

## Long-Range Fiber Amplifier

New DF-G3 allows sensing up to 3,600 mm with both discrete and analog output options

Mülheim, March 15, 2016 – Turck has introduced a long-range dual display fiber amplifier with a high power LED that drives large amounts of light through small core fibers. The new DF-G3, developed by Banner Engineering, Turck's partner for optical sensors, joins the company's previously introduced general purpose and high speed amplifiers and hundreds of fiber assemblies to support sensing applications in many industries such as automotive, food processing, packaging and pharmaceutical. Easy-to-read dual digital displays show signal level in red and threshold values in green. A simple user interface assures easy setup and programming. Sensing output is compatible with all standard PLCs, HMIs and other machine control systems.

Output options include single and dual discrete, and analog. With sensing range up to 3,600 mm, the amplifier is designed for demanding applications including edge guiding using analog output and fiber array, precise positioning using discrete output and lensed fiber and long range sensing using discrete output and opposed or diffuse fiber.

The amplifier's compatibility with multiple fiber lenses and arrays supports ease of use by providing a consistent user interface for all applications. Physical separation of the amplifier from the sensor allows use in harsh conditions. A crosstalk avoidance algorithm allows multiple units to be mounted adjacent to one another for efficient machine configuration.

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New DF-G3 fiber amplifier allows long-range sensing up to 3,600 mm

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