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*.

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[1]	Channel 1	Channel 2	Connector[2]
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

Industrial Control Equipment 3TJJ

Maximum Range versus Response Speed

Description	Response Speed	Maximum Range White[1]	Maximum Range Green[1]	Maximum Range Blue[1]
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

Banner Engineering Corp. Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.

Banner Engineering Corp. reserves the right to change, modify or improve the design of the product without assuming any obligations or liabilities relating to any product previously manufactured by Banner Engineering Corp. Any misuse, abuse, or improper application or installation of this product or use of the product for personal protection applications when the product is identified as not intended for such purposes will void the product warranty. Any modifications to this product without prior express approval by Banner Engineering Corp will void the product warranties. All specifications published in this document are subject to change; Banner reserves the right to modify product specifications or update documentation at any time. Specifications and product information in English supersede that which is provided in any other language. For the most recent version of any documentation, refer to: *www.bannerengineering.com*.

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

Original Document
200163 Rev. A

21 April 2017

200163

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com