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.
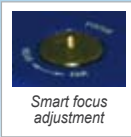
• EASE OF USE
The intuitive **X-PRESS™** Human Machine Interface makes installation and maintenance easier than ever thanks to a five LED bar-graph and the multi-function key providing immediate access to relevant functions: *Test Mode* (for bar code verification), *AutoLearn* (for automatic code setting) 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.
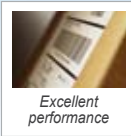
• CONNECTIVITY
DS4800 is equipped with the embedded high-speed **ID-NET™** communication interface. ID-NET™ allows efficient data collection without the need of external multiplexer providing overall cost reduction and simpliying nertwork wiring. Extended fieldbus connectivity is available through a **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

Smart focus adjustment

Excellent performance

Ease of use

ACR4™ technology

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

◈DATALOGIC™

DS4800

Specifications

Models

Order No.	Description
931061318	DS4800-1000 ADJ FOCUS, LINEAR

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)
WEIGTH	570gr (20,11 oz.)
CASE MATERIAL	Aluminum
OPERATING TEMP.	0 to 50°C (32 to 122°F)
STORAGE TEMP.	-20 to 70°C (-4 to 158°F)
HUMIDITY	90% non condensing
VIBRATION RESISTANCE IEC	68-2-6 test FC 1.5mm; 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
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	Up to 1000mm on 0.50mm (20 mils) barcodes
DEPTH OF FIELD	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
DEVICE PROGRAMMING	Genius™ Sw Configuration Tool
	X-PRESS™ Human Machnie Interface
	Serial Host Mode Programming sequences
OPERATING MODES	'On Line', 'Serial On Line', 'Automatic', 'Continuous', 'Test', 'Verifier'
INPUT SIGNALS	External Trigger and IN2 (optocoupled, NPN/PNP)
OUTPUT SIGNALS	OUT1, OUT2 sw programmable event driven (optocoupled)
LASER CLASSIFICATION	IEC 825-1 Class2; CDRH Class II
LASER CONTROL	Security system to turn laser off in case of motor slow down or failure
MOTOR CONTROL	Motor On/Off command string and Motor Speed sw programmable
POWER SUPLY	10 to 30 VDC
POWER CONSUMPTION	6W

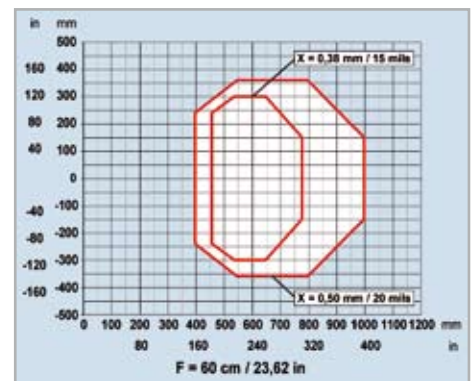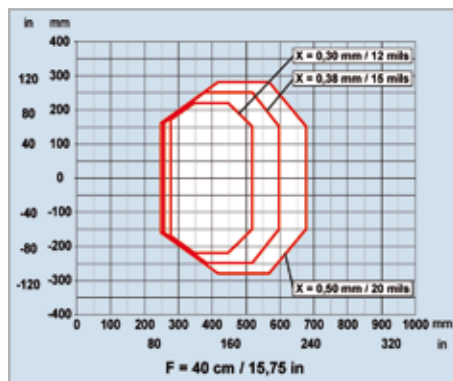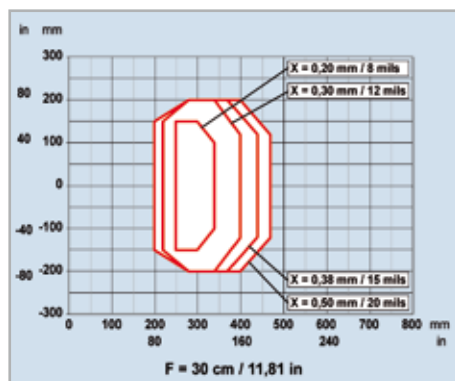## Applications

Automated Warehousing

Automated Shop Floor

Picking Systems

Reading Diagrams

F = 30 cm / 11,81 in

F = 40 cm / 15,75 in

F = 60 cm / 23,62 in

December 2007

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