



# 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

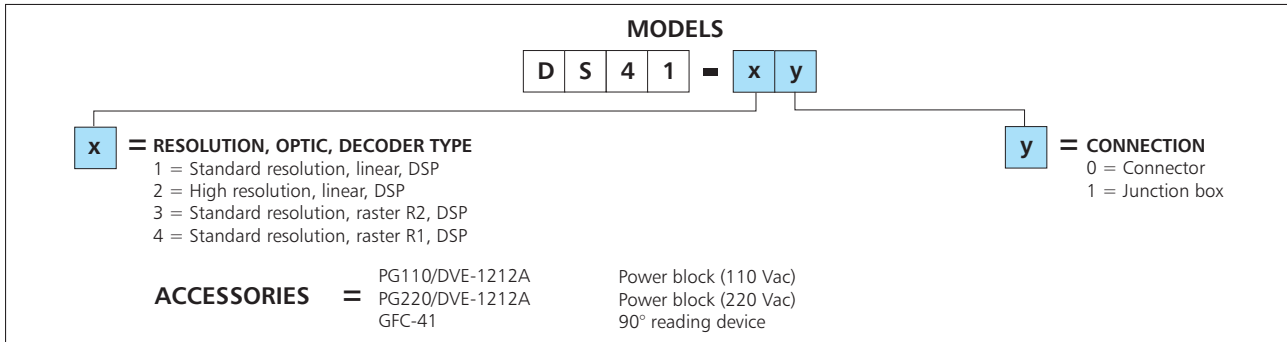
The **DS41** industrial scanner represents the ideal solution for bar code reading in applications which require high performance, small dimensions and reduced costs. Taking advantage of its considerable experience and technological know-how, Datalogic, leader in the fixed scanners for industrial applications 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.

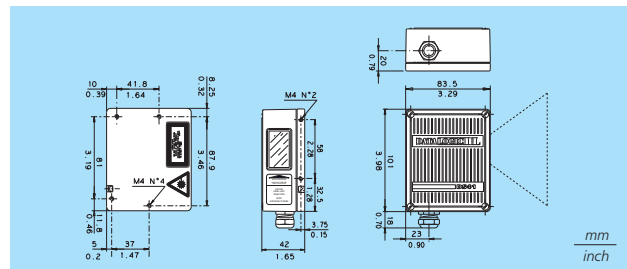
# Models and Accessories



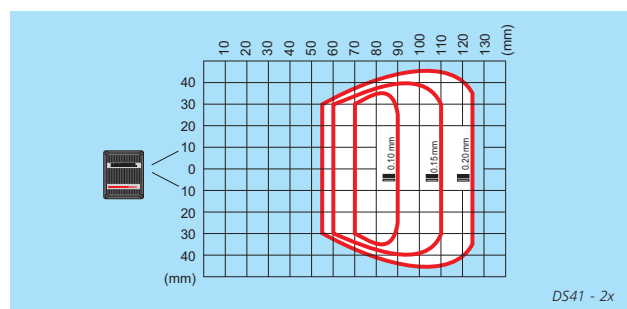
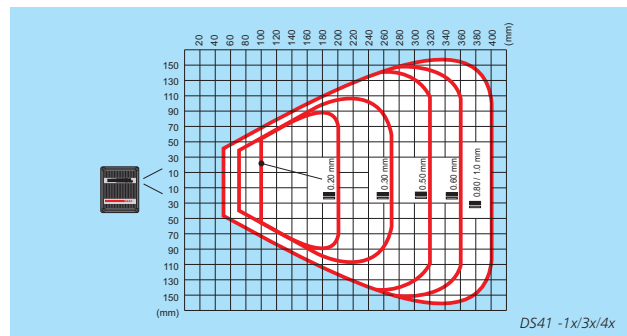
## Specifications

POWER SUPPLY	10 to 30 VDC
POWER CONSUMPTION	6 W
LIGHT SOURCE	Visible Laser Diode (630 to 680 nm)
MAX. RESOLUTION	DS41-1x/3x/4x 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.) DS41-2x 125 mm (4.9 in.)
MAX. DEPTH OF FIELD	DS41-1x/3x/4x 350 mm (13.8 in.) 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)
OUTPUT SIGNALS	'No read', 'Right', 'Wrong' (Optocoupled 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
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

## Dimensions



## Reading Diagrams



**DATA LOGIC DL**  
*Bar Code & More*

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We reserve the right to make modifications and improvements

### Datalogic Quality Partner



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