

# DS4600A

*Standard Version*

High Performance Compact  
Laser Scanner



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

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## Specifications

## Reading Diagrams

### 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

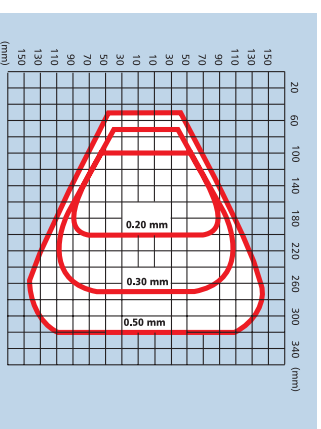
MAX. READING DISTANCE see diagrams  
MAX. DEPTH OF FIELD see diagrams  
MAX. READING FIELD see diagrams  
READABLE CODES

MULTILABEL READING Most popular standards incl: 2/5 family, Code 39, Code 93, Code 128, EAN/UPC, EAN 128  
SERIAL INTERFACES Up to 6 different codes in the same presence sensor phase  
BAUD RATE One RS232, one SW programmable RS232 / RS485 Multidrop 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)

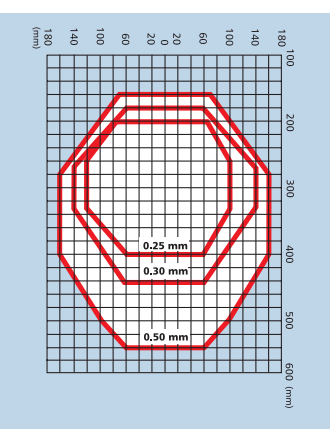
PROGRAMMING METHOD Through a serial interface (Winhost™ configuration program), or through auto-learning function  
OPERATING MODES 'On line', 'Serial On line', 'Automatic', 'Test'  
LED INDICATORS 'Ready', 'Reading phase active', 'Good read', 'Data transmit'  
DISPLAY Local echo, reading statistics  
LASER CLASSIFICATION IEC 825 Class 2  
LASER CONTROL Security system to turn laser Off in case of motor slow down or failure

### ENVIRONMENT

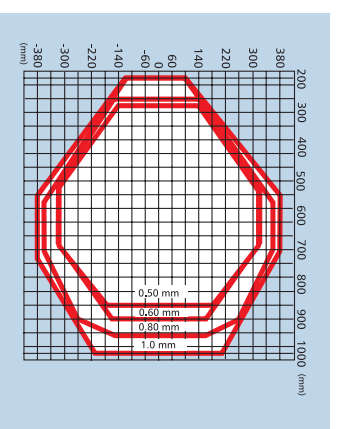
OPERATING TEMPERATURE 0 to 40 °C (32 to 104 °F) for 2XXX0 versions  
STORAGE TEMPERATURE -30 to 40 °C (-22 to 104 °F) for 2XX5 versions  
HUMIDITY -20 to 70 °C (-4 to 158 °F)  
VIBRATION RESISTANCE 90% non condensing  
SHOCK RESISTANCE IEC 68-2-6 test FC 1.5 mm; 10 to 55 Hz; 2 hours on each axis  
PROTECTION CLASS IEC 68-2-27 test EA 30 G; 11 ms; 3 shocks on each axis  
IP65



High Density model (in reference to DS4600A-2200)



Medium Range model (in reference to DS4600A-2000)



Long Range model (in reference to DS4600A-2100)

