**SENSORE FOTOELETTRICO CUBICO MINIATURIZZATO**

Manuale d’installazione - CATBOM1467/001 - ITA - Creato: 22/04/2014

**CONTENUTO DELLA CONFEZIONE**
- Manuale d’installazione

**DESCRIZIONE GENERALE**
- Fotocelle rettangolari miniaturizzate ad alte prestazioni
- Emissione infrarossata e rossa ad alta intensità
- Sensibilità regolabile mediante trimmer
- Stato dell’uscita LO/DO selezionabile
- Frequenza di commutazione fino a 2KHz

**SCHEMI ELETTRICI DELLE CONNESSIONI**

**CONNETTORI**

**QM**

**DIMENSIONI**

**LEGENDA:**
- BN = marrone; BK = nero; BU = blu; WH = bianco

**ATTENZIONE** Questo prodotto NON è un componente di sicurezza e NON deve essere usato in applicazioni di salvaguardia della sicurezza delle persone.

Dichiarazione di conformità

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**SUPPLIED MATERIAL**
- Installation manual

**GENERAL DESCRIPTION**
- Cubic miniaturized photoelectric sensor with high performance
- Red Hi Power and IR emission
- Sensing distance adjustment by trimmer
- Output state selectable Lo/Do
- Switching frequency up to 2KHz

**ELECTRICAL DIAGRAMS OF THE CONNECTIONS**

**PLUGS**

**QMS**
- M8 4 pin
- **QMS**
- M8 4 pin

**KEY:**
- BN = brown; BK = black; BU = blue; WH = white

**ADJUSTMENT**
- Polarized and retroreflective:
  - Mount the reflector and the sensor in the required positions.
  - Turn the distance potentiometer clockwise to maximum. Adjust the sensor horizontally and vertically until the yellow and the green LEDs go ON to ensure that the beam hits the reflector. Turn the distance potentiometer clockwise until both LEDs go OFF. For correct adjustment turn the distance potentiometer clockwise until both LEDs are steadily ON again.

- Background suppression:
  - Mount the sensor in the required position pointing at the target. Turn the distance potentiometer counter clockwise to minimum. Turn the distance potentiometer clockwise until the yellow LED and the green LED go ON.
  - The yellow LED is switching on. Verify that the detection is flick free.

**BACKGROUND SUPPRESSION:**
- Mount the sensor in the required position pointing at the target. Turn the distance potentiometer clockwise to maximum. Move the receiver (and the emitter, if necessary) horizontally and vertically until the yellow and the green LEDs go ON and fix the sensors. Turn the distance potentiometer clockwise until both LEDs go OFF. For correct adjustment turn the distance potentiometer clockwise until both LEDs are steadily ON.

**CONNECTIONS AND INSTALLATION**
- Make sure that the supply voltage is correctly settled with a ripple corresponding to the values indicated on the catalogue.
  - In case the noise produced by the power lines exceed the values foreseen by the CE norm (interference immunity), separate the sensor cables from both the power and high tension lines, and insert it in a grounding metal raceway. Moreover, it is advisable to connect the sensor directly to the supply source and not to other devices.
  - Avoid contact with organic solvents.
  - Avoid direct exposition of the receiver to strong light or sun light.
  - Use a wet cloth to clean the optic and then dry it.

**Déclaration de conformité**
M.D. Micro Detectors S.p.A. con Unico Socio declare under our sole responsibility that these products are in conformity with the following EEC directive: 2004/108/EC and subsequent amendments.

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