DS4800

Compact Laser Scanner

Highlights

DS4800 is an industrial laser scanner combining flexibility and compactness thus satisfing all application needs of the production plant.

HUGE FLEXIBILITY

Through the **smart focus adjustment** DS4800 optimizes the performances based on the reading distance.
This extends the reading area and improves the overall read rate.

• EXCELLENT PERFORMANCE

Thanks to **DIGITECH™** technology, DS4800 provides excellent reading performance on low quality barcodes. By means of optimized **reading recipes**, DS4800 improves reading rate on low contrast barcodes while granting excellent performance at high skew angles. Additionally, **ACR4™ reconstruction technology** increases the max tilt angle and decoding rate on damaged barcodes.

• EASE OF USE

The intuitive **X-PRESS™** Human Machine Interface makes installation and maintenance easier than ever thanks to a five LED bar-graph and the multi-function key providing immediate access to relevant functions: *Test Mode* (for bar code verification), *AutoLearn* (for automatic code setting) and *AutoSetup* (for self optimization of reading performance).

DS4800 is easily programmed through the multi-language **Genius™** SW tool. Thanks to the wizard approach and graphic add-ons, the scanner configuration is rapidly accomplished.

CONNECTIVITY

DS4800 is equipped with the embedded high-speed ID-NET™ communication interface. ID-NET™ allows efficient data collection without the need of external multiplexer providing overall cost reduction and simpliying nertwork wiring. Extended fieldbus connectivity is available through a complete range of modular connection boxes.

• INDUSTRIAL STRENGTH

With its rugged construction, IP65 protection class, 50°C max operating temperature and total ambient light immunity, DS4800 is suitable for all main industrial applications













Features

- Smart Focus adjustment for flexible reading area selection
- DIGITECH™ technology allows excellent reading performance
- Intuitive X-PRESS[™] interface provides easy scanner setup
- ACR4™ reconstruction technology improves reading of damaged barcodes
- Multi-language Genius™ SW Tool allows rapid scanner configuration
- ID-NET™ embedded interface for high-speed communication network
- Multil-language display improves scanner monitoring and diagnostic
- Total ambient light immunity thanks to the high frequency laser modulation
- IP65 rugged industrial housing

Applications

Automated warehousing

- · Medium/small conveyor sorting
- Reading on pallets
- Picking systems
- Receiving / Incoming materials

Automated shop floor

- Items and parts tracking
- Process control
- Overall production traceability
- Packaging and compliance



DS4800

Specifications

Models

Order No Description

DS4800-1000 ADJ FOCUS, LINEAR 931061318

Accessories

Order No. Description

93ACC1837 BK-4000 L-SHAPE BRACKET (5 PCS) 93ACC1838 BK-4001 U-SHAPE BRACKET (5 PCS)

Technical Data

DIMENSIONS 84 x 68 x 34 mm (3.31 x 2.68 x 1.34 in)

570gr (20,11 oz.) WEIGTH CASE MATERIAL

OPERATING TEMP 0 to 50°C (32 to 122°F STORAGE TEMP. -20 to 70°C (-4 to 158°F) HUMIDITY

90% non condensing 68-2-6 test FC 1.5mm; 10 to 55 Hz; 2 hours on each axis IEC 68-2-27 test EA 30 G; 11 ms; 3 shocks on each axis VIBRATION RESISTANCE IEC SHOCK RESISTANCE PROTECTION CLASS

LIGHT SOURCE

Visible laser diode (630 to 680 nm) SCANNING SPEED Up to 1000 scan/s Sw Programmable

RESOLUTION Up to 0.20mm (8 mils)

READING DISTANCE DEPTH OF FIELD Up to 1000mm on 0.50mm (20 mils) barcodes Up to 600mm on 0.50mm (20 mils) barcodes

APERTURE ANGLE 60 degrees

READABLE CODES Code 2/5, Code39, Code93, Code128, EAN/UPC, EAN128,

Codabar, Pharmacode, ISBN128

MULTILABEL READING Up to 10 different symbologies during the same reading phase **COMM.INTERFACES**

Main port RS232/RS485 Sw Selectable up to 115.2 kbps
Aux port RS232 up to 115.2 kbps
ID-NET™ port up to 1 Mbps
Genius™ Sw Configuration Tool
X-PRESS™ Human Machnie Interface

X-PRESS M Human Machnie Interface
Serial Host Mode Programming sequences
'On Line', 'Serial On Line', 'Automatic', 'Continuous', 'Test', 'Verifier'
External Trigger and IN2 (optocoupled, NPN/PNP)
OUT1, OUT2 sw programmable event driven (optocoupled)
IEC 825-1 Class2; CDRH Class II
Security system to turn laser off in case of motor slow down or failure **OPERATING MODES**

INPUT SIGNALS OUTPUT SIGNALS

LASER CLASSIFICATION

LASER CONTROL

MOTOR CONTROL POWER SUPLY Motor On/Off command string and Motor Speed sw programmable 10 to 30 VDC

POWER CONSUMPTION

DEVICE PROGRAMMING

Applications



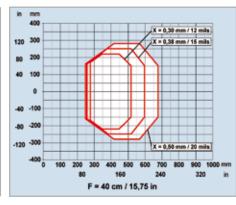
Automated Warehousing

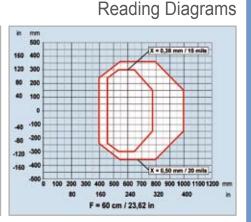




Picking Systems

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For more information and software downloads see: www.automation.datalogic.com/DS4800

