

# DS6300

High Performance  
Laser Scanner



Unattended Scanning Systems

## General Description

The DS6300 Datalogic scanner is designed to offer a complete and modular solution in terms of reading performance, connectivity, ease of use and maintenance. New HW and SW platforms and an innovative mechanical design have been developed to provide the scanner with extreme flexibility. The GENIUS™ SW configurator enables easy scanner set-up, utilizing a Wizard for obtaining the desired configuration in a simple step-by-step process. The icons and graphics used in the Wizard make the DS6300 very easy to install, even for first time users, while the Step-a-Head™ feature makes it possible to always install the DS6300 in the ideal position. The DS6300 is equipped with a “2-step” mechanically adjustable focusing optic, providing the scanner with a reading range from 250 mm to 2,000 mm. The reading field width at the minimum distance and reading performance on very low contrast bar codes are among the main benefits of this scanner. It is also available with an integrated SW programmable oscillating mirror and built-in connectivity to Ethernet, DeviceNet, and Profibus.

The DS6300 has a practical display with keyboard that increase the scanner’s ease of use by showing bar code data read (local echo), statistics and diagnostic data. With the DS6300, Datalogic provides mid-range industrial bar code readers with top-class performance. As a result, the DS6300 is the optimal solution for a wide range of manufacturing applications both in the factory floor and warehouse.

## Features

- > Step-a-Head™ feature
- > “2-step” optics
- > Built-in connectivity to Ethernet / DeviceNet / Profibus
- > Reading range from 250 to 2,000 mm
- > Advanced decoder with code reconstruction capability (ACR™ 4)
- > Good reading performance on very low contrast bar codes
- > Linear and integrated OM versions
- > Display and keyboard

## Applications

- > Shop Floor, Data Collection and WIP Tracking in Manufacturing: Automotive, Electronics, Consumer Products
- > Picking, Sorting, Tracking in Warehousing and Distribution

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## Specifications

## Dimensions

### ELECTRICAL CHARACTERISTICS

POWER SUPPLY 15 to 30 Vdc  
POWER CONSUMPTION 15 W max.

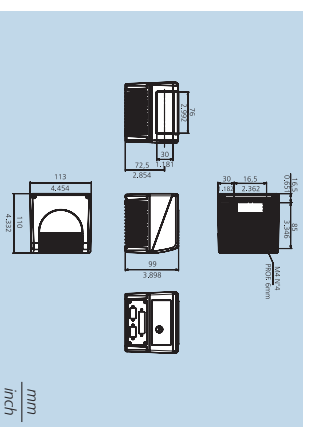
### MECHANICAL CHARACTERISTICS

DIMENSIONS 113 x 110 x 99 mm (4.45 x 4.33 x 3.90 in.)  
WEIGHT Linear version: 1.3 kg. (2 lb 14 oz)  
Integrated OM version: 2 kg. (4 lb 8 oz)  
CASE MATERIAL Aluminium

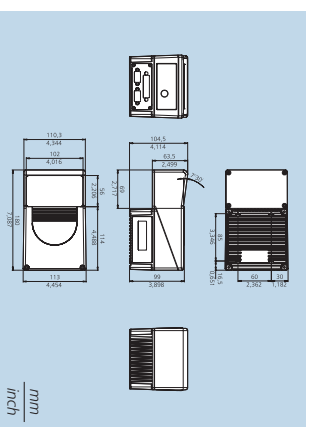
### PERFORMANCE

LIGHT SOURCE Visible Laser Diode (650 nm)  
LIGHT RECEIVER Avalanche Photodiode  
MAX. RESOLUTION 0.2 mm (8 mils )  
SCAN RATE 600 to 1,200 scans/s (SW adjustable)  
MAX. READING DISTANCE See diagram  
MAX. DEPTH OF FIELD See diagram  
MAX. READING FIELD See diagram  
READABLE CODES All the most used symbologies  
MAIN INTERFACE RS232 / RS485 (20 mA C.L. optional)  
AUXILIARY INTERFACE RS232  
OTHER AVAILABLE INTERFACES Lonworks (Master/Slave), Ethernet, Devicenet, Profibus 2400

BAUD RATE 1,200 to 115,200 bauds  
INPUT SIGNALS 'Presence sensor' plus 3 auxiliary digital inputs  
OUTPUT SIGNALS 3 SW programmable digital outputs  
OPERATING MODES 'On line', 'Serial On line', 'Continuous', 'Test'  
LED INDICATORS 'Power ON', 'Phase ON', 'TX Data'  
DISPLAY 2 lines by 16 characters LCD  
KEYPAD 3 keys  
LASER CLASSIFICATION IEC 825 Class 2  
LASER CONTROL Security system to turn laser OFF in case of motor slow down  
**ENVIRONMENT**  
OPERATING TEMPERATURE 0 to 40 °C (32 to 104 °F),  
STORAGE TEMPERATURE -20 to 70 °C (-4 to 158 °F)  
PROTECTION CLASS IP64 for standard models; IP65 on request

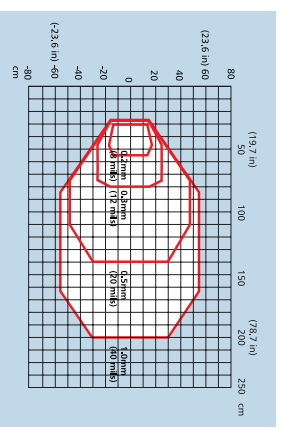


Linear version



Integrated OM version

## Reading Diagram



2-step adjustable optic reading area

