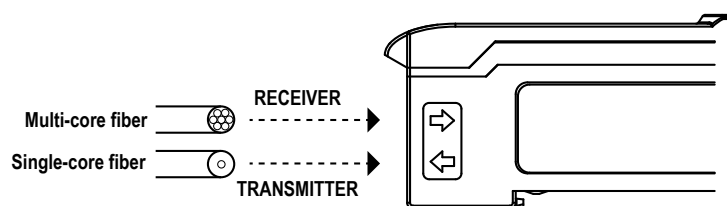
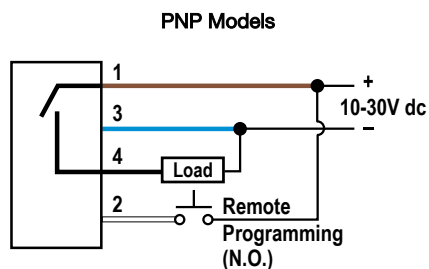
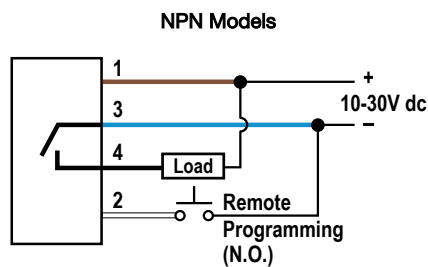


| Fiber Outer Diameter (mm) | Adapter Color     |
|---------------------------|-------------------|
| Ø 1.0                     | Black             |
| Ø 1.3                     | Red               |
| Ø 2.2                     | No adapter needed |

When connecting coaxial-type fiber assemblies to the amplifier, install the single-core (center) fiber to the Transmitter port, and the multi-core (outer) fiber to the Receiver port. This will result in the most reliable detection.



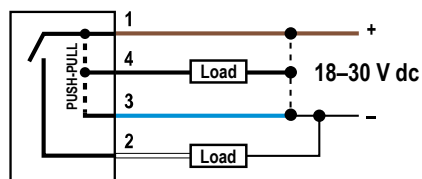
## Wiring Diagrams



### Key

- 1 = Brown
- 2 = White
- 3 = Blue
- 4 = Black

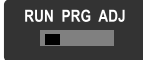
### IO-Link Models



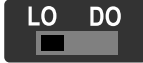
Open lead wires must be connected to a terminal block.

## Top Panel Interface

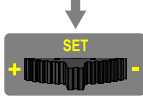
Opening the dust cover provides access to the top panel interface. The top panel interface consists of the RUN/PRG/ADJ mode switch, LO/DO switch, +/SET/- rocker button, dual red/green digital displays, and output LED.

**RUN/PRG/ADJ Mode Switch**

The RUN/PRG/ADJ mode switch puts the sensor in RUN, PRG (Program), or ADJ (Adjust) mode. RUN mode allows the sensor to operate normally and prevents unintentional programming changes via the +/-SET/- button. PRG mode allows the sensor to be programmed through the display driven programming menu (see **Program Mode** below). ADJ mode allows the user to perform Expert TEACH/SET methods and Manual Adjust (see **Adjust Mode** below).

**LO/DO Switch**

The LO/DO switch is used to select Light Operate or Dark Operate mode. In Light Operate mode, the output is ON when the sensing condition is above the threshold (for Window SET, the output is ON when the sensing condition is inside the window). In Dark Operate mode, the output is ON when the sensing condition is below the threshold (for Window SET, the output is ON when the sensing condition is outside the window).

**+/-SET/- Rocker Button**

The +/-SET/- rocker button is a 3-way button. The +/- positions are engaged by rocking the button left/right. The SET position is engaged by clicking down the button while the rocker is in the middle position. All three button positions are used during PRG mode to navigate the display driven programming menu. During ADJ mode, SET is used to perform TEACH/SET methods and +/- are used to manually adjust the threshold(s). The rocker button is disabled during RUN mode, except when using Window SET, see [Window SET](#) on page 6.

**Red/Green Digital Displays**

During RUN and ADJ mode, the Red display shows the signal level and the Green display shows the threshold. During PRG mode, both displays are used to navigate the display driven programming menu.

**Output LED**

The output LED provides a visible indication when the output is activated.

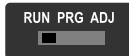
## Operating Instructions

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### Remote Input/IO-Link

For more information about how to perform TEACH/SET methods, to program the sensor remotely, or to interface with the sensor via IO-Link, see the DF-G1 Manual (P/N 161999).

### Run Mode



Run mode allows the sensor to operate normally and prevents unintentional programming changes. The +/-SET/- rocker button is disabled during RUN mode, except when using Window SET.