



DS4300

High performance laser scanner

FEATURES

- **ACR™ 2nd generation code reconstruction**
- **Real time decoding with new DSP**
- **Scanning speed up to 1300 scan/sec**
- **Reading distance up to 400 mm**
- 2 software programmable serial interfaces
- 2 software programmable outputs
- **WINHOST™** programming
- IP65 protection class

APPLICATIONS

- Omni-directional reading
 - Small conveyor sorting
 - Process control
- Poor quality bar code reading
 - Items and parts tracking
 - Packaging machines
- High speed reading
 - Automatic document handling
 - On-line printing verification
 - Chemical and biomedical analysis machines

GENERAL DESCRIPTION

The Datalogic **DS4300** sets new standards in the compact laser scanner arena. For the first time, Datalogic introduces its powerful **ACR™** (Advanced Code Reconstruction) 2nd generation technology in a compact and low cost device.

Superior reading performance, real time ultra fast decoding and **ACR™** code reconstruction make the **DS4300** a device that satisfies the most demanding applications involving the reading of codes up to 400 mm away. **ACR™** technology carries out real time bar code image reconstruction and decoding, allowing the reading of non-oriented labels placed in various positions on objects. This code reconstruction capability also dramatically enhances the readability of poorly printed or damaged codes.

Powerful real time DSP architecture allows high performance reading of fast moving bar codes, providing exceptional price/performance solutions for the fastest and most sophisticated applications.

The **DS4300** is fully programmable through the powerful and user-friendly **WINHOST™** software, increasing system flexibility and allowing fast and easy 'plug-and-play' installation.

Thanks to an unique mix of edge reading and decoding performance, compact dimensions, great flexibility, low cost and well-known Datalogic quality, the **DS4300** offers major advantages in many sectors, including OEM high performance applications and demanding materials handling operations.

Due to its robust industrial characteristics, the **DS4300** also guarantees high reliability under the most adverse industrial conditions.



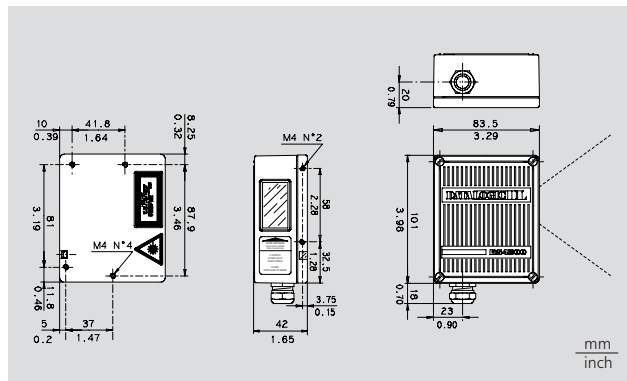
MODELS AND ACCESSORIES

| MODEL | DESCRIPTION | ORDER NO. |
|--------------------|---|-----------|
| DS4300-1000 | ST RES., RS232+RS232/RS485, ACR™, Connector | 930301000 |
| DS4300-1001 | ST RES., RS232+RS232/RS485, ACR™, Junction box | 930301010 |
| ACCESSORIES | | |
| PG110/DVE-1212A | Power block (110 Vac) | B9751057 |
| PG220/DVE-1212A | Power block (220 Vac) | B9751027 |
| C-BOX 100 | Passive connection box | 93ACC1510 |
| C-BOX 200 | Active connection box | 93ACC1520 |
| GFC-41 | 90° reading device | 910081000 |
| OM4000 | Industrial oscillating mirror | 93A251030 |
| INT-24 | 20 mA C.L. active interface board DS4300/DS4600 | 93A151000 |

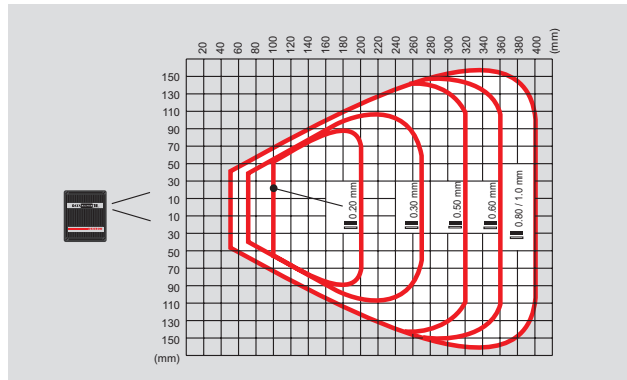
SPECIFICATIONS

| | |
|-----------------------|--|
| POWER SUPPLY | 10 to 30 Vdc |
| POWER CONSUMPTION | 5 W |
| LIGHT SOURCE | Visible Laser Diode (650 nm) |
| MAX. RESOLUTION | 0.15 mm (6 mils) |
| SCAN RATE | 800 (1300) scans/sec |
| MAX. READING DISTANCE | 400 mm (15.7 in.) |
| MAX. DEPTH OF FIELD | 350 mm (13.8 in.) |
| MAX. READING FIELD | 320 mm (12.6 in.) |
| APERTURE ANGLE | 60 degrees |
| READABLE CODES | Most popular standards incl. 2/5 family, Code 39, Code 93, Code 128, EAN/UPC, EAN 128 |
| MULTILABEL READING | Up to 6 different codes in the same presence sensor phase |
| SERIAL INTERFACES | One RS232, one SW programmable RS232 / RS485 Multidrop |
| BAUD RATE | Up to 115.2 Kbauds on both serial ports |
| INPUT SIGNAL | 'Presence sensor' plus 2 programmable inputs (Optocoupled NPN/PNP transistor) |
| OUTPUT SIGNALS | 2 fully programmable digital outputs (Optocoupled NPN transistor open collector and emitter) |
| PROGRAMMING METHOD | Through a serial interface (Winhost™ configuration program) |
| OPERATING MODES | 'On line', 'Serial On line', 'Automatic', 'Test' |
| LED INDICATORS | 'Ready', 'Reading phase active', 'Label present', 'Data transmit' |
| LASER CLASSIFICATION | IEC 825 Class 2 |
| LASER CONTROL | Security system to turn laser Off in case of motor slow down or failure |
| DIMENSIONS | 101 x 83.5 x 42 mm (3.98 x 3.29 x 1.65 in.) |
| WEIGHT | 800 g (28.2 oz.) approx. |
| CASE MATERIAL | Cast aluminium |
| OPERATING TEMPERATURE | 0 to 40 °C (32 to 104 °F) |
| STORAGE TEMPERATURE | -20 to 70 °C (-4 to 158 °F) |
| HUMIDITY | 90% non condensing |
| VIBRATION RESISTANCE | IEC 68-2-6 test FC 1.5 mm; 10 to 55 Hz; 2 hours on each axis |
| SHOCK RESISTANCE | IEC 68-2-27 test EA 30 G; 11 ms; 3 shocks on each axis |
| PROTECTION CLASS | IP65 |

DIMENSIONS



READING DIAGRAM



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We reserve the right to make modifications and improvements

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