

Ficha técnica Datalogic Matrix 210N

Extracto técnico del documento oficial Datalogic

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Documento fuente	Matrix 210N Product Reference Guide (ENG)
Páginas incluidas	167, 168
Fuente oficial	https://cdn.datalogic.com/Download?iddwnfile=21257

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APPENDIX A

TECHNICAL FEATURES

ELECTRICAL FEATURES			
	Matrix 210N Serial	Matrix 210N Ethernet	Matrix 210N USB
Power			
Supply Voltage	10 to 30 Vdc	10 to 30 Vdc	5 Vdc
Consumption	0.35 - 0.13 A, 3.9 W max.; 0.16 A @ 24 V	0.4 to 0.15 A, 4.5 W max.; 0.18 A @ 24 V	0.5 A, 2.5 W max.
Communication Interfaces			
Main: RS232, RS422 Full-duplex	2400 to 115200 bit/s	2400 to 115200 bit/s	USB2.0 up to 921600 bit/s
Auxiliary: RS232	2400 to 115200 bit/s	2400 to 115200 bit/s	
ID-NET	Up to 1 Mbaud	Up to 1 Mbaud	
Ethernet (Built-in) ^a		10/100 Mbit/s	
Inputs			
Input 1 (External Trigger) and Input 2	Opto-isolated and polarity insensitive	Opto-isolated and polarity insensitive	
Max. Voltage	30 Vdc	30 Vdc	
Max. Input Current	10 mA	10 mA	
Outputs ^b			
Output 1 and Output 2	Opto-coupled	Opto-coupled	
V _{OUT} (I _{LOAD} = 0 mA) Max.	30 Vdc	30 Vdc	
V _{OUT} (I _{LOAD} = 100 mA) Max.	1.8 Vdc	1.8 Vdc	
I _{LOAD} Max.	170 mA	170 mA	

a. For Ethernet models only. Supported application protocols: TCP/IP, Ethernet/IP, PROFINET-IO, Modbus TCP

b. When connected to the CBX connection boxes the electrical features for Output 1 and 2 become the following:

Opto-isolated; V_{CE} = 30 Vdc max.; I_{CE} = 40 mA continuous max.; 130 mA pulsed max.;

V_{CE} saturation = 1 Vdc max. @ 10 mA; P_D = 90 mW Max. @ 50 °C ambient temp.

OPTICAL FEATURES	
Image Sensor	CMOS sensor with Global Shutter
Image Format	WVGA (752x480)
Frame Rate	up to 60 frames/s @ full window size
Pitch	± 35°
Tilt	0° - 360°
Lighting System	Internal LED Illuminator to EN 62471
Aiming System	Blue Ring; for liquid lens models only: Laser Pointers IEC 60825-1 2007
*See Chapter 6, Reading Features for other optical features	

ENVIRONMENTAL FEATURES	
Operating Temperature ^a	0 to 50 °C (32 to 122 °F) for liquid lens models only: 0 to 45 °C (32 to 113 °F)
Storage Temperature	-20 to 70 °C (-4 to 158 °F)
Max. Humidity	90% non condensing
Vibration Resistance EN 60068-2-6	14 mm @ 2 to 10 Hz; 1.5 mm @ 13 to 55 Hz; 2 g @ 70 to 500 Hz; 2 hours on each axis
Bump Resistance EN 60068-2-29	30g; 6 ms; 5000 shocks on each axis
Shock Resistance EN 60068-2-27	30g; 11 ms; 3 shocks on each axis
Protection Class ^b EN 60529	IP65

- a. High ambient temperature applications should use metal mounting bracket for heat dissipation.
- b. IP54 for ESD models.

PHYSICAL FEATURES			
Dimensions	50 x 25 x 45 mm (2 x 1 x 1.8 in)	54 x 32 x 45 mm (2.1 x 1.3 x 1.8 in)	61 x 25 x 45 mm (2.4 x 1 x 1.8 in)
Weight (with cable)	204 g (7.2 oz)	190 g (6.7 oz)	237 g (8.4 oz)
Material	ZAMA	Aluminum	ZAMA / Nickel finish
Output cable length	1000 ± 15 mm (39.4 ± 0.6 in)		