

DS41

High performance compact laser scanner

FEATURES

- Real time decoding (100,000 characters per second)
- Scanning speed up to 1300 scans/s
- Reading distance up to 400 mm (15.7 in)
- Depth of field up to 350 mm (13.8 in)
- Small dimensions and industrial casing
- Two standard serial interfaces
- Print Contrast Signal evaluation
- Verifier functioning mode
- Position measuring and testing
- UL approved

APPLICATIONS

- Packaging machines
- Chemical and biomedical analysis machines
- Pharmaceutical verifiers
- On-line print verification
- Reading on narrow conveyors
- Automated warehouses
- Automatic document handling

GENERAL DESCRIPTION

The **DS41** industrial scanner represents the ideal solution for bar code reading in applications which require high performance, small dimensions and reduced costs. Taking advantage of its considerable experience and technological knowhow, Datalogic, leader in the fixed scanners for industrial applications sector, has managed to fulfil these requirements.

The **DS41** is characterised by its high scanning speed, real time decoding and advanced electronics, that offer an increased depth of field and a wide range of innovative functions aimed at resolving specific application problems. The **DS41** also guarantees high reliability under the most adverse industrial conditions, and is easy to install.

The scanner is available in high resolution versions which allow reading of the highest resolution codes, while maintaining the same features of speed and reliability. The **DS41** is also available in linear optic versions as well as with 2 raster reading versions at different aperture angles.

Thanks to these characteristics, the **DS41** offers considerable advantages in many application sectors, including: machines for the packaging and pharmaceutical industries, automatic document handling, analysis machines, palletisation systems and code verifiers.



MODELS AND ACCESSORIES

MODEL	DESCRIPTION	ORDER NR.
DS41-10	STANDARD RESOLUTION, CANNON CONNECTOR	910101000
DS41-11	STANDARD RESOLUTION, JUNCTION BOX	910101010
DS41-20	VERY HIGH RESOLUTION, CANNON CONNECTOR	910101020
DS41-21	VERY HIGH RESOLUTION, JUNCTION BOX	910101030
DS41-30	RASTER R2CANNON CONNECTOR	910101040
DS41-31	RASTER R2JUNCTION BOX	910101050
DS41-40	RASTER R1CANNON CONNECTOR	910301010
DS41-41	RASTER R1JUNCTION BOX	910301020
ACCESSORIES		
PG220/DVE-1212A	POWERBLOCK 220V	B9751027
PG110/DVE-1212A	POWERBLOCK 110V	B9751057
OM4000	Industrial Oscillating Mirror	93A251030
GFC-41	OPTIC ASSY 90 DEGR. READING	91D081000

SPECIFICATIONS

POWER SUPPLY 10 to 30 VDC POWER CONSUMPTION 6 W

LIGHT SOURCE Visible Laser Diode (630 to 680 nm)

DS41-1x/3x/4x MAX. RESOLUTION 0.15 mm (6 mils) DS41-2x 0.10 mm (4 mils)

SCAN RATE 800 (1300) scans/sec

MAX. READING DISTANCE DS41-1x/3x/4x 400 mm (15.7 in.) 125 mm (4.9 in.) DS41-2x DS41-1x/3x/4x 350 mm (13.8 in.) MAX. DEPTH OF FIELD

DS41-2x 70 mm (2.8 in.)

MAX. READING FIELD 320 mm (12.6 in.)

APERTURE ANGLE 60 degrees

READABLE CODES 22 types incl. 2/5, code 39, code 93, code 128,

EAN/UPC, codabar, EAN 128

MULTILABEL READING Up to 6 different codes in the same presence

sensor phase

INTERFACES Two selectable serial interfaces RS232 / RS485

Multidrop / 20 mA C.L. **BAUD RATE** 150 to 19200 bauds

INPUT SIGNAL 'Presence sensor' (Optocoupled NPN/PNP transistor)

'No read', 'Right', 'Wrong' (Optocoupled **OUTPUT SIGNALS** NPN transistor open collector and emitter)

PROGRAMMING METHOD Through a serial interface (WINHOST scanner configuration program)

OPERATING MODES 'On line', 'Serial On line', 'Automatic', 'Test', 'Verifier'

LED INDICATORS 'Power on', 'Reading phase active',

'Label present', 'Data transmit'

LASER CLASSIFICATION IEC 825 Class 2

LASER CONTROL Security system to turn laser Off in case of

motor slow down or failure DIMENSIONS 101 x 83.5 x 42 mm (3.98 x 3.29 x 1.65 in.)

WEIGHT

600 g (21.2 oz.) approx. CASE MATERIAL Cast aluminium OPERATING TEMPERATURE 0 to 40 °C (32 to 104 °F) STORAGE TEMPERATURE -20 to 70 °C (-4 to 158 °F)

HUMIDITY 90% non condensing

IEC 68-2-6 test FC 1.5 mm; 10 to 55 Hz; VIBRATION RESISTANCE 2 hours on each axis

IEC 68-2-27 test EA 30 G; 11 ms; 3 shocks on

each axis PROTECTION CLASS IP65

SHOCK RESISTANCE

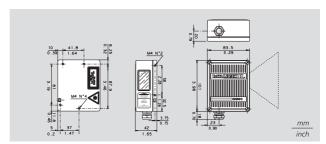
Datalogic Handelges MBH Tel. +43 2236/258820 Fax +43 2236/258825

office@datalogic.co.at

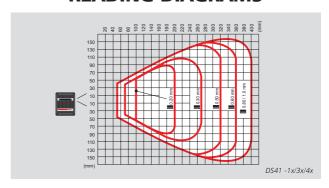
Italy Datalogic S.p.A. Tel. +39 051/3147300 Fax +39 051/726562

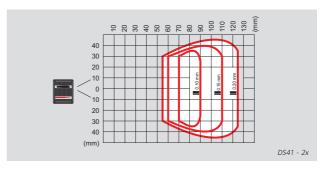
venditeitalia@datalogic.it

DIMENSIONS



READING DIAGRAMS





Datalogic Quality Partner







We reserve the right to make modifications and improvements



Product and company names and logos referenced may be either

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