MAC 332

The fixed mounted 1D and 2D code reader for product identification or online data recording

Reading in pulsed transport
In many automatic production procedures, the objects are transported sequently. Respectively, reading can be done in standstill. The reader does not have to allow for high transport speeds or high decoding performances. In fact, flexibility is encouraged in various applications.

CMOS Technology – high resolution for 1D and 2D codes
The MAC 332 has a CMOS technology vision sensor which allows cost effective production and compact construction. The high resolution of the vision sensor allows in addition to the acquisition of 2D codes (Data Matrix, PDF 417, MaxiCode, QR Code etc.) also the acquisition of nearly all current 1D Barcodes. These symbologies are read omnidirectional. The code is always read, as long as the image area is sighted. The HD version offers the possibility to read and decode very small codes. The reader MAC 332 in combination with the Data Matrix ECC 200 code opens a new world in the marking of components with extreme small labels.

Automatic adjustment
The reader MAC 332 is user friendly! Complicated adjustments of various parameters are not necessary. The identification of the type of code, the determination of the contrast or the size of the symbology takes place automatically. This reader is available with a internal or external trigger.

Data Matrix ECC 200
26 x 26 module

Omnitron AG, Griesheim
2 codes, same content
Compact and easy installation
The small size, the adjustment angle of +/- 45° and the rotation angle of 360° makes nearly all mounting situations possible. A red target light, a very simple but effective aid, makes the installation very easy. A cable enables power requirement and data exchange. Data transmission is via RS232 Interface. Plug in, switch on, the code reader MAC 332 is immediately ready for use!

Technical Data

MAC 332 HD
MAC 332 ND

Sensor: CMOS
Light source: integrated LED-flash (red)
Evaluation rate:
- 2D Codes up to 4 Hz
- 1D Codes up to 6 Hz
Reading rates: standstill or pulsed
Orientation: omnidirectional
Adjustment angle: +/- 45°
Rotation angle: 360°
Adjustment aid: red target light
Input: Trigger, opto-coupled
Interface: 1 x RS232
Transmission: 9.600 to 115.200 bauds
Format: ASCII

Ambient temperature: 0°C to +50°C
Stock temperature: -40°C to +70°C
Relative Humidity: 0 to 95% at +50°C
Power supply: 9 - 30V DC, 2.5 - 3.5 W
Housing: anodized Aluminium
Protection class: IP 52
Dimensions: 85 x 55 x 48mm
Weight: 240g

Symbologies:
2D codes: PDF417, MicroPDF417, QR Code, Data Matrix ECC 200, Code 49, UCC, Composite, Aztec Mesa, Aztec, MaxiCode

1D codes:
- Code 39, Code 128, UPC, EAN, Codabar, Codablock, Code 93, RSS, Interleave 2 of 5

The following scan distances and depths of field are only approximate values. The effective attainable values of our code readers MAC 332 HD or MAC 332 ND depend on the symbols, print quality, environment and mounting condition etc.

MAC 332 HD
View area: 34 x 25mm
Reading distance: 48mm
Depth of field:
- of module size 0,17mm
  (Data Matrix, QR Code)
  min. distance 40mm
  max. distance 59mm
- of module size 0,1mm
  (1D codes)
  min. distance 40mm
  max. distance 71mm

MAC 332 ND
View area: 76 x 57mm
Reading distance: 124mm
Depth of field:
- of module size 0,38mm
  (Data Matrix, QR code)
  min. distance 48mm
  max. distance 144mm
- of module size 0,17mm
  (PDF417)
  min. distance 66mm
  max. distance 129mm
- of module size 0,127mm
  (1D codes)
  min. distance 73mm
  max. distance 106mm
- of module size 0,25mm
  (1D codes, PDF417)
  min. distance 59mm
  max. distance 193mm
- of module size 0,89mm
  (MaxiCode)
  min. distance 48mm
  max. distance 264mm

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