DS6300

High Performance Laser Scanner

DATALOGIC
Your Life. Our Enthusiasm™

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
> StrongArm decoder with code reconstruction capability (ACR3)
> 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

ELECTRICAL CHARACTERISTICS

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

MECHANICAL CHARACTERISTICS

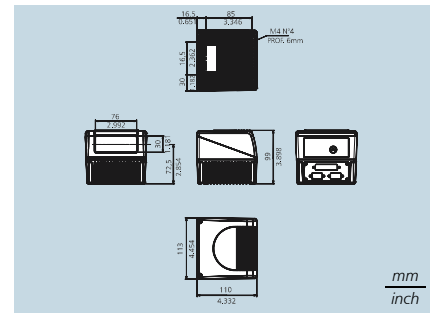|	
DIMENSIONS	113 x 110 x 99 mm (4.45 x 4.33 x 3.90 in.)
WEIGHT	Linear version: 1.3 kg. (2 lb 14 oz)
	Integrated OM version: 2 kg. (4 lb 8 oz)
CASE MATERIAL	Aluminium

PERFORMANCE

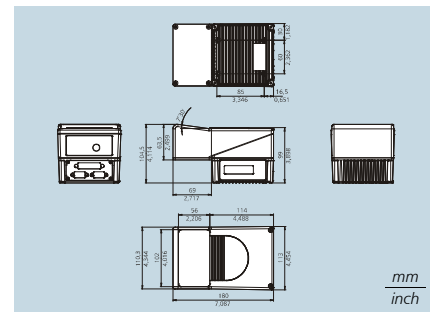|	
LIGHT SOURCE	Visible Laser Diode (650 nm)
LIGHT RECEIVER	Avalanche Photodiode
MAX. RESOLUTION	0.2 mm (8 mils)
SCAN RATE	600 to 1,200 scan/s (SW adjustable)
MAX. READING DISTANCE	See diagram
MAX. DEPTH OF FIELD	See diagram
MAX. READING FIELD	See diagram
READABLE CODES	All the most used symbologies
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

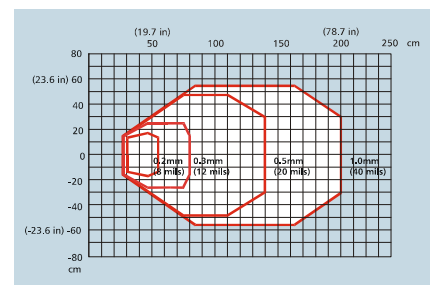|	
OPERATING TEMPERATURE	0 to 40 °C (32 to 104 °F),
STORAGE TEMPERATURE	-20 to 70 °C (-4 to 158 °F)
PROTECTION CLASS	IP64 for standard models; IP65 on request

Dimensions

Linear version

Integrated OM version

Reading Diagram

2-step adjustable optic reading area

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Quality Partner
Accredited Reseller