

Data Matrix Reader Mac 330

The Data Matrix Reader for stationary application

MAC 330 – for tasks beyond the average

The outstanding features of the Data Matrix Code made applications possible which could never be achieved using 1D bar code. These applications became addressable with the introduction of sophisticated readers such as the MAC 330, which represent particularly cost effective solutions for demanding requirements.

- ◆ Reading of laser etched or engraved codes
- ◆ Reading of exceptionally small codes
- ◆ Reading of codes dotpeened or pinstamped into glossy, curved, or irregular surfaces



*ECC 200 Data Matrix
26 x 26 Code*

- ◆ Reading of inkjet codes
- ◆ Reading of codes printed on glossy surfaces

The transfer of decoded data to host systems is very flexible. Specific protocols (for example Siemens 3964) and bus



systems have been implemented.

Discontinuous operating mode

In many automated processes, the goods are transported sequentially at very slow speeds or indexed into position. In these cases, reading can be executed in standstill mode and the Reader is not required to provide rapid decode rates.

C-MOS-Technology: high tech on the sensor front

MAC 330 uses C-MOS technology for its imaging sensor chip. This enables the

construction of a small device but that still offers a number of interesting technical features. Of special note is the possibility to directly address an individual pixel in the sensor chip's array.

Flexibility in hard- and software

Optics and illumination form a modular block that can be readily exchanged to facilitate adaptations to different requirements and circumstances. This is especially important when items of interest are coded using direct marking methods such as laser etching or mechanical dot-peening/pinstamping.

In addition to its modular front end, the MAC 330 features software with flexible routines that enable reading performance to be optimized for specific environments or operating conditions. That the internal software uses flexible routines to optimize for the specific reading environment. This enlarges the area of use by simultaneously keeping the operators interface as simple as possible.

Technical Data

Mac 330

Dimensions: 60x40x125mm
(without plug)

Weight: 300g

Scan distance: 65mm (ND),
45mm (HD)

Depth of field: +/- 10mm
when Modul size: >0,35mm

Scan area: 25mm x 16mm (ND)
16mm x 11mm (HD)

Resolution: 0,3mm

Light source: LED-Flash (white
Light); flash duration 20ms

Sensor: CMOS
Sensor resolution: 384 x 288
(256 used) Pixel
Evaluation rate: 4Hz

Reading speed: stand still or
very slow movement <1cm/sec

Data content: up to 348 numerical,
259 ASCII

Power supply: 24 Volt DC
(V min=20V, V max=30V)
Power consumption: 3W
Interfaces: RS232, RS485

In-/Output: 1 opto-coupled Trigger-input,
2 opto-coupled outputs

Videooutput: Composite Video (BAS) BWF 50HZ,
15,75Khz line-frequency

Symbol size: 10x10 bis 48x48 square,
16 x 48 rectangular

Modulsize (min): 0,35mm
Codesize (min): 2,5x2,5mm (HD),
3,2 x 3,2mm (ND)

Quiet zone: 0,6mm

Code placement: 0, 90, 180, 270 degrees;
+/- 35 degree
Character set: ASCII, C40; TEXT, X12,
EDIFACT, Base 256 nach ISO 646

error correction: ECC200 (Reed-Solomon)

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