

**Standard Input/Output Stations**



- FDNP-S0404G-TT
- FDNP-S0808G-TT
- FDNP-CSG88-TT
- FDNP-XSG16-TT
- FDNP-S1204H-TT-0149\*

\* Not FM Approved



- Rugged, Fully Potted Stations
- IP 67, IP 68, IP 69K Protection
- Auxiliary Powered
- Automatic Baud Rate Sensing

**Electrical**

- Operating Current: <75 mA plus applicable input currents (from DeviceNet)
- Sensor Current: <700 mA total (from DeviceNet except FDNP-CSG... and FDNP-XSG...) per input
- Output Current: See table on facing page

**Power Distribution**

- Inputs: DeviceNet power supply (except FDNP-CSG... and FDNP-XSG... from Auxiliary supply)
- Outputs: Auxiliary power supply

**Mechanical**

- Operating Temperature: -40 to +70°C (-40 to +158°F)
- Protection: NEMA 1,3,4,12,13 / IEC IP 67, IP 68, IP 69K
- Vibration: 50 g @ 10-500 Hz

**Material**

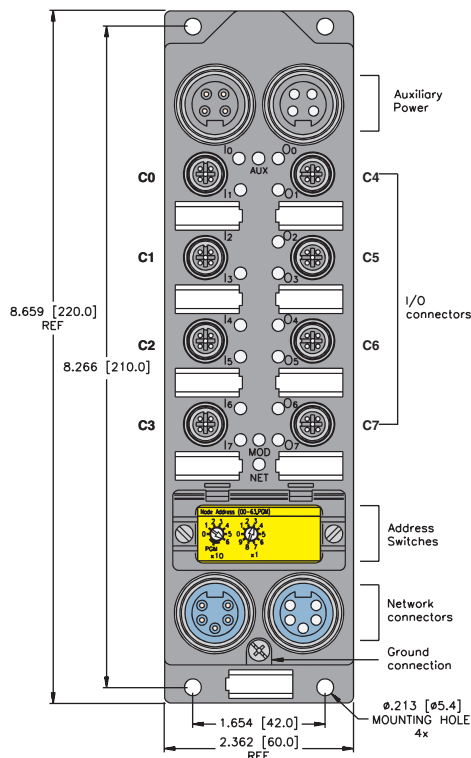
- Connectors: Nickel-plated brass (stainless steel available on request)
- Housing: Nylon 6 (other materials available on request)

**Diagnostics (Logical)**

- Open/short-circuit status mapped to DeviceNet I/O table, one bit indicates fault for entire station (FDNP-CSG88-TT maps one bit for all inputs and one bit for each output point)

**Diagnostics (Physical)**

- One LED indicates fault for entire station
- LEDs to indicate status of DeviceNet communication



**Aux. Power Pinout**

Male	Female
<b>4-Pin</b>	<b>4-Pin</b>

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

**DeviceNet minifast Pinout**

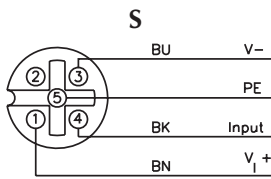
Male	Female
<b>5-Pin</b>	<b>5-Pin</b>

- 1 = Shield
- 2 =  $V+$
- 3 =  $V-$
- 4 = CAN\_H
- 5 = CAN\_L

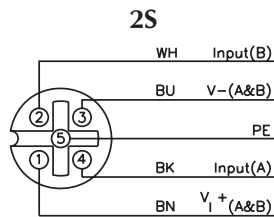
Inputs										Outputs					Data
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Part Number	Input Count	Connectors	Pinout	Inputs per Connector	Sensor Style	Group Diagnostics	Individual Diagnostics	Wire-Break Detection	Output Count	Connectors	Pinout	Outputs per Connector	Current	Individual Diagnostics	Wire-Break Detection	I/O Map
FDNP-S0404G-TT	4	0-3	S	1	PNP	X			4	4-7	G	1	0.5 A			1
FDNP-S0808G-TT	8	0-3	2S	2	PNP	X			8	4-7	2G	2	0.5 A			2
FDNP-CSG88-TT	8	0-7	C	1	PNP	X			8	0-7	C	1	0.5 A	X		5
FDNP-XSG16-TT	16	0-7	2X	2	PNP	X			16	0-7	2X	2	0.5 A			4
FDNP-S1204H-TT-0149	12	0-2, 4-6	2S	2	PNP	X			4	3, 7	2H	2	1.4 A			3

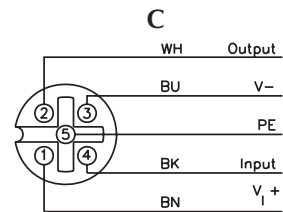
Input/Output Connectors



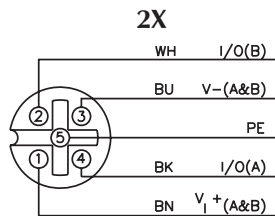
Mating cordset:  
RK 4.4T-\*-RS 4.4T



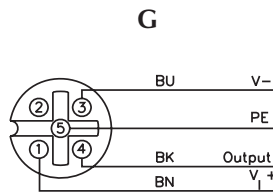
Mating cordset:  
RK 4.4T-\*-RS 4.4T  
Splitter: VBRS 4.4-2RK 4T-\*/\*



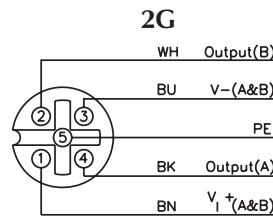
Mating cordset:  
RK 4.4T-\*-RS 4.4T  
Splitter: VB2-RS 4.4T-1/2RK 4.4T-\*/\*/S651



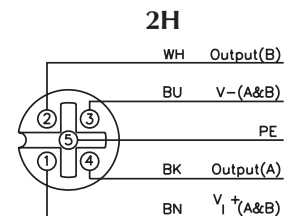
Mating cordset:  
RK 4.4T-\*-RS 4.4T  
Splitter: VBRS 4.4-2RK 4T-\*/\*



Mating cordset:  
RK 4.4T-\*-RS 4.4T



Mating cordset:  
RK 4.4T-\*-RS 4.4T  
Splitter: VBRS 4.4-2RK 4T-\*/\*



Mating cordset:  
RK 4.4T-\*-RS 4.4T  
Splitter: VBRS 4.4-2RK 4T-\*/\*

I/O Data Map 1

In	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
0	IGS	OGS	-	-	I-3	I-2	I-1	I-0	
Out	0	-	-	-	-	0-3	0-2	0-1	0-0

I/O Data Map 2

In	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
0	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0	
1	IGS	OGS	-	-	-	-	-	-	
Out	0	0-7	0-6	0-5	0-4	0-3	0-2	0-1	0-0

I/O Data Map 3

In	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
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	
Out	0	-	-	-	-	0-3	0-2	0-1	0-0

I/O Data Map 4

In	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
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	IGS	OGS							
Out	0	0-7	0-6	0-5	0-4	0-3	0-2	0-1	0-0
1	0-15	0-14	0-13	0-12	0-11	0-10	0-9	0-8	

I/O Data Map 5

In	Byte	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
0	I-7	I-6	I-5	I-4	I-3	I-2	I-1	I-0	
1	OS-7	OS-6	OS-5	OS-4	OS-3	OS-2	OS-1	OS-0	
2	IGS	-	-	-	-	-	-	-	
Out	0	0-7	0-6	0-5	0-4	0-3	0-2	0-1	0-0