DS6400
High Performance Laser Scanner

General Description

The new **DS6400** has been specifically designed to satisfy the needs of various AutoID applications in Manufacturing and Logistics applications.

The **DS6400** is based on the same concept of the DS6300 and DS6500: a complete and modular solution in terms of reading performance, connectivity, ease of use and maintenance.

Modularity and flexibility of the **DS6400** is based on an innovative mechanical design with the scanner separated in two parts: the reading head and decoder base. As a result, it is possible to always install the scanner in the ideal position, by simply rotating the Head / Base position (“Step-A-Head”).

The **DS6400** has a built-in linear motor providing a dynamic focus system called **FLASH™**, fully controlled via SW, which covers an impressive reading range of over 2 meters. **FLASH™** is capable of moving the focus position from the minimum to the maximum position, in less than 10 msec. **FLASH™** complements **ASTRA™** technology, based on a multi-laser architecture, which maximizes the real time depth of field.

The **DS6400** is offered both in linear and integrated Oscillating Mirror (OM) versions, which are fully SW controlled.

The **DS6400** has the same decoder base as the DS6300, with built-in connectivity to Ethernet, Devicenet and Profibus.

With the **GENIUS™** program, it’s easy to setup the scanner and to perform functions such as remote control and SW updates on any slave scanner of the cluster by simply connecting the Master.

Features

- New “**FLASH™**” dynamic focus system
- Totally SW controlled
- Reading range from 300 to 2500 mm
- Strong Arm decoder with code reconstruction capability (ACR3)
- Linear and integrated Oscillating Mirror versions
- Display and keyboard
- **GENIUS™** SW configurator
- Built-in connectivity to Ethernet / Devicenet / Profibus
- **PackTrack™** function

Applications

- Shop Floor, WIP tracking in Manufacturing, Automotive, Electronics, Consumer Products
- Reading on pallets in Warehousing and Distribution
- Tracking and sorting of goods

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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.);
  Integrated OM version: 180 x 113 x 99 mm (7.09 x 4.45 x 3.90 in.)
- **Weight:** Linear version: 1.4 kg (3 lb); Integrated OM version: 2 kg (4 lb 8 oz)
- **Case Material:** Aluminium

**Performance**
- **Light Source:** Visible Laser Diode (650 nm)
- **Max. Resolution:** 0.2 mm (8 mils)
- **Scan Rate:** 600 to 1,200 scans/s (SW adjustable)
- **Max. Reading Distance:** See diagrams
- **Max. Depth of Field:** See diagrams
- **Readable Codes:** All the 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

Reading Diagrams

- **0.2 mm (8 mils) resolution codes**
- **0.375 mm (15 mils) resolution codes**
- **0.5 mm (20 mils) resolution codes**

Modular Concept

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