

## DATASENSING DG 10MM DIAMETER THROUGH BEAM SENSORS

DGR/00-1C

Receiver 60m D.10mm L46mm AL Vtr 15m

- Nominal sensing distance (Sn): 2 m ExG. = 4
- Ø 10 mm plastic housing 41 mm length
- Emitter receiver outputs
- IP67 protection
- Ø 13 mm hole irreversible spring latch fixing



### PRODUCT DESCRIPTION

The **DG Series 10mm Diameter Through Beam Sensor** from Datasensing (formerly Micro Detectors) is an ideal solution for applications where space is limited and precision is critical. With its compact 10mm smooth body design, this sensor is perfect for tight, hard-to-reach spaces, making it an excellent choice for a wide range of industrial and automation systems. Whether you're working in manufacturing, robotics, or packaging, the DG Series offers the performance and versatility needed to enhance your processes.

Despite its small size, the DG Series sensor offers impressive performance with a detection range of up to 2 meters. This makes it highly effective for applications requiring accurate object detection, even in environments with limited space. The sensor is available with either a PNP or NPN output, allowing for easy integration into different systems based on your specific control requirements. This flexibility ensures that the DG Series can meet the demands of various industries, from high-speed assembly lines to precision robotics.

Designed to withstand harsh environments, the DG Series sensor features a high IP67 protection rating, making it resistant to dust and water ingress. This robust design ensures reliable operation in challenging conditions, whether in wet, dusty, or dirty environments. This durability makes the DG Series perfect for use in industrial automation, packaging systems, or any application where environmental resilience is essential.

#### Technical features:

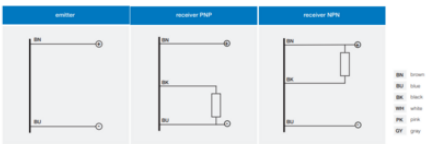
- Compact Design: 10mm diameter smooth body for easy integration into tight spaces and difficult-to-reach applications.
- Detection Range: Up to 2 meters for reliable detection over a considerable distance.
- Output Options: Available with PNP or NPN output for compatibility with a wide range of control systems.
- IP Protection Rating: High IP67 rating, ensuring resistance to dust, dirt, and water, making it suitable for harsh environments.
- Operating Principle: Through-beam sensor configuration, offering precise and reliable detection of objects or interruptions in the beam.
- Small Footprint: Ideal for use in space-constrained applications, offering a compact solution without compromising on performance.
- Wide Application Range: Suitable for a variety of applications, including object detection, position sensing, and counting in automation, robotics, and packaging.
- Durability: Designed for long-lasting operation in industrial settings, with a robust construction that ensures consistent performance over time.
- Response Time: Fast response time, ideal for high-speed applications requiring quick and accurate detection.
- Operating Temperature Range: Typically between -25°C to +55°C, ensuring reliable operation across various environmental conditions.

### TECHNICAL DATA

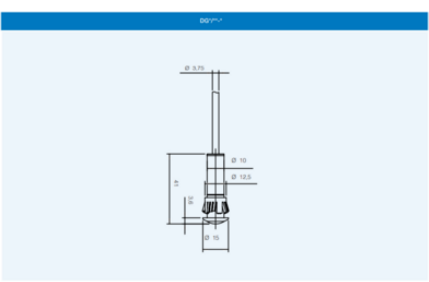
Housing

Miniaturized

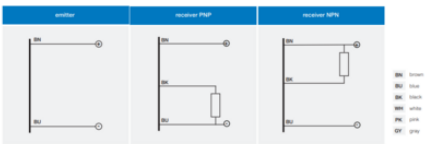
electrical diagrams of the connections



dimensions (mm)



electrical diagrams of the connections



dimensions (mm)

