DS1100 Ultra Compact Cost-effective Laser Scanner



General Description

Datalogic's **DS1100** offers the best cost-effective industrial solution for OEM applications.

Specifically designed for easy integration into OEM equipment, the **DS1100** provides very compact dimensions, light weight and, obviously, Datalogic's recognized excellent scanning performance.

Many applications and customers' needs have been analyzed and taken into great consideration during the **DS1100** product development. Thanks to these studies, direct and 90° output window versions have the same compact dimensions, allowing very flexible installation. The motor can be switched off and on via software commands, in accordance with application needs, increasing product life and silence during use. Set-up procedures are very easy to follow so the scanner can be quickly configured through WINHOST[™], the intuitive set-up software.

The **DS1100** covers a wide reading area, scans very close to the output window and grants optimized performance on high resolution codes, thanks to a full range of specific models.

The perfect combination of a powerful RISC decoder with reliable decoding algorithms and impressive optical performance assure the highest read rate and accuracy even on damaged or poorly printed bar codes.

Integration and connection with existing control systems, PCs or PLCs, is very easy using the two high speed serial interfaces. Multi-point scanning configurations are available using Master-Slave or Multiplexer connections.

The **DS1100** is equipped with IP65 rugged industrial housing and is also available as an embedded module for specific applications.

Features

- > Scanning speed of 500 scans/s
- > Motor on/off software commands
- > Cost-effective
- > Very compact dimensions for both direct/90° reading window models
- > Wide reading width at a short reading distance
- > Lightweight <100 g (<3.53 oz)
- Dual high speed serial interface (RS232/RS485)

Applications

- > Chemical and blood analyzers
- > Pharmaceutical code verifiers
- > Automatic teller machines (ATMs)
- > Printing machines
- > Video rental machines
- > Film processing machines
- > Assembly lines
- > Work-in-process & Quality control



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Specifications

Dimensions



POWER SUPPLY POWER CONSUMPTION

MECHANICAL CHARACTERISTICS

WEIGHT (without cable) CASE MATERIAL

PERFORMANCE

LIGHT SOURCE SCANNING SPEED MAX. RESOLUTION 1xxx models 2xxx models MAX. READING DISTANCE 1xxx models 2xxx models MAX. DEPTH OF FIELD 1xxx models 2xxx models APERTURE ANGLE RASTER APERTURE READABLE CODES

MULTILABEL READING COMM. INTERFACES BAUD RATE INPUT SIGNALS

OUTPUT SIGNALS PROGRAMMING METHOD OPERATING MODES MOTOR CONTROL LED INDICATORS LASER CLASSIFICATION LASER CONTROL

ENVIRONMENT

OPERATING TEMPERATURE STORAGE TEMPERATURE HUMIDITY VIBRATION RESISTANCE SHOCK RESISTANCE PROTECTION CLASS 5 VDC $\pm 5\%$ (4 to 30 VDC with converter) 1.5 W

<100 g (<3.53 oz) Magnesium (body) + Polycarbonate (cover)

Visible laser diode (650 nm) 500 scans/s

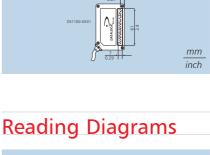
0.20 mm (8 mils) 0.12 mm (5 mils)

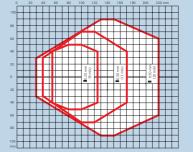
220 mm (8.7 in) on 0.50 mm (20 mils) code res. 110 mm (4.3 in) on 0.30 mm (12 mils) code res.

190 mm (7.5 in) on 0.50 mm (20 mils) code res. 100 mm (3.7 in) on 0.30 mm (12 mils) code res. 70 degrees 15 mm (0.6 in) at 220 mm (8.7 in) Code 2/5, Code 39, Code 93, Code 128, EAN/UPC, EAN 128, Codabar, Plessey, Pharmacode Up to 6 different codes in the same reading phase RS232+RS485 half duplex Up to 115,200 bauds One programmable digital input and One External Trigger digital input Two programmable digital outputs Via serial port (WINHOST[™]) 'On line', 'Serial On-line', 'Automatic', 'Test' Motor on/off software commands 'Power On', 'Ext Trigger', 'Laser On', 'Good Read', 'Tx Data' IEC 825-1 Class 2; CDRH Class II Security system to turn laser off in case of motor slow down or failure

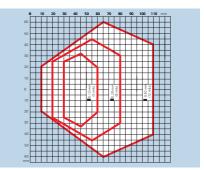
0 to 45 °C (32 to 113 °F) -20 to 70 °C (-4 to 158 °F) 90% non condensing IEC 68-2-6 test FC 1.5 mm; 10 to 55 Hz; 2 hours on each axis IEC 68-2-27 test EA 30 G; 11 ms; 3 shocks on each axis IP65







Standard resolution models



High resolution models



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Datalogic Communication Division Printed in Italy in July 2003

