

## DATASENSING DM SERIES METAL M12 BODY PHOTOSENSORS

DM7/0P-1H

Photosensor 300 mm diff. PNP with adj. conn.M12

- Sensing distance up to 4m
- M12 Nickel-plated brass body
- PNP or NPN with Light-on/Dark-on selectable outputs
- IP67 Protection
- Local and remote teach-in function



### PRODUCT DESCRIPTION

The **DM Series Metal M12 Body Photosensors** from Datasensing are designed to deliver reliable, high-performance solutions for a wide range of industrial applications. Offering versatile optic functions, including retro-reflective, diffuse proximity, and through-beam modes, these sensors are adaptable to a variety of detection and measurement tasks. Whether you're looking for precise object detection, position sensing, or presence monitoring, the DM Series provides the flexibility you need in industrial environments.

Constructed with a rugged M12 threaded metal housing, the DM Series sensors are built to withstand tough conditions. They offer both plastic and metal housing options to suit the specific needs of your application. This durability ensures long-term reliability even in environments where machinery or equipment is exposed to vibration, dust, moisture, and other harsh conditions. The sensors are available with either a 2-meter embedded cable or an M12 connection, providing further installation flexibility.

With a wide range of sensing options, the DM Series excels in multiple applications, from manufacturing automation to packaging lines, robotics, and more. The retro-reflective mode is ideal for detecting objects at a distance, while the diffuse proximity mode works well for detecting objects at close range. The through-beam configuration offers highly accurate detection over longer distances, making it perfect for applications requiring precise interruption sensing.

#### Technical Feature:

- Sensor Types: Available in retro-reflective, diffuse proximity, and through-beam configurations
- Housing: M12 threaded metal housing, offering a durable and compact design suitable for industrial environments. Option for plastic or metal housing, providing flexibility based on environmental conditions.
- Connection Options: 2-meter embedded cable or M12 connection for easy installation and flexible integration into various systems.
- Operating Range: Wide detection range, depending on the specific sensing mode and application, ensuring reliable performance in diverse environments.
- IP Rating: IP67 protection rating, ensuring resistance to dust, dirt, and water ingress, making the sensor suitable for use in harsh or dirty environments.
- Operating Temperature Range: Typically ranges from -25°C to +55°C, ensuring consistent performance across various environmental conditions.
- Compact Size: M12 form factor, ideal for integration into space-constrained applications while maintaining durability and reliability.
- High Precision: Offers accurate object detection and position sensing
- Wide Application Range: Suitable for use in industrial automation, robotics, packaging lines, and other factory automation applications.
- Power Supply: Compatible with typical industrial power supplies (e.g., 24V DC)
- Reliability: Designed for long-term operation in challenging environments, with a rugged metal housing to protect against mechanical wear, vibration, and external factors.

### TECHNICAL DATA

Distance max	300 mm
Electrical connection	M12 plug cable exit

