DS1100

Applications

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, lightweight (<100 g), and reliability.

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 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 powerful ASCII decoders with reliable decoding.

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 very easy to follow so the scanner can be quickly configured through WINHOST™, the intuitive set-up software. Several unattended scanning systems and connection with existing control systems, PCs or PLCs, is very easy using the two high speed serial interfaces. Multi-point scanning configurations are very easy to follow so the scanner can be quickly configured through WINHOST™, the intuitive set-up software.

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

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

Features

- Work-in-process & quality control
- Assembly lines
- In-process measurement
- Video verification
- Printing machines
- Automatic feeder machines (ATMS)
- Premachined code readers
- Chemical and food analyzers
- Scanning speed of 500 scans/s
- Motor on/off software commands
- Cost-effective
- Very compact dimensions for both direct/90° models
- Wide reading area at a short reading distance
- Lightweight (<100 g)
- Dual high speed serial interface (RS232/RS485)
- Unattended Scanning Systems

Applications

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

DS1100 offers the best cost-effective industrial solution for OEM applications.
DS1100
Ultra Compact Cost-effective Laser Scanner

Unattended Scanning Systems

Electrical Characteristics

Power Supply: 5 VDC ±5% (4 to 30 VDC with converter)
Power Consumption: 1.5 W

Mechanical Characteristics

Weight (without cable): <100 g (<3.53 oz)
Case Material: Magnesium (body) + Polycarbonate (cover)

Performance

Light Source: Visible laser diode (650 nm)
Scanning Speed: 500 scans/s
Max. Resolution:
- 1xxx models: 0.20 mm (8 mils)
- 2xxx models: 0.12 mm (5 mils)
Max. Reading Distance:
- 1xxx models: 220 mm (8.7 in) on 0.50 mm (20 mils) code res.
- 2xxx models: 110 mm (4.3 in) on 0.30 mm (12 mils) code res.
Max. Depth of Field:
- 1xxx models: 190 mm (7.5 in) on 0.50 mm (20 mils) code res.
- 2xxx models: 100 mm (3.7 in) on 0.30 mm (12 mils) code res.
Aperture Angle: 70 degrees
Raster Aperture: 15 mm (0.6 in) at 220 mm (8.7 in)
Multilabel Reading: Up to 6 different codes in the same reading phase

Communication Interfaces:
- RS232 + RS485 half duplex
- Baud Rate: Up to 115,200 bauds
- Input Signals: One programmable digital input and One External Trigger digital input
- Output Signals: Two programmable digital outputs
- Programming Method: Via serial port (WINHOST™)
- Operating Modes: ‘On line’

Laser Characteristics

Laser Control: Security system to turn laser off in case of motor slow down or failure

Environment

Operating Temperature: 0 to 45 °C (32 to 113 °F)
Storage Temperature: -20 to 70 °C (-4 to 158 °F)
Humidity: 90% non-condensing
Vibration: 0.5 G (10 Hz to 500 Hz, 1 minute)
Shock Temperature: 100 G (each axis, 2 hours)
Weight: 0.07 kg

Protection Class: IP65

Reading Diagrams

Dimensions

Effective Laser Scanner
Ultra Compact Cost

Unattended Scanning Systems

Specifications

Dimensions

Effective Laser Scanner
Ultra Compact Cost