

## DATASENSING MV/MQ SERIES M18 AC PHOTOELECTRIC SENSORS

MV2/A0-0A

Diffuse 100mm plast. cable 2m axial AC

- Sensing distance up to 32m
- PBT (plastic housing) / polycarbonate (cable exit)
- AC multivoltage output
- IP67 protection degree
- Wide range of models: Diffuse, retro-reflective, polarised and through-beam



### PRODUCT DESCRIPTION

The **MV/MQ Series M18 AC Photoelectric Sensors** from Datasensing (formerly Micro Detectors) are designed to meet the diverse needs of industrial applications requiring high-performance sensing solutions. These sensors offer a variety of optic functions, including retro-reflective, diffuse proximity, background suppression, and through beam, making them suitable for detecting a wide range of objects in different industrial environments. Whether for object detection, presence sensing, or position monitoring, the MV/MQ Series delivers consistent and accurate results.

One of the key advantages of the MV/MQ Series is their multivoltage AC capability, enabling operation across a wide range of voltages, making them versatile and adaptable to various systems. These sensors are available in both radial and axial optics, allowing for flexible alignment depending on your application's specific requirements. Additionally, the sensors come with either a 2m embedded cable or M12 connection, offering seamless integration into industrial control systems.

Housed in a classic M18 barrel design, the MV/MQ Series provides excellent mounting flexibility, making them easy to install in both confined spaces and larger system setups. They are available in both plastic and metal housing, ensuring durability and resistance to harsh environments, such as exposure to dust, moisture, and mechanical stress. Whether used in material handling, packaging, or automation, these sensors are engineered to withstand the challenges of demanding industrial conditions.

#### Technical features:

- **Sensor Types:** Retro-reflective, diffuse proximity, background suppression and through beam
- **Housing:** M18 barrel housing, ensuring easy integration and flexibility in various industrial applications or available in plastic or metal housing, offering durability and resistance to harsh environmental conditions.
- **Optics:** Available in radial or axial optics, providing options for different alignment needs depending on the application.
- **Power Supply:** Multivoltage AC operation, compatible with a wide range of AC voltage inputs, making the sensors adaptable to various industrial systems.
- **Connection Options:** Comes with 2m embedded cable or M12 connection, allowing for seamless integration into control systems.
- **Fast Response Time:** Designed for quick detection, ensuring reliable performance even in high-speed operations.
- **Environmental Protection:** Built to withstand challenging industrial environments with protection against dust, moisture, and mechanical wear.
- **Applications:** Ideal for use in industrial automation, material handling, packaging, robotics, and logistics applications.
- **Mounting Flexibility:** The M18 housing provides excellent mounting flexibility, fitting a variety of system designs.
- **Detection Range:** Reliable detection across a range of distances, depending on the specific optic function (e.g., retro-reflective, diffuse proximity).

### TECHNICAL DATA

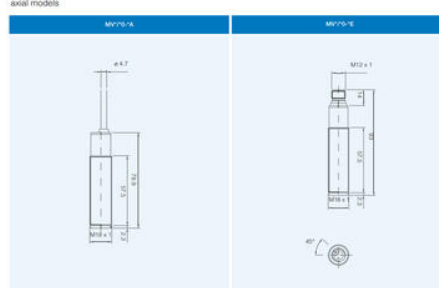
<b>Distance max</b>	100 mm
<b>Electrical connection</b>	Embedded 2m cable
<b>Housing</b>	M18
<b>IP class</b>	IP67

<b>LED indication</b>	YES
<b>Material of body</b>	PBT
<b>Photocell technology</b>	Diffuse Reflection
<b>Supply voltage ac max</b>	253 V AC
<b>Supply voltage ac min</b>	20 V AC
<b>Temperature operational max</b>	70 °C
<b>Temperature operational min</b>	-25 °C
<b>Type of light</b>	IR LED

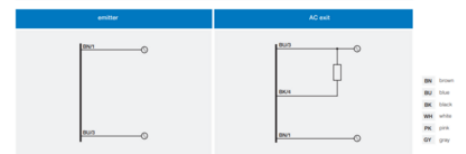
plug



dimensions (mm)



electrical diagrams of the connections



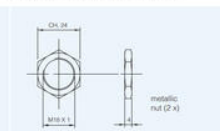
dimensions (mm)

accessories included in all plastic models

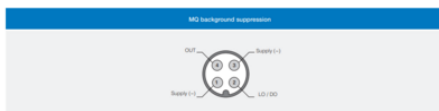


dimensions (mm)

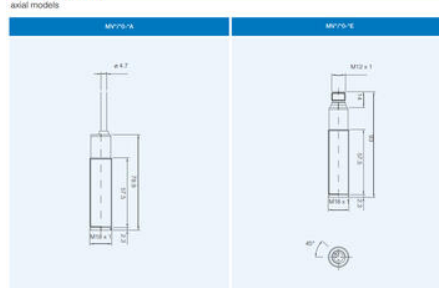
accessories included in all metallic models



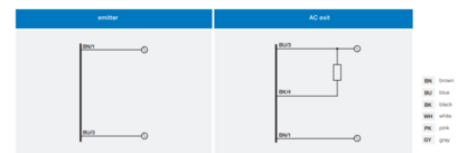
plug



dimensions (mm)



electrical diagrams of the connections



dimensions (mm)

accessories included in all plastic models



dimensions (mm)

accessories included in all metallic models

