

DF-G1 Expert™

Dual Display Fiber Amplifier



Easy-to-use dual display fiber optic amplifier with high performance and energy savings

The DF-G1 Expert Dual Display Fiber Amplifier is an easy-to-use fiber optic system that can be set up quickly to reduce installation time. The user interface is intuitive and the amplifier features a dual display screen, indicating the signal level and threshold simultaneously for simple operation. The DF-G1 has minimal warm-up drift, taking only minutes to start up and operate at full performance.

- ▶ Easy-to-read dual digital display indicates signal level and threshold simultaneously for simple operation
- ▶ Simple user interface ensures easy sensor set up and programming for reduced installation time
- ▶ User has complete control over operating parameters, including switch point threshold, Light Operate or Dark Operate, output timing functions, gain level, and response speed
- ▶ Thermally stable electronics minimize warm-up drift and allows for side-by-side mounting of multiple fiber amplifiers
- ▶ ECO (economy) display mode reduces amplifier power consumption by 25%
- ▶ Cross-talk avoidance algorithm allows two sensors to operate in close proximity for many applications
- ▶ Expert TEACH and SET methods ensure optimal gain and threshold for all applications, especially low contrast applications
- ▶ Secure and reliable fiber clamping
- ▶ Sleek 10 mm wide housing mounts to 35 mm DIN rail
- ▶ Visible red LED sensing beam makes alignment easy

Dual digital display provides constant feedback



Syringe Presence Detection

The DF-G1 sensor can be easily configured for detection of small targets like syringes in a limited space packaging process. The high flex plastic fiber also provides easy mounting at the sensing point.



Small Part Counting

Small part counting applications are easy to set up and calibrate. The timing can be easily adjusted for various part sizes.

40-plus years of sensor design experience, quality control, sales support and cost-effective solutions:

- ▶ Banner quality products with global availability
- ▶ Rapid customization with most products shipping in 3 days or less
- ▶ Industry's largest force of application engineers to solve your toughest challenges
- ▶ More than 3,000 factory and local field representatives to serve you

www.bannerengineering.com

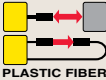
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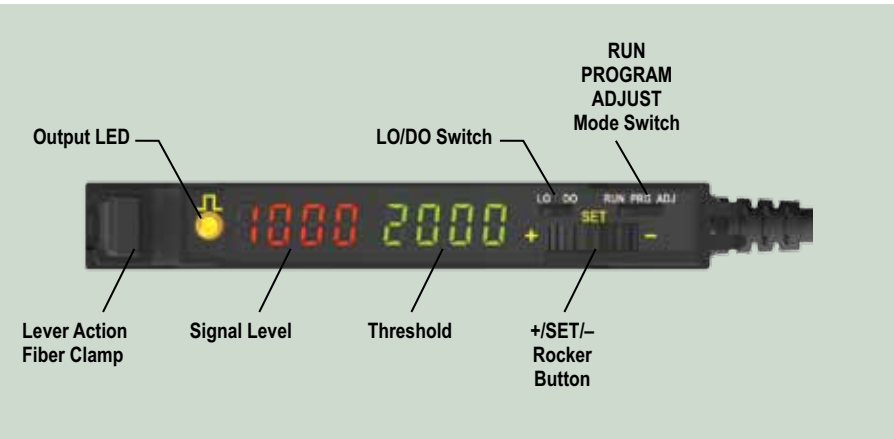
more sensors, more solutions

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DF-G1 Dual Display Fiber Amplifier, 10-30V dc

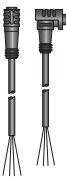
Sensing Mode/LED	Connection	Range	Output	Model
 PLASTIC FIBER	2 m	Range varies by Speed Selection used and with fiber optics used.	NPN	DF-G1-NS-2M
	Integral M8 Pico		PNP	DF-G1-PS-2M
	150 mm PVC pigtail, M12 Euro	Reference catalog or website for range information.	NPN	DF-G1-NS-Q7
			PNP	DF-G1-PS-Q7
			NPN	DF-G1-NS-Q5
			PNP	DF-G1-PS-Q5

For M8 Pico pigtail change the suffix 2M to Q3 in the 2 m model number (example, DF-G1-NS-Q3).

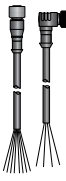



Quick-Disconnect (QD) Cordsets

4-Pin M8/Pico-Style

	Snap-On Models		
	Length	Straight	Right-Angle
	2 m	PKG4-2	PKW4Z-2
	5 m	PKG4-5	PKW4Z-5
	9 m	PKG4-9	PKW4Z-9

4-Pin M12/Euro-Style

	Models		
	Length	Straight	Right-Angle
	1.83 m	MQDC-406	MQDC-406RA
	4.57 m	MQDC-415	MQDC-415RA
	9.14 m	MQDC-430	MQDC-430RA
	15.20 m	MQDC-450	MQDC-450RA

	Threaded Models		
	Length	Straight	Right-Angle
	1.83 m	PKG4M-2	PKW4M-2
	4.57 m	PKG4M-5	PKW4M-5
	9.14 m	PKG4M-9	PKW4M-9

The DF-G1 is used with hundreds of standard plastic and glass fiber optic assemblies.




Banner Engineering will develop custom fiber assemblies to meet your unique application requirements.

Dimensions



for technical information

Mounting Options

Model	
	DIN-35.. <ul style="list-style-type: none"> • 35 mm DIN Rail • Available in 70, 105 and 140 mm lengths
	SA-DIN-BRACKET <ul style="list-style-type: none"> • 1 plastic bracket with mounting screws
	SA-DIN-BRACKET-10 <ul style="list-style-type: none"> • Package of 10 plastic brackets with mounting screws
	SA-DIN-CLAMP <ul style="list-style-type: none"> • Pair of clamps to lock amplifiers on to DIN Rail

