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DATALOGIC MATRIX 300N IMAGER

OBSOLETE - Please contact vision@oem.co.uk for possible replacements

MATRIX300N712010
OBSOLETE - Please contact vision@oem.co.uk for more information



- 1.3 MP and 2 MP resolutions
- Detects 1D and 2D code types
- Upto 60 fps
- Integrated communication via Ethernet 10/100: Ethernet IP, TCP/IP, UDP, FTP, MODBUS TCP, RS232/RS422/RS485 On-board PROFINET-IO as standard

PRODUCT DESCRIPTION

The MATRIX300N has been made obsolete and superseded by MATRIX320N 2MP OR MATRIX220 X 1.2MP. Please contact vision@oem.co.uk for direct replacements.

Matrix 300N™ is the next-generation, compact imager in the Matrix family. This high resolution sensor has ultra-fast image acquisition, at 1.3 megapixel and a frame rate of 60 frames per second. The Matrix 300N™ is ultra-compact, purpose built for superior performance on high speed and Direct Part Marking (DPM) applications.

For the eletronic focus control the optical system incorporates a liquid lens module, as a result the reader offers automatic focus adjustment without the addition of moving parts.

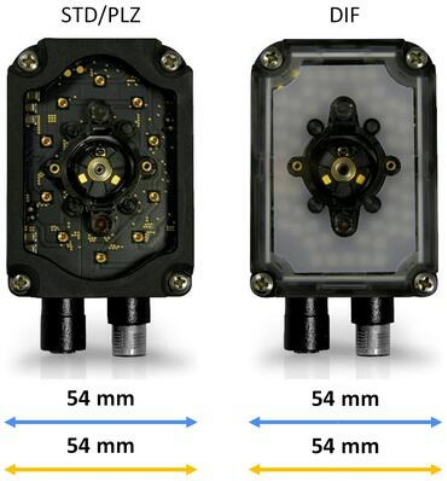
The innovative design of integrated illuminators emmbedded over the entire front surface allows for bright, uniform illumonation. Suitable for illumination on normal, etched, reflective or textured surfaces due to the lighting design using both bright and dark field patterns.

The small dimensions of the Matrix 300N™ and rotating connector makes it ideal for integrating into small, tight spaces, as well as the M12, 4 pole connections making for easy integration into existing systems.

Additionally the compact flexible design offers cost effective communication options with Power over Ethernet (POE) connection through standard ethernet connection. other connectivity options include PROFINETIO and ETHERNET/IP, eliminating external communication boxes or converters.

TECHNICAL DATA

1D Code types	Auto discriminates all standard 1D codes
2D Code Types	Aztec Code, Data Matrix, MaxiCode, Micro QR Code, QR Code, Dot Code
Colour LED	Red
Digital inputs	2
Digital outputs	3
Dimension (mm)	95 x 54 x 45
Distance max	650 mm
Distance min	20 mm
Frame rate max	45 fps
Integrated communication interface	Ethernet 10/100 Mbit/s: Ethernet IP, Modbus TCP, Profinet IO, Serial RS232/RS422FD
IP class	IP65, IP67
Material of body	Aluminium
Number of LEDs	10
Postal Code Types	Planet Code, Postnet, Royal Mail Code (RM4SCC), Japan Postal
Power consumption	6 W
Programming options	DL.CODE, Host Mode programming, X-PRESS Human Machine Interface
Readable code types	1D / Linear Codes, 2D Codes, Postal Codes
Sensor Type	CMOS
Storage temperature max	70 °C
Storage temperature min	-20 °C
Supply voltage	10-30 V DC
Temperature operational max	45 °C
Temperature operational min	0 °C
Viewing angle	9mm (H:44°, V:34°, D:54°)
Weight	250 g


STD/PLZ
DIF
54 mm
54 mm
54 mm
54 mm


STD/PLZ
DIF
75 mm
95 mm
75 mm
95 mm
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Ethernet connector
✓ Circular M12 4-pole Female Connector
✓ 10/100 Mbit/s
✓ Communication channels
○ TCP Client
○ TCP Server
○ UDP Channel
○ FTP Client
✓ Fieldbus protocols
○ EtherNet/IP
○ PROFINET IO
○ Modbus TCP Client
Power - Serial Interfaces - I/O Connector
✓ Circular M12 17-pole Male Connector
(same interface of Matrix 300N and 410N)
✓ 10-30 VDC
✓ 1 Serial Main (RS232/RS422FD up to 115.2 Kbit/s)
✓ 1 Serial AUX (RS232)
✓ ID-Net
✓ 2 Inputs
○ Opto-coupled and polarity insensitive
✓ 3 Outputs
○ Configurable NPN, PNP, PP
○ Short-circuit protected
○ Using CBX the first 2 outputs are Opto-coupled