

## Quick Start Guide Supplement

DF-G2 High Speed Expert™ Dual Display Fiber Amplifier with IO Link

For additional information on these models see p/n 193601 and 193602 available at [www.bannerengineering.com](http://www.bannerengineering.com).



### WARNING: Not To Be Used for Personnel Protection

Never use this device as a sensing device for personnel **protection**. Doing so could lead to serious injury or death. This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition.

### Models

Models	Sensing Beam Color	Reference Sensing Range <sup>1</sup>	Channel 1	Channel 2	Connector <sup>2</sup>
DF-G2W-KD-Q5	Broad spectrum white	550 mm	IO-Link, push/pull output	PNP only output, or input	150 mm (6 in) cable with M12 Euro-style connector
DF-G2G-KD-Q5	Visible green	660 mm			
DF-G3B-KD-Q5	Visible blue	770 mm			

### Specifications

#### Sensing Beam

DF-G2W: Broad spectrum white, 450 to 650 nm.  
 DF-G2G: Visible green, 525 nm  
 DF-G2B: Visible blue, 470 nm

#### Certifications



### Maximum Range versus Response Speed

Description	Response Speed	Maximum Range White <sup>1</sup>	Maximum Range Green <sup>1</sup>	Maximum Range Blue <sup>1</sup>
Fast	50 µs	250 mm	300 mm	350 mm
Standard	250 µs	360 mm	435 mm	510 mm
Medium Range	500 µs	450 mm	540 mm	630 mm
Long Range	1000 µs	550 mm	660 mm	770 mm
Long Range (with immunity)	2000 µs	550 mm	660 mm	770 mm

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<sup>1</sup> Excess gain = 1, Long Range response speed, opposed mode sensing. PIT46U plastic fiber used for visible LED models.  
<sup>2</sup> Models with a quick disconnect require a mating cordset.

