DX6400 DX6500

Compact omni-directional scanners

DATALOGIC
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Unattended Scanning Systems

General Description

The new DX6400 and DX6500 are industrial fixed position barcode readers designed to offer an omni-directional reading solution for small/medium sized conveyors.
Both the DX6400 and DX6500 are based on the high performance 6000 family platform, the same used by DS6300, DS6400 and DS6500. Setup and upgrade for both scanners is easy, using the GENIUS™ SW configurator program with a friendly user interface .
The DX6400 uses the same optic platform as the DS6400, based on FLASH™ dynamic focus, that offers an impressive reading range and is always automatically focused on the object. The DX6400 is the ideal solution for reading on induction lines (up to 500 mm of width), with different sized objects, where the dynamic focus is able to cover the wide reading range necessary.
The DX6500 uses the same optic platform as the DS6500, based on ASTRA™ technology, that offers an impressive real time depth of field, as a result of the electronic switching between two laser diodes. The DX6500 is the ideal solution for high speed sorter applications (width up to 400 mm) where the gap between parcels is reduced.
As a result of a special mechanical solution that creates a cross pattern, and high performance ACR™ code reconstruction SW algorithm, the new DX6400 and DX6500 are the ideal solution for omni-directional reading on medium sized conveyors.
Special models of the DX6400 and DX6500 with built-in connectivity to Ethernet and a fully implemented TCP/IP protocol are also offered. The practical display with keyboard increases the scanner's ease of use and offers a simple human interface without the need of a PC.

Features

- Industrial omni-directional scanner
- FLASH™ dynamic focus on the DX6400
- ASTRA™ electronic focus on the DX6500
- GENIUS™ configuration program
- Display and 3-key keypad
- Built-in Ethernet with TCP/IP protocol

Applications

- Sorting on induction lines with the DX6400
- Sorting on high speed conveyors with the DX6500
- Distribution (CDs, books, clothes)
- Postal applications

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Specifications

ELECTRICAL CHARACTERISTICS

POWER SUPPLY	15 to 30 Vdc
POWER CONSUMPTION	18 W (22 W max.)

MECHANICAL CHARACTERISTICS

DIMENSIONS	225 x 149.8 x 116.8 mm (8.86 x 5.90 x 4.60 in.)
WEIGHT	2.1 kg (4.62 lb)
CASE MATERIAL	Aluminium

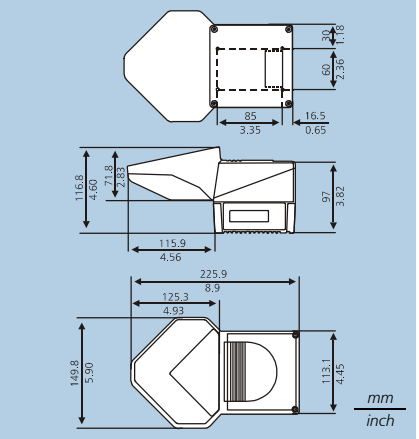
PERFORMANCE

LIGHT SOURCE	Visible Laser Diode (650 nm)
MAX. RESOLUTION	0.38 mm (15 mils)
SCAN RATE	400 to 750 scan/s (SW adjustable)
MAX. READING DISTANCE	See diagrams
MAX. DEPTH OF FIELD	See diagrams
MAX. READING FIELD	See diagrams
READABLE CODES	All most used symbologies
MULTILABEL READING	Up to 10 different codes in the same reading phase
MAIN INTERFACE	RS232 / RS485 (20 mA C.L. optional)
AUXILIARY INTERFACE	RS232 / RS485 (20 mA C.L. optional)
OTHER AVAILABLE INTERFACES	Lonworks (Master/Slave), Ethernet, Devicenet, Profibus
BAUD RATE	1,200 to 115,200 bauds
INPUT SIGNAL	'Presence sensor' plus 3 auxiliary digital inputs
OUTPUT SIGNALS	3 SW programmable digital outputs
OPERATING MODES	'On line', 'Serial On line', 'Continuous', 'Test', 'PackTrack'
DISPLAY	2 lines by 16 characters LCD
KEYPAD	3 keys
LED INDICATORS	'Power ON', 'Phase ON', 'TX data'
LASER CLASSIFICATION	IEC 825 Class 2
LASER CONTROL	Security system to turn laser OFF in case of motor slow down

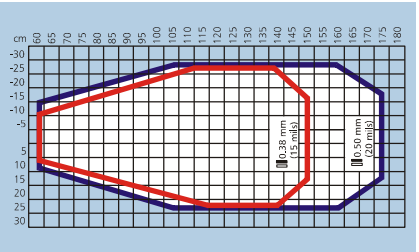
ENVIRONMENT

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

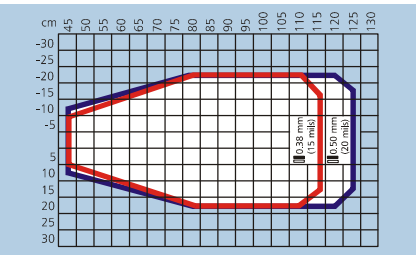
Dimensions



Reading Diagrams



DX6400 reading area with dynamic focusing system



DX6500: Real Time DOF

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