

## DATASENSING MS/MP SERIES M18 DECOUT OUTPUT PHOTOELECTRIC SENSORS

MS0/00-0A  
 BGS 50mm plastic cable 2m axial

- Sensing distance up to 32m
- Plastic or metal housing
- DECOUT output
- IP67
- Wide range of models: diffuse, retro-reflective, polarised, through-beam detection and background suppression



### PRODUCT DESCRIPTION

The **MS/MP Series M18 DECOUT Output Photoelectric Sensors** from Datasensing (formerly known as Micro Detectors) offer versatile and reliable solutions for a wide range of industrial applications. These sensors come equipped with a variety of optic functions, including retro-reflective, diffuse proximity, background suppression, and through beam, ensuring precise detection of objects in diverse environments. Designed with flexibility in mind, they are available in radial or axial optics and come with either a 2m embedded cable or an M12 connection, offering easy integration into various automation systems.

The M18 barrel housing design ensures excellent mounting flexibility, allowing the sensors to be used in a variety of industrial settings. Whether you're working in confined spaces or need a sensor with broader installation options, the classic M18 form factor is ideal for both simple and complex installations. The sensors are available in plastic or metal housing, providing durability and resistance to harsh industrial conditions, making them perfect for environments with dust, moisture, and mechanical stress.

A standout feature of the MS/MP Series is the DECOUT output. This multi-functional output can be configured as NPN, PNP, NO (Normally Open), or NC (Normally Closed), offering enhanced flexibility for different control and signalling requirements. This feature allows users to easily integrate the sensors into their systems, whether they require different signal types or switching configurations, offering customization for specific industrial needs. The DECOUT output ensures the sensor can adapt to various system architectures, streamlining installation and operation.

#### Technical features:

- Sensor Types: Retro-reflective, diffuse proximity, background suppression and through beam
- Housing: M18 barrel housing, offering excellent mounting flexibility for a variety of industrial applications or available in plastic or metal housing for durability and resistance to harsh environments.
- Optics: Available with radial or axial optics for flexible alignment options based on specific application needs.
- Connection Options: Comes with 2m embedded cable or M12 connection, making it easy to integrate into existing automation systems.
- Output Type: DECOUT output, which provides multi-functional capabilities. Output options include: NPN or PNP configurations or normally Open (NO) or Normally Closed (NC) options
- Power Supply: Operates on 24V DC, compatible with standard industrial control systems.
- Fast Response Time: Quick response time for real-time detection and high-speed operation.
- Durability: Built to withstand harsh industrial environments, with protection against dust, moisture, and mechanical wear.
- Applications: Ideal for industrial automation, material handling, robotics, packaging, and logistics applications.
- Sensing Range: Capable of detecting a wide range of objects with reliable accuracy, depending on the specific sensor function (retro-reflective, diffuse proximity, etc.).
- Environmental Protection: Designed to perform in challenging conditions, ensuring long-lasting functionality.

### TECHNICAL DATA

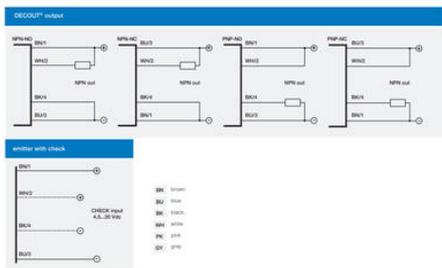
<b>Distance max</b>	50 mm
<b>Electrical connection</b>	Embedded 2m cable
<b>Housing</b>	M18

<b>IP class</b>	IP67
<b>LED indication</b>	YES
<b>Material of body</b>	PBT
<b>Photocell technology</b>	Background suppression
<b>Supply voltage dc max</b>	30 V DC
<b>Supply voltage dc min</b>	10 V DC
<b>Temperature operational max</b>	70 °C
<b>Temperature operational min</b>	-25 °C
<b>Type of light</b>	IR LED

plug

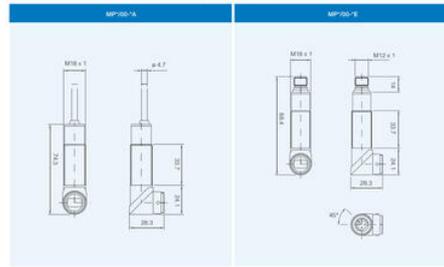


electrical diagrams of the connections



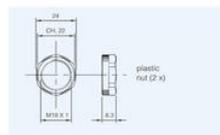
dimensions (mm)

diffuse reflection, retroreflective, polarized, through beam radial models



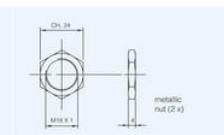
dimensions (mm)

accessories included in all plastic models



dimensions (mm)

accessories included in all metallic models



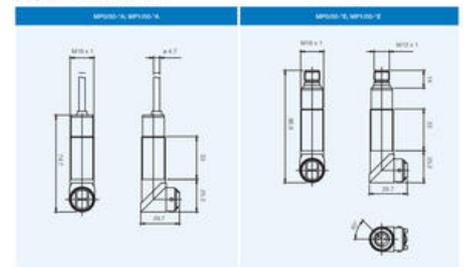
dimensions (mm)

axial models



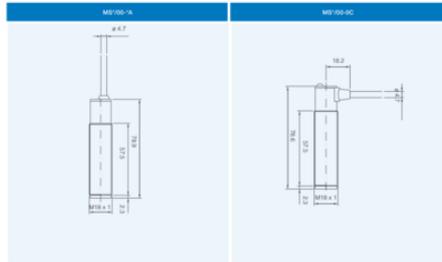
dimensions (mm)

background suppression radial models

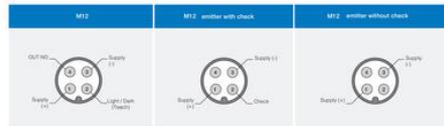


dimensions (mm)

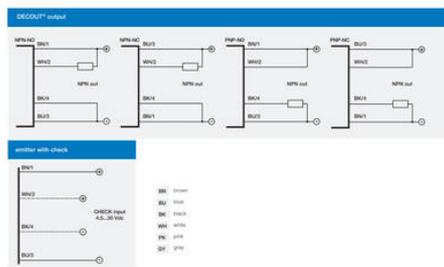
axial models



plug

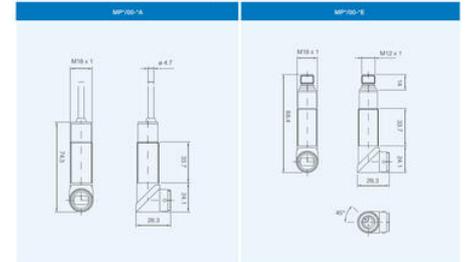


electrical diagrams of the connections



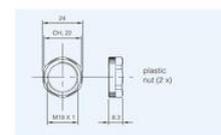
dimensions (mm)

diffuse reflection, retroreflective, polarized, through beam radial models



dimensions (mm)

accessories included in all plastic models



dimensions (mm)

accessories included in all metallic models

