = Input 3 / DO3 = Output 3		DI3 = Input 3 / DO3 = Not Used
Peripheral Fault Bit	Set = Unit current draw exceeding 220mA	**Peripheral Fault Bit**	Set = Unit current draw exceeding 220mA