



LS50

COMPACT LASER SCANNER

- Compact dimensions
101 x 83.5 x 66 mm
(4.0 x 3.3 x 2.6 in)
- Scanning speed 500 scans/sec
- Reading distance up to 1050 mm (41.3 in)
- Depth of field up to 900 mm (35.4 in)
- Rugged industrial housing

GENERAL DESCRIPTION

The **LS50** is an automatic laser bar code scanner, designed for industrial environment applications.

The use of a solid state laser diode and SMD technology permits very compact dimensions, high reading performance and high reliability.

To satisfy various application needs, the **LS50** is available in low, medium and high resolution, as well as raster versions with three different apertures. Thanks to high scanning speed, maximum reading distance (over one metre) and large depth of field, the **LS50** can read labels in very critical conditions, such as on very fast moving objects.

Teamed with a Datalogic decoder, **LS50** provides a high performance reading system.

APPLICATIONS

- Automatic identification on conveyors
- Automated warehouses
- Automatic picking systems
- Work-in-progress tracking and monitoring
- Quality control



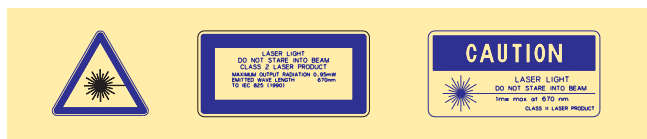
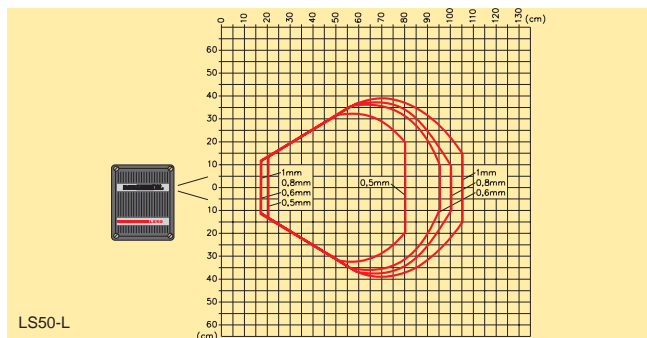
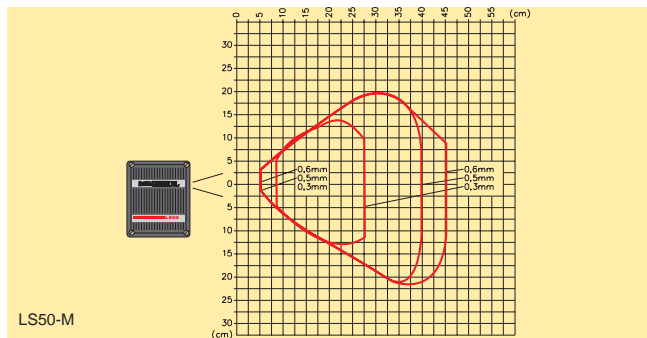
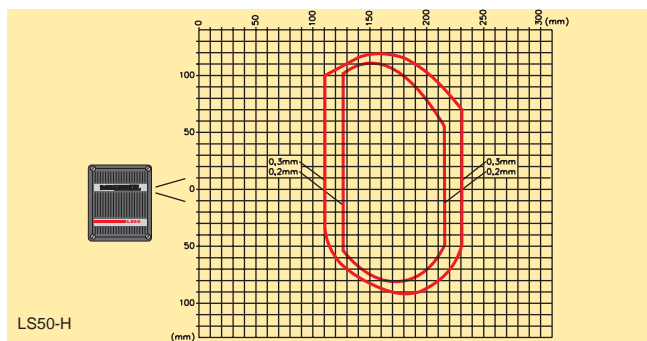
MODELS AND ACCESSORIES

MODELS	RESOLUTION			ORDER NO.
	High	Medium	Low	
LS50-H	•			B9762000
LS50-M		•		B9762001
LS50-L			•	B9762002
ACCESSORIES				
GFC-50	90° reading device			B9751067
GFC-05	Oscillating mirror attachment			B9751098
CAB-265	LS50 - DP150 connection cable			BF08000265
CAB-318	LS50/LS6100 - DP1000/DP1100 connection cable			91A001000

SPECIFICATIONS

POWER SUPPLY	4.75 to 28 Vdc
POWER CONSUMPTION	
laser on	290 mA @ 5 Vdc 120 mA @ 12 Vdc 70 mA @ 24 Vdc
laser off	180 mA @ 5 Vdc 80 mA @ 12 Vdc 50 mA @ 24 Vdc
LIGHT SOURCE	visible laser diode (670 nm)
MAX. RESOLUTION	
LS50-H	0.15 mm (6 mils)
LS50-M	0.30 mm (12 mils)
LS50-L	0.50 mm (20 mils)
SCAN RATE	500 scans/sec
MAX. READING DISTANCE	
LS50-H	230 mm (9.05 in.) (0.3 mm narrow bar)
LS50-M	450 mm (17.72 in.) (0.6 mm narrow bar)
LS50-L	1050 mm (41.34 in.) (1.0 mm narrow bar)
MAX. READING FIELD	
LS50-H	210 mm (8.27 in.) (0.3 mm narrow bar)
LS50-M	400 mm (16.53 in.) (0.6 mm narrow bar)
LS50-L	800 mm (33.46 in.) (1.0 mm narrow bar)
MAX. DEPTH OF FIELD	900 mm (35.43 in.) (1.0 mm narrow bar)
READING ANGLE	65° (typical)
LASER CONTROL	Security system that shuts laser Off in case of motor slow down or failure
DIMENSIONS	101 x 83.5 x 66 mm (4.0 x 3.3 x 2.6 in.)
WEIGHT	680 g (1.5 lbs)
CASE MATERIAL	Aluminium
LASER CLASSIFICATION	IEC 825 Class 2
OPERATING TEMPERATURE	-5 to 45 °C (23 to 113 °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	IP64
DATALOGIC COMPATIBLE	
DECODERS	DP1000, DP1100, DP150

READING DIAGRAMS



We reserve the right to make modifications and improvements

