

MATRIX 220™

QUICK REFERENCE GUIDE





Image Based Industrial Reader

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INSTALLATION PROCEDURE

1. Physically mount the Matrix 220 reader.
2. Make the necessary electrical connections.
3. Configure the reader using the X-PRESS interface (AIM, SETUP, LEARN and TEST for simple configuration) or the DL.CODE software configuration program (complete configuration).

HMI X-PRESS™ INTERFACE

In normal operating mode the colors and meaning of the five LEDs are illustrated in the following table:

READY (green)	indicates the device is ready to operate.
GOOD (green)	confirms successful reading.
TRIGGER (yellow)	indicates the status of the reading phase.
COM (yellow)	indicates active communication on main serial port.
STATUS (red)	indicates a NO READ result.

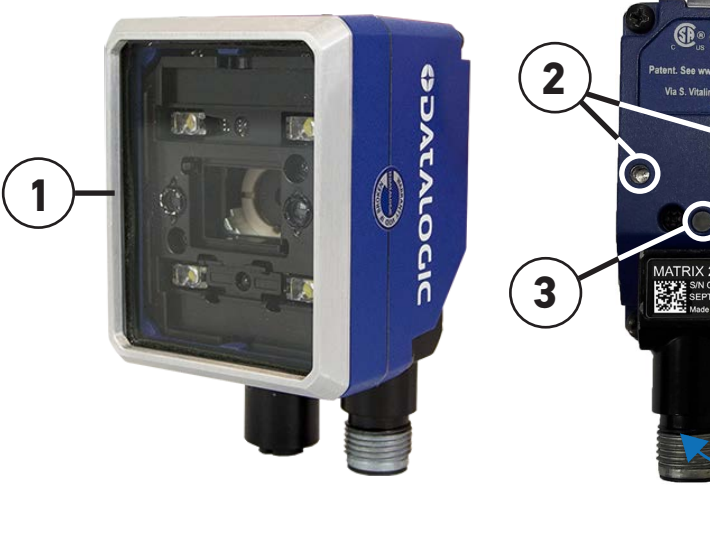
During the reader startup (reset or restart phase), all the LEDs blink for one second.



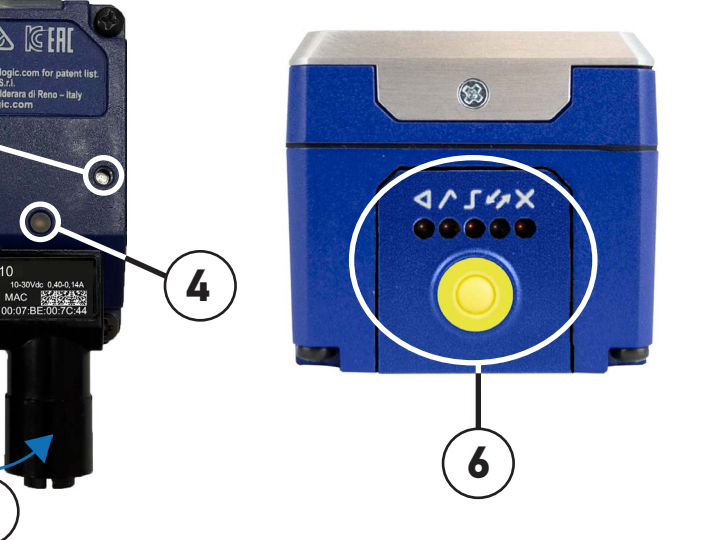
The single push button gives immediate access to the following relevant functions:

	Test Mode with bar graph visualization to check static reading performance.
	Aim turns on the LED pointers to aim the reader at the target. The target should be centered horizontally and vertically with respect to the aiming squares.
	Setup to self-optimize and auto-configure photometry parameters.
	Learn to self-detect and auto-configure for reading an unknown barcode (by type and length). Only one symbology type can be saved using this method. Performing Autolearn on a second symbology will overwrite the first one.

PRODUCT OVERVIEW



1	Reading Window (ESD model shown)
2	Bracket Mounting Holes (2)
3	Power On LED



4	Ethernet Connection LED
5	90° Rotating Connector Block
6	HMI X-PRESS™ Interface

Matrix 220 3xx-x4x

Matrix 220 3xx-x1x



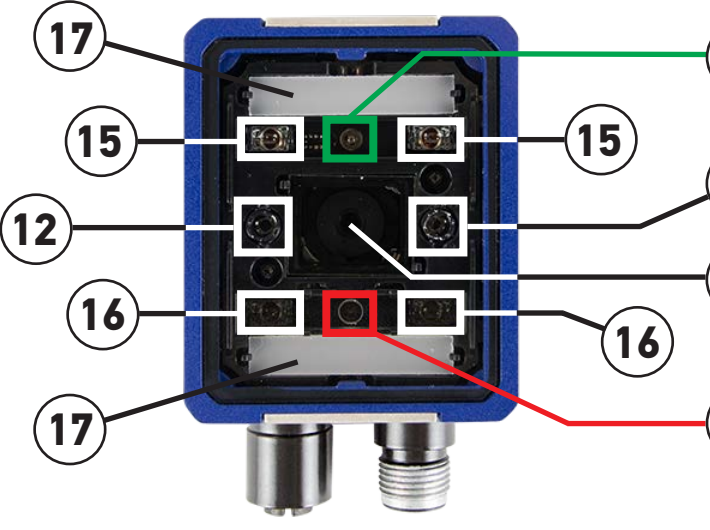
9	Power Over Ethernet Connector
10	COM, trigger Connector



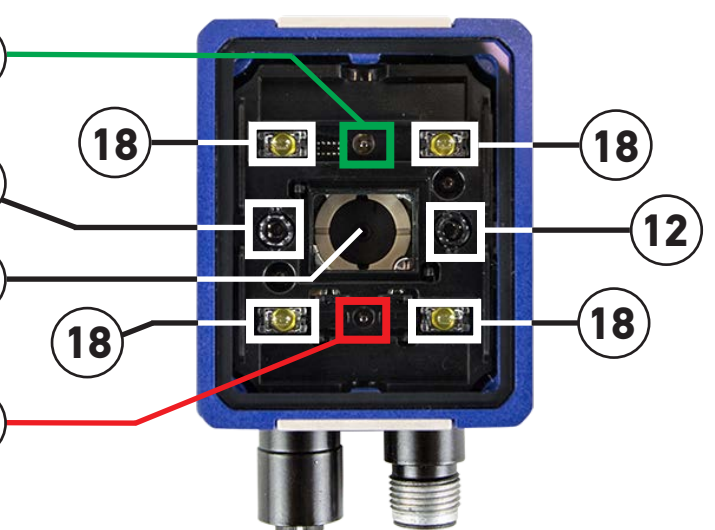
7	Ethernet Connector
8	Power - COM - I/O Connector

Matrix 220 DPM Models

Matrix 220 Standard Models



11	Lens
12	LED Aiming System
13	Red Spot (No Read)
14	Green Spot (Good Read)



15	Non Polarized Illuminators
16	Polarized Illuminators
17	Diffused Illuminators
18	Standard Illuminators (Top/Bottom)



NOTE: Consult the Product Reference Guide for complete details of all available models.

CONNECTIONS

Matrix 220 3xx-x1x models

POWER, COM and I/O connector			
M12 male 17 pin			
PIN	NAME	FUNCTION	
1	Vdc	Power supply input voltage +	
2	GND	Power supply input voltage -	
Connector Case	CHASSIS	Connector case provides electrical connection to the chassis	
6	I1A	External Trigger A (polarity insensitive)	
5	I1B	External Trigger B (polarity insensitive)	
13	I2A	Input 2 A (polarity insensitive)	
3	I2B	Input 2 B (polarity insensitive)	
9	O1	Output 1	(NPN or PNP short circuit protected and software programmable)
8	O2	Output 2	
16	O3	Output 3	
14	RX	Auxiliary RS232 RX	
4	TX	Auxiliary RS232 TX	
7	ID+	ID-NET™ network +	
15	ID-	ID-NET™ network -	
PIN	NAME	RS232	RS422 Full Duplex
17	Main Serial Port (sw selectable) (*)	TX	TX+
11		RX	RX+ (*)
12		-	TX-
10		-	RX- (*)

* DO NOT leave floating. See the PRG for connection details.

Ethernet connector		
M12 female 8 pin		
PIN	NAME	FUNCTION
1	TX+	Transmit data (positive pin)
2	TX-	Transmit data (negative pin)
3	RX+	Receive data (positive pin)
4	RX-	Receive data (negative pin)
5	N.C.	NOT CONNECTED
6	N.C.	NOT CONNECTED
7	N.C.	NOT CONNECTED
8	N.C.	NOT CONNECTED

Matrix 220 3xx-x4x models

Power Over Ethernet, COM and I/O connector		
M12 male 5 pin		
PIN	NAME	FUNCTION
1	I1A	External Trigger A (polarity insensitive)
2	RX	RS232 Main Serial Receive data signal
3	TX	RS232 Main Serial Transmit data signal
4	I1B	External Trigger B (polarity insensitive)
5	GND	RS232 Main Serial Reference signal

NOTE: PoE models do not supply power to External Trigger.

Ethernet connector		
M12 female 8 pin		
PIN	NAME	FUNCTION
1	TX+	Transmit data (positive pin)
2	TX-	Transmit data (negative pin)
3	RX+	Receive data (positive pin)
4	RX-	Receive data (negative pin)
5	DC1-	DC Power (negative pin)
6	DC2-	DC Power (negative pin)
7	DC1+	DC Power (positive pin)
8	DC2+	DC Power (positive pin)

SOFTWARE FEATURES

READABLE CODE SYBOLOGIES			
1-D and stacked		2-D	POSTAL
•PDF417 Standard and Micro PDF417 •Code 128 (GS1-128) •Code 39 (Standard and Full ASCII) •Code 32 •MSI •Standard 2 of 5 •Matrix 2 of 5 •Interleaved 2 of 5		•Data Matrix ECC 200 (Standard, GS1 and Direct Marking) •QR Code (Standard and Direct Marking) •Micro QR Code •MAXICODE •Aztec Code	•Australia Post •Royal Mail 4 State Customer •Kix Code •Japan Post •PLANET •POSTNET •POSTNET (+BB) •Intelligent Mail •Swedish Post
•DWCODE™ (DWCODE models available)			
Operating Mode			
CONTINUOUS, ONE SHOT, PHASE MODE			
Configuration Methods			
X-PRESS™ Human Machine Interface / Windows-based SW (DL.CODE™) via Ethernet / Host Mode Programming sequences sent over Serial or Ethernet TCP interfaces			
Parameter Storage			
Permanent memory (Flash)			

TECHNICAL FEATURES

	3xx-x1x	3xx-x4x
ELECTRICAL FEATURES		
Power		
Supply Voltage (Vdc)	10 to 30 Vdc	48 Vdc
Max Consumption (A)	3xx-01x: 0.40 - 0.14 (4.2 W) 3xx-11x: 0.50 - 0.17 (5.1 W)	0.10 (4.8W)
Communication Interfaces		
Main - RS232, RS422 full-duplex	2400 to 115200 bit/s	
Auxiliary - RS232	2400 to 115200 bit/s	
ID-NET™	Up to 1Mbaud	
Ethernet¹	10/100 Mbit/s	
Inputs	Opto-coupled and polarity insensitive (see PRG)	
Max Voltage	30 Vdc	
Max Input Current	10 mA	
Outputs	NPN or PNP short circuit protected (see PRG)	
V _{OUT} (I _{LOAD} = 0 mA) Max.	30 Vdc	
V _{OUT} (I _{LOAD} = 100 mA) Max.	3 Vdc	
I _{LOAD} Max	100 mA	
OPTICAL FEATURES	see Product Reference Guide for details	
PHYSICAL FEATURES		
Dimensions	H x W x L	
Std Matrix 220 connector at 0°	78 x 47 x 38 mm (3.1 x 1.9 x 1.5 in)	
Std Matrix 220 connector at 90°	58 x 47 x 58 mm (2.3 x 1.9 x 2.3 in)	
ESD Matrix 220 connector at 0°	78 x 47 x 43 mm (3.1 x 1.9 x 1.7 in)	
ESD Matrix 220 connector at 90°	58 x 47 x 63 mm (2.3 x 1.9 x 2.5 in)	
Weight	173 g. (6.1 oz.)	
Material	Aluminium with plastic protective window cover	
ENVIRONMENTAL FEATURES		
Operating Temperature²	-10 to 50 °C (14 to 122 °F) ³	
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	
Shock Resistance EN 60068-2-27	30g; 11 ms; 3 shocks on each axis	
Protection Class⁴ EN 60529	IP65 and IP67	
USER INTERFACE		
LED Indicators	Power; Ready; Good; Trigger; Com; Status; Ethernet Network; Green Spot; (see PRG for other LEDs)	
Other	X-PRESS™ Keypad Button (config. via DL.CODE™)	

1 The embedded Ethernet interface supports application protocols: TCP/IP, EtherNet/IP, Profinet IO, Modbus TCP, OPC UA.
2 High ambient temperature applications should use metal mounting bracket for heat dissipation.
3 Operating temperature is:
• 0 to 50 °C (32 to 122 °F) for the following models: 937900034, 937900035, 937900036, 937900037, 937900038, 937900039, 937900040, 937900041, 937900042
• 0 to 45 °C (32 to 113 °F) for the following models: Matrix 220 3xx-11x.
4 When correctly connected (fully tightened) to IP67 cables with seals.

COMPLIANCE

Only connect Ethernet and dataport connections to a network which has routing only within the plant or building and no routing outside the plant or building.

EMC Compliance

- In order to meet the EMC requirements:
- connect reader chassis to the plant earth ground by means of a flat cop-per braid shorter than 100 mm;
 - connect pin “Earth” of the CBX connection box to a good Earth Ground;

European Declaration of Conformity

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FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
1) This device may not cause harmful interference
2) This device must accept any interference received, including interference that may cause undesired operation.

EAC Compliance

Customs Union:
The CU Conformity certification has been achieved; this allows the Product to bear the Eurasian mark of conformity.

Power Supply

This product is intended to be installed by Qualified Personnel only.
This product is intended to be connected to a UL Listed Direct Plug-in Power Unit marked LPS or “Class 2”.

LED Safety

According to IEC 62471:2006 all models are exempt (Risk Group 0).
According to EN 62471:2008, using limits stated in the directive 2006/25/EC, all models are exempt (Risk Group 0), except model Matrix 220 3U2-01U which is Risk Group 3.
NOTE: for Matrix 220 3U2-01U, the measure of the NEAR UV radiation power complies with the Risk Group 0 limit stated by the directive 2006/25/EC only at a distance of 370 mm and farther, instead of the standardized distance of 200 mm.

PATENTS

See www.patents.datalogic.com for patent list.
This product is covered by one or more of the following patents:
Design patents: EP004735694
Utility patents: EP0996284B1, EP0999514B1, EP1014292B1, EP1128315B1, EP1396811B1, EP1413971B1, EP2517148B1, EP2649555B1, JP4435343B2, JP4571258B2, US6512218, US6616039, US6808114, US6997385, US7053954, US7387246, US7433590, US8058600, US8368000, US8888003, US8915443, US9268982, US9430689, US9798948, ZL200980163411.X

EULA

See www.datalogic.com/eula for consult the End User License Agreement.

WARRANTY

Refer to the Product Reference Guide for Warranty and additional product information.

MATRIX 220™

快速参考指南





基于图像的工业阅读器

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安装程序

1. 安装 Matrix 220 读取器。
2. 进行必要的电气连接。
3. 使用 X-PRESS 界面（瞄准、设置、学习和测试，进行简单配置）或 DL.CODE 软件配置程序（完整配置）配置读取器。

HMI X-PRESS™ 界面

下表列出了操作模式下五个 LED 指示灯的颜色和含义：

就绪（绿色）	表示装置已准备好运行。
良好（绿色）	确认读取成功。
触发器（黄色）	表示处于读取阶段状态。
COM（黄色）	表示主串行端口正在通讯。
状态（红色）	表示无读取结果。

在读取器启动阶段（重置或重启阶段），所有 LED 都将闪烁一秒。



单按钮可立即访问以下相关功能：

	带可视化条形图的测试模式，可检查静态读取性能。
	开启瞄准，LED 指示器将读取器瞄准目标。目标应在瞄准方块的水平和垂直方向上居中。
	进行设置，自行优化并自动配置光度测定参数。
	在遇到未知条形码时（通过类型和长度）进行学习来自行检测并自动配置。使用此方法只能保存一种符号类型。在另一个符号上执行自动学习时，将会覆盖第一个符号。

产品概述



1	读取窗口（所示为 ESD 型号）
2	支架安装孔（2）
3	开机 LED

4	以太网连接 LED
5	90° 旋转接头组
6	HMI X-PRESS™ 界面

Matrix 220 3xx-x4x

Matrix 220 3xx-x1x



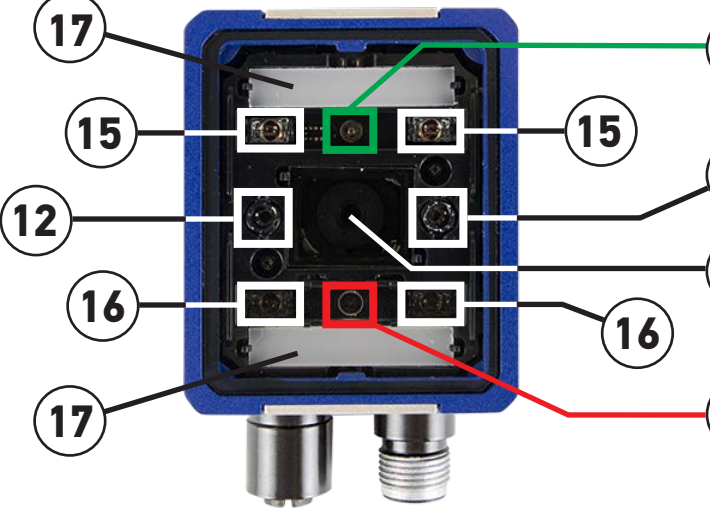
9	以太网供电接头
10	通讯，触发器接头



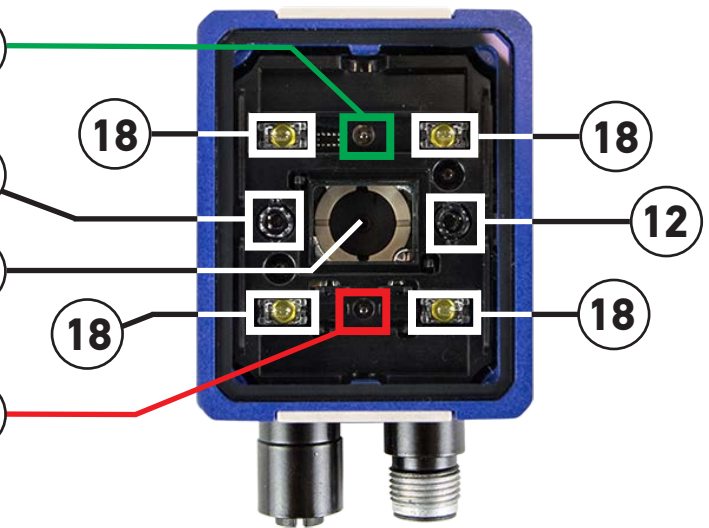
7	以太网接头
8	电源 - 通讯- I/O 接头

Matrix 220 DPM 型号

Matrix 220 标准型号



11	镜头
12	LED 瞄准系统
13	红点（无读取）
14	绿点（读取良好）



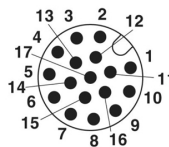
15	非偏振照明器
16	偏振照明器
17	漫射照明器
18	标准照明器（顶部/底部）



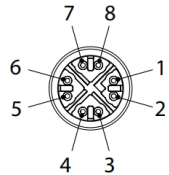
注释：关于全部可用车型的完整详细信息，请查阅《产品参考指南》。

连接

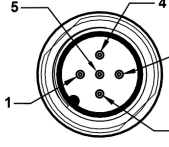
Matrix 220 3xx-x1x 型号

电源，通讯 和 I/O 接头输出引脚			
M12 公头 17 针			
			
针	名称	功能	
1	Vdc	电源输入电压 +	
2	GND	电源输入电压 -	
连接器外壳	底架	连接器外壳可为底架提供电气连接	
6	I1A	外部触发器 A（偏振光不敏感）	
5	I1B	外部触发器 B（偏振光不敏感）	
13	I2A	输入 2 A（偏振光不敏感）	
3	I2B	输入 2 B（偏振光不敏感）	
9	O1	输出 1	（采用 NPN 或 PNP 短路保护且可通过软件编程）
8	O2	输出 2	
16	O3	输出3	
14	RX	辅助 RS232 RX	
4	TX	辅助 RS232 RS232 TX	
7	ID+	ID-NET™ 网络 +	
15	ID-	ID-NET™ 网络 -	
针	名称	RS232	RS422 全双工
17	主串行端口 （可通过软件选择）（*）	TX	TX+
11		RX	RX+（*）
12		-	TX-
10		-	RX-（*）

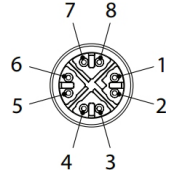
* 请勿浮动连接。请参阅参考手册获取连接详细信息。

以太网接		
M12 母头 8 针		
		
针	名称	功能
1	TX+	发送数据（正引脚）
2	TX-	发送数据（负引脚）
3	RX+	接收数据（正引脚）
4	RX-	接收数据（负引脚）
5	N. C.	未连接
6	N. C.	未连接
7	N. C.	未连接
8	N. C.	未连接

Matrix 220 3xx-x4x 型号

通讯，触发器接头输出引脚（PoE 型号）			
M12 公头 5 针			
			
针	名称	功能	
1	I1A	外部触发器 A（偏振光不敏感）	
2	RX	RS232 主串行：接收数据信号	
3	TX	RS232 主串行：发送数据信号	
4	I1B	外部触发器 B（偏振光不敏感）	
5	GND	RS232 主串行：参考信号	

 注释：PoE 型号不支持外部触发器电源。

以太网接			
M12 母头 8 针			
			
针	名称	功能	
1	TX+	发送数据（正引脚）	
2	TX-	发送数据（负引脚）	
3	RX+	接收数据（正引脚）	
4	RX-	接收数据（负引脚）	
5	DC1-	直流电源（负引脚）	
6	DC2-	直流电源（负引脚）	
7	DC1+	直流电源（正引脚）	
8	DC2+	直流电源（正引脚）	

软件特征

可读取代码符号				
一维和堆叠		二维	邮政	Digimarc Barcode
•PDF417 Standard 和 Micro PDF417 •Code 128 (GS1-128) •Code 39 (Standard 和Full ASCII) •Code 32 •MSI •Standard 2 of 5 •Matrix 2 of 5 •Interleaved 2 of 5		•Codabar •Code 93 •Pharmacode • EAN-8/13 - UPC-A/E (包括 Addon 2 和 Addon 5) •GS1 DataBar 系列 •Composite Symbolologies	•Data Matrix ECC 200 (Standard,GS1 和 Direct Marking) •QR Code (Standard 和 Direct Marking) •Micro QR Code •MAXICODE •Aztec Code	•DWCODE™ (DWCODE 型号可用)
操作模式				
连续，单次，相位模式				
配置方法				
X-PRESS™ 人机交互界面；通过以太网使用基于 Windows 的软件（DL.CODE™）；通过串行或以太网 TCP 接口发送 Host Mode Programming 序列				
参数存储				
固定存储器（闪存）				

技术特征

3xx-x1x		3xx-x4x
电气特征		
电源		
电源 (Vdc)	10 至 30 Vdc	48 Vdc
最大消耗电流 (A)	3xx-01x:0.40-0.14 (4.2W) 3xx-11x:0.50-0.17 (5.1W)	0.10 (4.8W)
通信接口		
主接口-RS232, RS422 全双工	2400 至 115200 bit/s	
辅助接口-RS232	2400 至 115200 bit/s	
ID-NET™	最高1 兆波特 (Mbaud)	
以太网¹	10/100 兆字节/秒	
输入：	光耦合且偏振光不敏感（请参阅用户手册）	
最大电压	30 Vdc	
最大输入电流	10 mA	
输出：	采用 NPN 或 PNP 短路保护（请参阅用户手册）	
V _{OUT} (I _{LOAD} = 0 mA) Max.	30 Vdc	
V _{OUT} (I _{LOAD} = 100 mA) Max.	3 Vdc	
I _{LOAD} Max	100 mA	
光学特征	（请参阅产品参考指南获取详细信息）	
物理特征		
尺寸	高 x 宽 x 长	
标准 Matrix 220 接头 (0°)	78 x 47 x 38 mm (3.1 x 1.9 x 1.5 in)	
标准 Matrix 220 接头 (90°)	58 x 47 x 58 mm (2.3 x 1.9 x 2.3 in)	
ESD Matrix 220 连接器 (0°)	78 x 47 x 43 mm (3.1 x 1.9 x 1.7 in)	
ESD Matrix 220 连接器 (90°)	58 x 47 x 63 mm (2.3 x 1.9 x 2.5 in)	
重量	173 g. (6.1 oz.)	
材料	铝制，带塑料玻璃保护罩	
环境特征		
工作温度²	-10 至 50 ° C (14 至 122 ° F) ³	
储存温度	-20 至 70 ° C (-4 至158 ° F)	
最大湿度	90%（无冷凝）	
抗振性EN 60068-2-6	14 mm (2 至 10 Hz)；1.5 mm (13 至 55 Hz)； 2 g (70 至 500 Hz)；每轴 2 小时	
抗冲击性EN 60068-2-27	30g; 11 ms; 每轴 3 次冲击	
防护等级⁴ EN 60529	IP65 和 IP67	
用户界面		
LED 指示灯	电源；就绪，良好，触发器，通讯，状态；以太网；绿点；	
其他	（请参阅产品参考指南，获取其他 LED 信息）	
	X-PRESS™ 键盘按钮（可通过 DL.CODE™ 配置）	

- 1 嵌入式以太网接口支持的应用协议：TCP/IP, EtherNet/IP, Profinet IO, Modbus TCP, OPC UA.
- 2 在高环境温度应用场合下，应使用金属安装支架，以便散热
- 3 工作温度为：
- 0至50℃（32至122° F）对于以下型号：937900034, 937900035, 937900036, 937900037, 937900038, 937900039, 937900040, 937900041, 937900042.
 - 0至45℃（32至113° F）对于以下型号：Matrix 220 3xx-11x.
- 4 当使用密封圈正确连接（完全拧紧）至 IP67 电缆时

符合性

以太网和数据端口连接仅可连接到工厂或建筑物内具有路由且在工厂或建筑物外部没有路由的网络。

EMC 符合性

- 为满足 EMC 要求：
- 通过长度小于 100 mm 的铜编织线将读取器底架连接至工厂接地；
 - 将 CBX 接线盒的“接地”引脚连接至良好的接地端；

电源

本产品仅供合格人员安装。

本产品旨在连接到标有 LPS 或“2 类”的 UL 认证直接插入式电源装置。

LED 安全性

根据 IEC 62471:2006，所有型号均获得豁免（危险等级 0）。

根据 EN 62471:2008，使用指令 2006/25/EC 中规定的限制，除 Matrix 220 3U2-01U 型号外（危险等级 3）的所有型号均获得豁免（危险等级 0）。

注释：对于 Matrix 220 3U2-01U，近紫外线发射功率的测量值仅在 370 毫米或更远的距离（而不是 200 毫米的标准距离）才符合指令 2006/25/EC 规定的危险等级 0 的限值。

有害物质物质或元素		多溴二苯醚 Polybrominated diphenyl ethers (PBDE)	多溴联苯 Polybrominated biphenyls (PBB)	六价铬 Hexavalent Chromium (Cr(VI))	镉 Cadmium (Cd)	汞 Mercury (Hg)	铅 Lead (Pb)
		○	○	○	○	○	×
Matrix 220		PCB 和汞含量限制					
PART	PCB Assembly Scan Engine Assembly Laser	本表格依据 SJ/T 11364 的规定编制。 ○ 表示该有害物质在所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。 × 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。					

专利

有关专利列表，请参阅 www.patents.datalogic.com

该产品受以下一项或多项专利保护：

设计专利：EM002486514, EM015009660, GB9002486514 0001/0003, USD743397, USD800120, ZL201430537609.3

实用专利：DE202015004175, EP2517148B1, EP2616988B1, EP2649555B1, EP2795534B1, EP3016028B1, EP3092597B1, IT0282308, US10133895, US10796117, US7433590, US8245926, US8888003, US8915443, US9122939, US9355292, US9361503, US9430689, US9798948, ZL200980163411.X, ZL201080071124.9, ZL201180044793.1, ZL201280010789.8, ZL201480072926.X

最终用户许可协议

要查阅《最终用户许可协议》，请访问 www.datalogic.com/eula。

保修

关于产品保修及其他产品信息，请查阅《产品参考指南》。