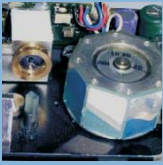


DS4600A

ACR Version

High Performance Compact Laser Scanner



General Description

The new Datalogic **DS4600A-3XXX** is an industrial fixed positioned bar code reader designed for the manufacturing industry.

The **DS4600A-3XXX** features an ACR™ (Advanced Code Reconstruction) decoder. ACR™ technology based on a powerful DSP which performs real time bar code image reconstruction and decoding, enabling non-oriented labels placed in various positions on objects to be read. The great benefit provided by ACR™ technology on the **DS4600A-3XXX** is that the barcode positioning tolerance is increased and it is easier to position the scanner.

As a result of new optics, based on a diffractive lens, and an improved focusing system, the **DS4600A-3XXX** provides great reading performance in challenging situations in which thermal transfer or low contrast barcodes are used. One of the scanner versions with a new optic platform makes it possible to read high resolution barcodes (0.2mm/8 mils).

The new Datalogic **DS4600A-3XXX** is available in three versions: the high resolution model (DS4600A-3200), the medium range model (DS4600A-3000) and the long range version (DS4600A-3100).

The reading characteristics, ease of use and flexibility of the **DS4600A-3XXX** make this scanner suitable for a wide range of applications in the manufacturing industry, including automated warehousing, shop floor, data collection and WIP tracking, providing ideal benefits for the customer.

With the **DS4600A-3XXX** state-of-the-art technology, Datalogic strengthens its leadership in the design, manufacture and distribution of bar code reading systems.

Features

- > Reading distance up to 1,000 mm
- > ACR™ code reconstruction
- > Real time decoding with new DSP
- > Good reading performances on very low contrast bar codes
- > Oscillating mirror available
- > Two software programmable outputs
- > WinHost™ programming

Applications

- > Automated warehousing
 - Conveyor sorting
 - Label verification
 - Picking systems
- > Automated shop floor
 - Items and parts tracking
 - Packaging
 - Compliance

Specifications

ELECTRICAL CHARACTERISTICS

| | |
|-------------------|--------------|
| POWER SUPPLY | 10 to 30 Vdc |
| POWER CONSUMPTION | 6 W max. |

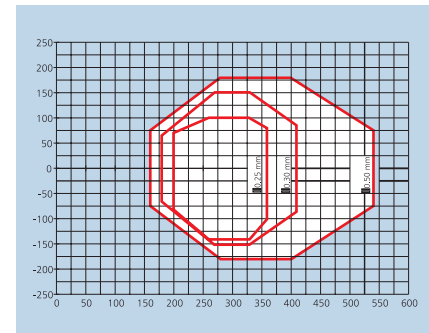
MECHANICAL CHARACTERISTICS

| | |
|---------------|---|
| DIMENSIONS | 101 x 83.5 x 42 mm (3.98 x 3.29 x 1.65 in.) |
| WEIGHT | 615 g (21.7 oz.) approx. |
| CASE MATERIAL | Cast aluminium |

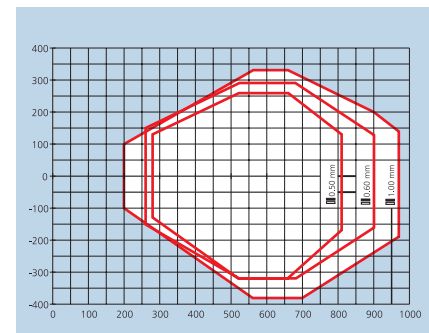
PERFORMANCE

| | |
|-----------------------|--|
| 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 | Most popular standards incl. 2/5 family, Code 39, Code 93, Code 128, EAN/UPC, EAN 128 |
| MULTILABEL READING | Up to 6 different codes in the same presence sensor phase |
| SERIAL INTERFACES | One RS232, one SW programmable RS232 / RS485 Multidrop |
| BAUD RATE | 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) |
| OPERATING MODES | 'On line', 'Serial On line', 'Automatic', 'Test' |
| LED INDICATORS | 'Ready', 'Reading phase active', 'Good read', 'Data transmit' |
| 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) |
| STORAGE TEMPERATURE | -20 to 70 °C (-4 to 158 °F) |
| HUMIDITY | 90% non condensing |
| VIBRATION RESISTANCE | IEC 68-2-6 test FC 1.5 mm; 10 to 55 Hz; 2 hours on each axis |
| SHOCK RESISTANCE | IEC 68-2-27 test EA 30 G; 11 ms; 3 shocks on each axis |
| PROTECTION CLASS | IP65 |

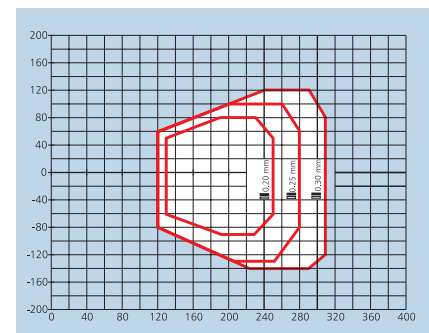
Reading Diagrams



Medium Range model (DS4600A-3000)



Long Range model (DS4600A-3100)



High Resolution model (DS4600A-3200)

