**CLASS 1 LASER PRODUCT**

- **Description**: Laser wavelength: 655 nm; optionally full emission. M12 output: 100 mA. Laser emission: 100 mW. Safety: IEC60825. Emission according to EN60825-1.2007. Compliance with EN60825-1:2007 is confirmed by a declaration of conformity issued by MD Micro Detectors S.p.A.

**WARNING** These products are NOT safety sensors that the laser beam direction permanently enters the operator's eyes.

**INSTALLATION**

- **Connectors**
  - Through - beam
    - Using the recommended bracket, provisionally install the emitter and receiver within the specified distance. Position the interface cable according to the specifications in this manual. Then, position the bracket to allow a maximum of 5° declination. Check the threshold is set at 50% of the detected signal, thus giving the device a standard sensitivity adjustment.

**MECHANICAL DRAWINGS**

- **Colours**
  - GREEN: power on
  - YELLOW: off (dark state)
  - WHITE: operable
  - RED: off (emission disable)
  - BLUE: master
  - PINK: auxiliary

**SPECIFICATIONS**

- **M12 Laser sensors 3/4 wires, DC**
  - **External Light**
    - -10 °C / +55 °C (without freeze)
    - **Polarity reversal, Transient**
    - **Supply Electrical**
    - **Voltage Drop**
    - **Ripple**
    - **Operating Voltage**
    - **Emission**
    - **Distance (Sn)**
    - **Nominal Sensing**

**NOTE**

- In case of combined load, resistive and capacitive, the maximum permissible capacity is 100 µF for maximum operating voltage 100 V.

**CAUTIONS**

- **Teach-in button**
  - The button is in any case present.
  - In the event that the noise induced by the power lines is too high or the background or other objects behind those to be detected are too bright, the capacitive load of the service and thus giving the device a standard sensitivity adjustment. If the threshold is reached, the device emits a signal, proportional to the sensitivity adjustment.

**FEATURES**

- **MMO Micro Detectors S.p.A.**
  - Our components are characterized by a high power factor and a high current, allowing for an effective and reliable performance in the power supply situation.
  - They are designed for a wide range of applications, including automotive, industrial, and medical fields.
  - The components are manufactured using high-quality materials and advanced manufacturing techniques, ensuring durability and reliability.
  - The components are subject to rigorous testing and quality control processes, ensuring compliance with industry standards and regulations.