DS4800N

Compact Laser Scanner

Highlights

DS4800 is an industrial laser scanner combining flexibility and compactness thus satisfying 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 allows to increase maximum 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), Auto Learn (for automatic code setting) and Auto Setup (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.

ENHANCED 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 simplifying network wiring Extended Fieldbus and Ethernet connectivity is available through a complete range of modular connection

INDUSTRIAL FEATURES

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. With its integrated heating system, DS4800 Subzero model features an operating temperature down to -35°C (-31°F).











Features

- Smart Focus adjustment for flexible reading area selection
- Linear and Oscillating Mirror versions
- Subzero version for low temperature environments
- DIGITECH™ technology allows excellent reading performance
- X-PRESS™ interface for easy and intuitive scanner setup
- ACR4™ reconstruction technology improves reading of damaged barcodes
- Easy setup through multilanguage
- Genius™ software tool
 ID-NET™ embedded interface for high-speed communication networks
- Multilanguage display improves scanner monitoring and diagnostic
- Total ambient light immunity thanks to the high frequency laser modulation
- IP65 rugged industrial housing

Applications

- Automated warehousing
- Reading on pallets
- Picking systems
- Automated shop floor
- Items and parts tracking
- Process control systems
- Cold Storage Environments



DS4800N

Specifications

SHOCK RESISTANCE PROTECTION CLASS LIGHT SOURCE

SCANNING SPEED RESOLUTION

DEPTH OF FIELD APERTURE ANGLE

READABLE CODES

AMBIENT LIGHT REJECTION

MULTILABEL READING COMMUNICATION INTERFACES

CONNECTIVITY MODES DIGITAL INPUTS
DIGITAL OUTPUTS

DEVICE PROGRAMMING OPERATING MODES USER INTERFACE

DISPLAY

Models

Order No.	Description
931061318	DS4800-1000 ADJ FOCUS, LINEAR
931061321	DS4800-1100 ADJ FOCUS, OSCILLATING MIRROR
931061322	DS4800-1005 ADJ FOCUS, LINEAR, SUBZERO
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Accessories

Order No.	Description
93ACC1785	GFC-40 105 DEGREES MIRROR DS4800
93ACC1867	GFC-400 ADJ MIRROR CONTACT READING
93ACC1837	BK-4000 L-SHAPE BRACKET (5 PCS)
93ACC1838	BK-4001 U-SHAPE BRACKET (5 PCS)

Technical Data

	DS4800-1000	DS480
DIMENSIONS	101 x 85 x 42 mm	117 x 12
	(3.97 x 3.33 x 1.65 in)	(4.60 x 4
WEIGHT	570 gr. (20.11 oz.)	780 gr.
OPERATING TEMPERATURE	0 to 50 °C (32 to 122 °F)	0 to 50 °
STORAGE TEMPERATURE	-20 to 70 °C (-4 to 158 °F)	-20 to 70
HUMIDITY	90% non condensing	
VIBRATION RESISTANCE	IEC 68-2-6 test FC 1.5n	nm: 10 to

0-1100 DS4800-1005 101 x 85 x 42 mm (3.97 x 3.33 x 1.65 in) 23 x 48 mm 4.84 x 1.89 in) 580 g (20.5 oz

IEC 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

Visible laser diode (630 to 680 nm) 30000 LUX

600 to 1000 scan/s Up to 0.20 mm (8 mils) Up to 1000 mm on 0.50 mm (20 mils) barcodes Up to 600 mm on 0.50 mm (20 mils) barcodes

Code 2/5, Code39, Code93, Code128, EAN/UPC, EAN128, Codabar, Pharmacode, Plessey, ISBT128
Up to 10 different symbologies during the same reading phase Main port RS232/RS422/RS485 up to 115.2 Kbit/s

Auxiliary port RS232 up to 115.2 kbps / ID-NET™ port up to 1 Mbps Pass Through, Master/Slave, Multiplexer

Two SW programmable, optocoupled, NPN/PNP

Two SW programmable, event driven, optocoupled X-PRESS™ Human Machine Interface / Windows™ based SW (Genius™) via Serial Host Mode Programming sequences

'On-line', 'Serial On-line', 'Automatic', 'Continuous', 'Test', 'Verific X-PRESS™ Human Machine Interface

Programmable Push Button, LEDs (Status, Com, Trigger, Good, Ready, Power On)

16 x 2 characters

LASER CLASSIFICATION LASER CONTROL IEC 825-1 Class2; CDRH Class II Safety system to turn laser off in cases of motor slowdown or failure MOTOR CONTROL POWER SUPPLY: Motor On/Off command string and Motor Speed SW programmable 10 - 30 VDC | 10 - 30 VDC | 24 VDC ±10% POWER CONSUMPTION:

28.8 W

Applications



Automated Warehousing

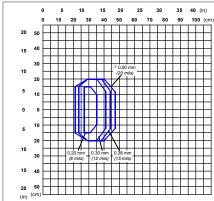


Automated Shop Floor

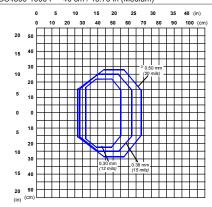


Picking System

DS4800-1000 F = 30 cm / 11.81 in (Near)

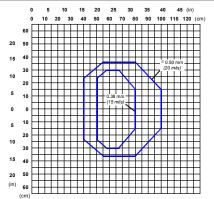


DS4800-1000 F = 40 cm / 15.75 in (Medium)



Reading Diagrams

DS4800-1000 F = 60 cm / 23.62 in (Far)



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