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# DATALOGIC DS2100N LASER SCANNER

Industrial Laser Scanner

DS2100N-1304
Standard resolution, Ethernet, Linear, High performance


- Maximum Resolution Up To 0.12mm
- Scan rate 500 to 1000 Scans/sec
- Multilabel Reading
- Advanced Code Reconstruction

**PRODUCT DESCRIPTION**

DS2100N has been developed for ease of use, while at the same time offering outstanding read performance. DS2100N is equipped with the innovative X-PRESS™ interface which facilitates installation and maintenance. Together with the high-performance optics and built-in code reconstruction, ACB™, high read capacity is guaranteed.

X-PRESS™ Datalogic's innovative X-PRESS™ interface is designed to simplify and facilitate installation and maintenance. Status and diagnostic information are displayed clearly on the reader by means of 5 LEDs. The multifunction button on the reader allows easy calibration of settings such as read range, read distance and code learning.

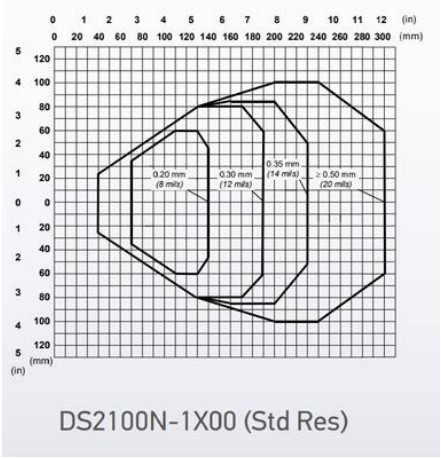
ACB™ (Advanced Code Builder)
Advanced Code Builder permits reading of damaged codes by linking together two parts of a code. ACB™ is effective when you want to read low-height codes, damaged codes and poorly printed codes.

Genius™
Windows-based configuration program which offers a simple way of installing the reader and using functions such as remote control, software update or diagnostic control.

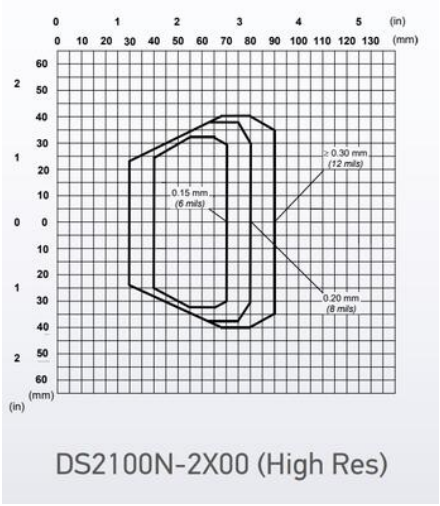
## TECHNICAL DATA

| | |
|---|---|
| **1D Code types** | Code 2/5, Code 39, Code 93, Code 128, EAN128, Codabar, Pharmacode, Plessey, ISBT128, UPC/EAN |
| **Digital inputs** | 2 |
| **Digital outputs** | 2 |
| **Dimension (mm)** | 104 x 69 x 38 |
| **Distance max** | 300 mm |
| **Distance min** | 50 mm |

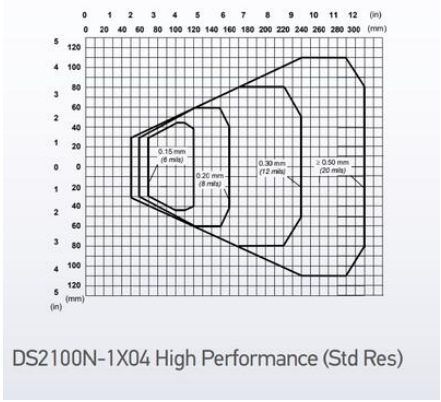
| | |
|---|---|
| **Integrated communication interface** | EtherNet/IP, Ethernet TCP/IP, RS232/RS422/RS485, Aux RS232, ID-NET RS485 |
| **IP class** | IP65 |
| **Material of body** | Aluminium |
| **Multi label reading** | Yes |
| **Optics** | Linear |
| **Power consumption** | 4 W |
| **Programming options** | X-PRESS™ Human-machine interface, Genius™ (windows based) SW |
| **Read speed** | 1000 |
| **Readable code types** | 1D / Linear Codes |
| **Resolution** | 0.12mm |
| **Supply voltage** | 10-30 V DC |
| **Temperature operational max** | 45 °C |
| **Temperature operational min** | 0 °C |
| **Weight** | 281 g |



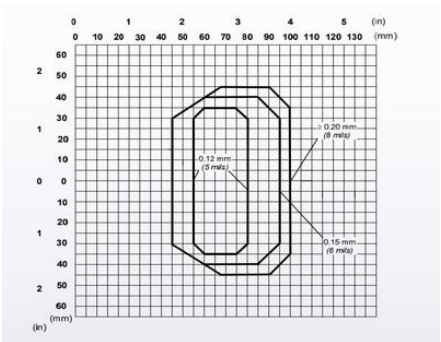
DS2100N-1X00 (Std Res)



DS2100N-2X00 (High Res)



DS2100N-1X04 High Performance (Std Res)



DS2100N-2X04 High Performance (High Res)

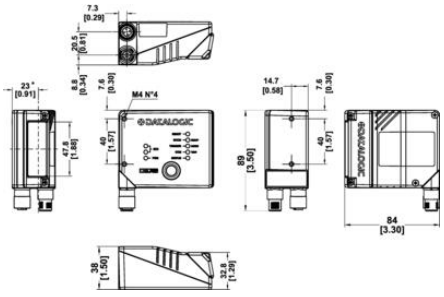




Figure 97 - M12 D-Coded 4-pin Female Profinet-IO Network Connector

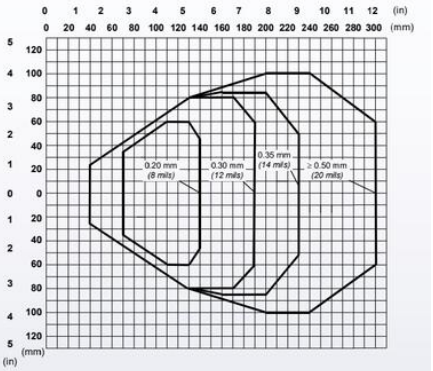
| On-Board Ethernet Network Connector Pinout | | |
|---|---|---|
| **Pin** | **Name** | **Function** |
| 1 | TX + | Transmitted data (+) |
| 2 | RX + | Received data (+) |
| 3 | TX - | Transmitted data (-) |
| 4 | RX - | Received data (-) |

**POWER**

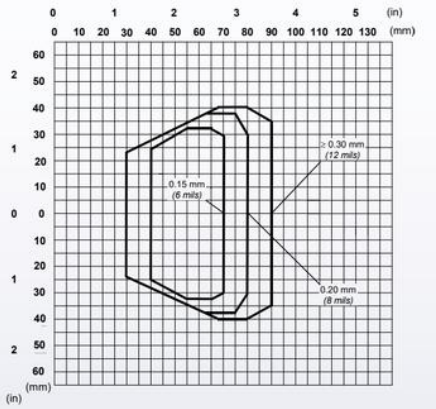

Figure 98 - M12 A-Coded 5-pin Male Power Connector

| Power Connector Pinout | | |
|---|---|---|
| **Pin** | **Name** | **Function** |
| 1 | Vdc | Power supply input voltage + |
| 2 | NC | Not Connected |
| 3 | GND | Power supply input voltage - |
| 4 | NC | Not Connected |
| 5 | NC | Not Connected |

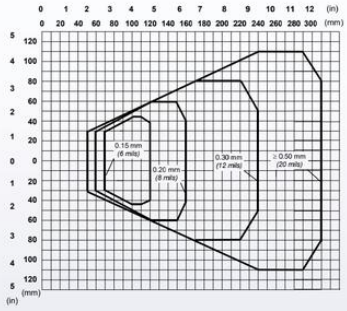
The CS-A1-02 or AS-I accessory power cables can be used to connect to the power source.



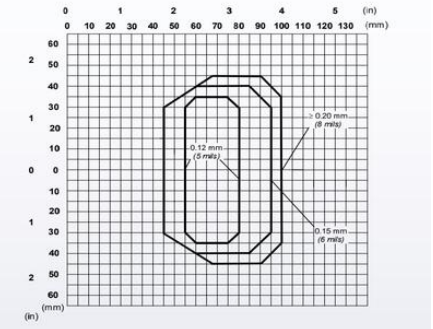

DS2100N-1X00 (Std Res)




DS2100N-2X00 (High Res)




DS2100N-1X04 High Performance (Std Res)




DS2100N-2X04 High Performance (High Res)


Figure 97 - M12 D-Coded 4-pin Female Profinet-IO Network Connector

| On-Board Ethernet Network Connector Pinout | | |
|---|---|---|
| **Pin** | **Name** | **Function** |
| 1 | TX + | Transmitted data (+) |
| 2 | RX + | Received data (+) |
| 3 | TX - | Transmitted data (-) |
| 4 | RX - | Received data (-) |

**POWER**


Figure 98 - M12 A-Coded 5-pin Male Power Connector

| Power Connector Pinout | | |
|---|---|---|
| **Pin** | **Name** | **Function** |
| 1 | Vdc | Power supply input voltage + |
| 2 | NC | Not Connected |
| 3 | GND | Power supply input voltage - |
| 4 | NC | Not Connected |
| 5 | NC | Not Connected |

The CS-A1-02 or AS-I accessory power cables can be used to connect to the power source.