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 the 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.
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)
- **LED INDICATORS**: ‘Ready’, ‘Reading phase active’, ‘Good read’, ‘Data transmit’
- **LASER CLASSIFICATION**: IEC 825 Class 2
- **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

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Reading Diagrams

Medium Range model (DS4600A-3000)

Long Range model (DS4600A-3100)

High Resolution model (DS4600A-3200)