General Description

The new Datalogic DS4600A is an industrial fixed positioned bar code reader specifically designed for the needs of the manufacturing industry.

As a result of the improved optic, the new DS4600A has a very good reading field width at the minimum distance and gives great reading performance on low contrast bar codes. This industrial scanner is available in three versions: the high density model, the medium range model and the long range version. The latter features a maximum reading distance of 1,000 mm.

The DS4600A is based on a real time decoder, with a powerful RISC processor, capable of providing exceptional price/performance solutions for the fastest and most sophisticated applications.

The DS4600A features a new auto learning function: the most suitable configuration is automatically achieved by simply positioning a bar code label in front of the scanner. As a result of the auto learning function, the DS4600A can be easily adjusted on the application without the need of a deep knowledge of barcode technology.

The DS4600A has got a practical display with keypad that both increase the scanner easiness of use by showing bar code data read (local echo), statistics data and running the autolearning function (no PC is needed).

The DS4600A is available on demand with an internal heater, which makes the scanner particularly suitable to work inside cold environments.

The outstanding reading characteristics and the extreme easy of use and flexibility of the DS4600A make this scanner suitable for a wide range of applications in the manufacturing industry, including automated warehousing, shop floor, data collection and WIP tracking.

With the DS4600A state-of-the-art technology Datalogic reinforces its leadership in the design, manufacture and distribution of bar code reading systems.

Features

- Reading distance up to 1,000 mm
- Display and keypad
- Auto learning function
- Real time decoder
- Good reading performances on very low contrast bar codes
- Oscillating mirror available
- Internal heater for cold environments

Applications

- Automated warehousing
  - Conveyor sorting
  - Label verification
  - Picking systems
- Automated shop floor
  - Items and parts tracking
  - Packaging
  - Compliance
Specifications

ELECTRICAL CHARACTERISTICS
- Power Supply: 10 to 30 Vdc
- Power Consumption: 6 W max.

MECHANICAL CHARACTERISTICS
- 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

PERFORMANCE
- Light Source: Visible Laser Diode (658 nm)
- Max. Resolution: 0.2 mm (8 mils)
- Scan Rate: 800 scans/s
- Max. Reading Distance: see diagrams
- Max. Depth of Field: see diagrams
- Max. Reading Field: see diagrams
- 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 (both serial interfaces)
- 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), or through auto-learning function
- Operating Modes: 'On line', 'Serial On line', 'Automatic', 'Test'
- LED Indicators: 'Ready', 'Reading phase active', 'Good read', 'Data transmit'
- Display: Local echo, reading statistics

ENVIRONMENT
- Operating Temperature: 0 to 40 °C (50°C for 22X0 versions) (32 to 104/130 °F), -30 to 40 °C (-22 to 104 °F) internal heater versions
- 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

Reading Diagrams

High Density model (in reference to DS4600A-2200)

Medium Range model (in reference to DS4600A-2000)

Long Range model (in reference to DS4600A-2100)