DMG100

For a crystal clear production process

The DMG100 was developed specifically for foolproof identification of directly marked Data Matrix codes on flat, transparent surfaces like industrial plate glass, acrylic glass and plastic. The code can be engraved on the product's top or bottom and is legible without turning the item. An innovative illumination concept permits dependable identification even of internally engraved Data Matrix codes.

Together with optics specially developed for applications involving glass and plastics, the integrated, programmable LED system achieves high-contrast images using incident light without a need for transmitted light which is usually used.

The LED illumination can be adjusted in terms of various colours to allow easy and reliable identification of Data Matrix codes through coloured acrylic or plate glass. These decisive advantages greatly simplify an integration of Data Matrix reading systems into processes for the flat glass industrie.

Specific, industrially proven lighting concepts and extremely short flash times during capture allow freeze-frames of fast-moving codes in triggered applications. This guarantees maximum suppression of interference by extraneous light. A PC-based setup tool permits easy setting of the system. Software algorithms proven in practice ensure fast and reliable decoding of Data Matrix codes.

The DMG100 guarantees continuous product traceability for you and your customers to assure the required levels of transparency throughout your value-creation processes. Applications range from electronic components (LCD displays, OLED displays and solar panels) through the automotive sector to a use of flat glass in architecture and industry.

Bring transparency to your production processes today with the DMG100 Data Matrix reader for transparent surfaces.
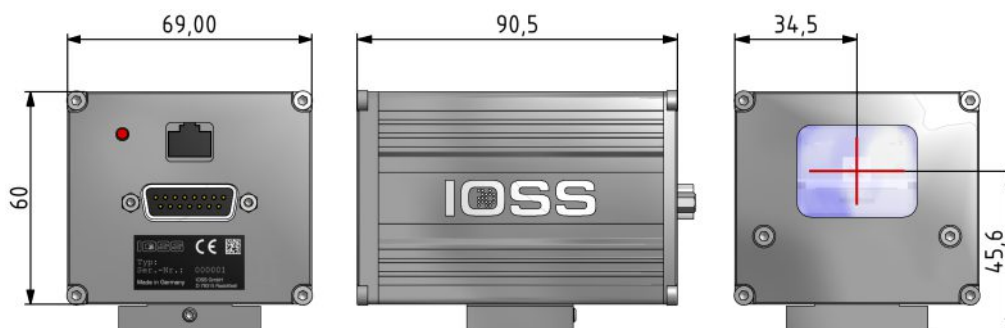
DMG100
Technical data

Application area	Reliable reading of directly marked Data Matrix ECC200 codes on flat, transparent surfaces or internal, engraved codes
Sensor technology	Progressive Scan CCD, black/white, 640 x 480 or 1024 x 768 pixels
Reading speed	Up to 20 scans/second
Motion speed	Up to 5 m/s
Reading distance	44 mm
Reading field size	32 x 25 mm
Smallest module size	Approx. 150µm, depending on marking quality
Code type	ECC 200
Code grid size	Up to 48 x 48 (square) 16 x 48 (rectangular) (larger sizes available on request)
Data capacity	Up to 348 numeric characters, up to 259 ASCII characters (higher capacities available on request)
Code orientation	Any
Ligthing	Intergrated, mulit-channel RGB LEDs
Interfaces	Ethernet, RS232, PLC lines for trigger, good/bad and busy-signals
Trigger	Via PLC, RS232 or Ethernet
Teach In	Simple configuration via graphical user interface
Dimensions	60 x 69 x 90,5 mm
Weight	Approx. 500 g
Power supply	12 - 24V DC
Temperature range	0 –40° C
Protection rating	IP54
Housing	Aluminium

Subject to change without prior notice. If you require additional information, please contact us.

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