

DS4600A

Standard Version

High Performance Compact
Laser Scanner

DATALOGIC™



Unattended Scanning Systems

General Description

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

As a result of improved optics, the 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 an self-learning function: the most suitable configuration is automatically achieved by simply positioning a bar code label in front of the scanner. As a result, the DS4600A can be easily adjusted on the application without the need of specific knowledge regarding bar code technology.

The DS4600A is provided with a practical display with keypad that increase the scanner ease of use by showing bar code data read (local echo), statistics data and running the self-learning 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 extreme ease 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 scan/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
 LASER CLASSIFICATION IEC 825 Class 2
 LASER CONTROL Security system to turn laser Off in case of motor slow down or failure

ENVIRONMENT

OPERATING TEMPERATURE 0 to 40 °C (32 to 104 °F) for 2XX0 versions
 -30 to 40 °C (-22 to 104 °F) for 2XX5 versions

STORAGE TEMPERATURE -20 to 70 °C (-4 to 158 °F)

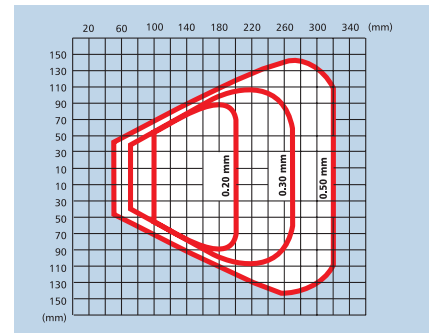
HUMIDITY 90% non condensing

VIBRATION RESISTANCE IEC 68-2-6 test FC 1.5 mm; 10 to 55 Hz; 2 hours on each axis

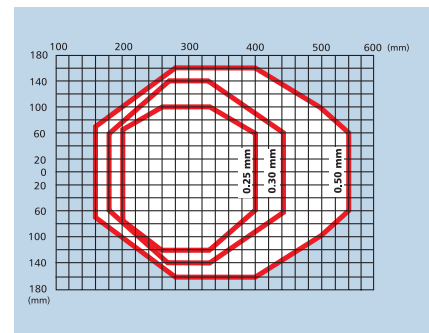
SHOCK RESISTANCE IEC 68-2-27 test EA 30 G; 11 ms; 3 shocks on each axis

PROTECTION CLASS IP65

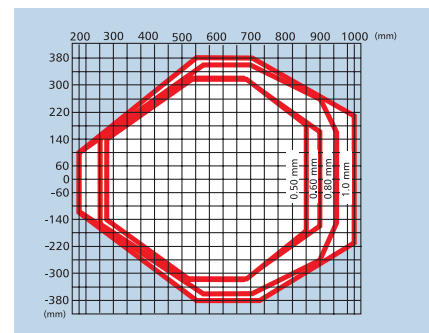
Reading Diagrams



High Density model (in reference to DS4600A-2200)



Medium Range model (in reference to DS4600A-2000)



Long Range model (in reference to DS4600A-2100)

