

**Standard Input/Output Stations**

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



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

\* Not FM Approved



**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**

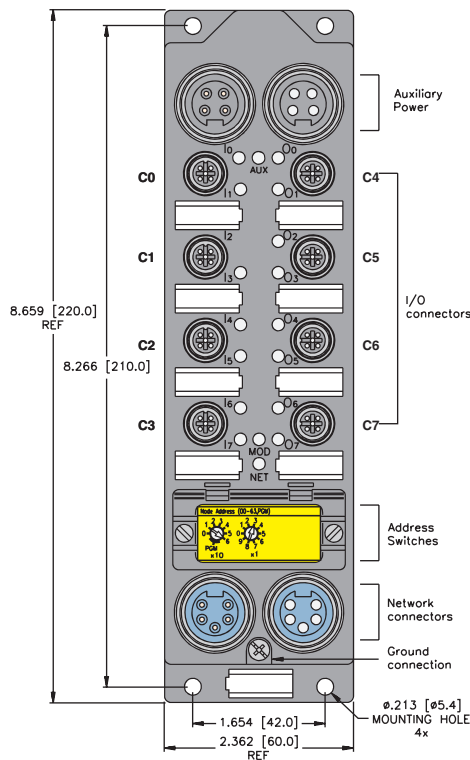
- Connectors: Nickel-plated brass (stainless steel available on request)
- Housing: Nylon 6 (other materials available on request)

**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<sub>AUX</sub>+
- 2 = Pass thru
- 3 = Pass thru
- 4 = V<sub>AUX</sub>-

**DeviceNet minifast Pinout**

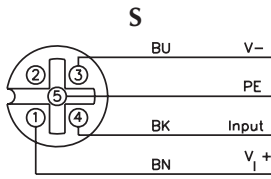
| Male         | Female       |
|--------------|--------------|
|              |              |
| <b>5-Pin</b> | <b>5-Pin</b> |

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

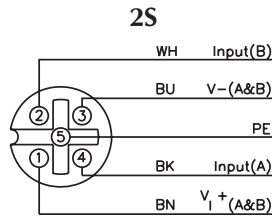
|  | Inputs |  |  |  |  |  |  |  | Outputs |  |  |  |  | Data |
|--|--------|--|--|--|--|--|--|--|---------|--|--|--|--|------|
|--|--------|--|--|--|--|--|--|--|---------|--|--|--|--|------|

| 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       |

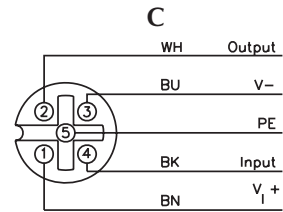
### Input/Output Connectors



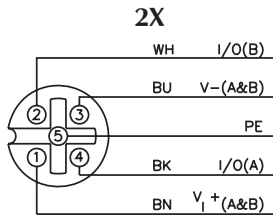
**Mating cordset:**  
RK 4.4T-\*-RS 4.4T



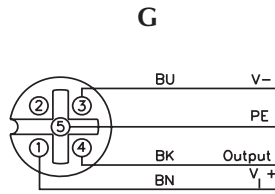
**Mating cordset:**  
RK 4.4T-\*-RS 4.4T  
**Splitter:** VBRS 4.4-2RK 4T-\*/\*



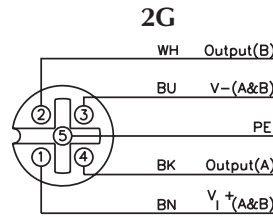
**Mating cordset:**  
RK 4.4T-\*-RS 4.4T  
**Splitter:** VB2-RS 4.4T-1/2RK 4.4T-\*/\*/S651



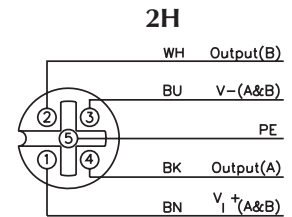
**Mating cordset:**  
RK 4.4T-\*-RS 4.4T  
**Splitter:** VBRS 4.4-2RK 4T-\*/\*



**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   |
| 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  |
| Out | 0    | 0-7   | 0-6   | 0-5   | 0-4   | 0-3   | 0-2   | 0-1   | 0-0   |
|     | 1    | IGS   | -     | -     | -     | -     | -     | -     | -     |