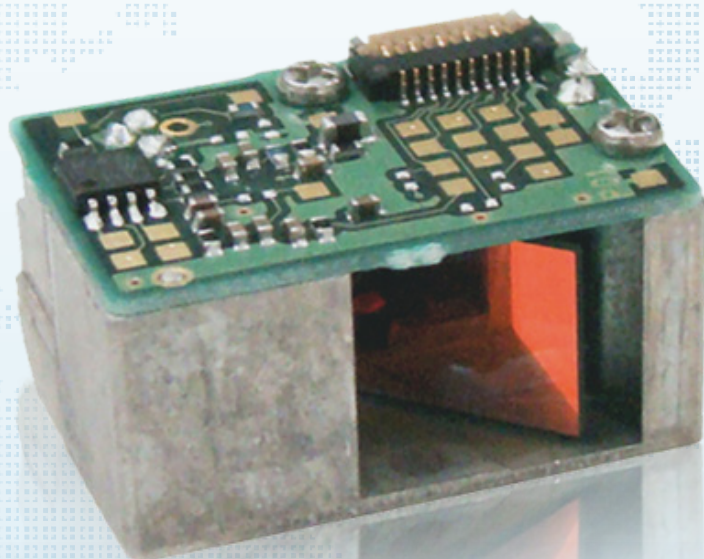
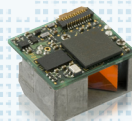


# MSL2001

## Barcode laser scanner

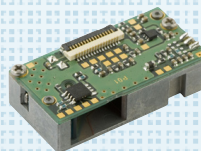


### + Related products



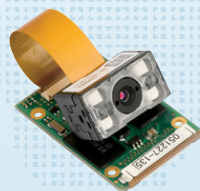
#### MDL2001

- OEM
- Decoded device
- Barcode laser scanner
- 20.4 x 11.2 x 18 mm (w x h x d)



#### MSL1000

- OEM
- Undecoded device
- Barcode laser scanner
- 28 x 7.8 x 14 mm (w x h x d)



#### MDI1000

- OEM
- Camera + decoderboard
- 2D CMOS imager

## + Basic Product Specifications

MSL2001\_001

### Signal Output

- Digital Barcode Pattern
- Hi = Black, Low = White
- 10 pin FFC connector

### Power

- Voltage requirement: 3.3V  $\pm$  10%
- Current consumption: Max. 75 mA

### Barcode scanner Optics

- Light source: 650 nm visible laser diode
- Scan method: Bi-directional scanning
- Scan rate: 100 scans/sec
- Reading pitch angle: -35 to 0°, 0 to +35°
- Reading skew angle: -50 to -8°, +8 to +50°
- Reading tilt angle: -20 to 0°, 0 to +20°
- Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
- Min. resolution at PCS 0.9: 0.127 mm / 5 mil
- Min. PCS value: 0.45
- Depth of field: At PCS 0.9 Code 39
- 70 - 550 mm / 2.76 - 21.65 in (1.0 mm / 39 mil),
- 50 - 380 mm / 1.97 - 14.96 in (0.5 mm / 20 mil),
- 50 - 230 mm / 1.97 - 9.06 in (0.25 mm / 10 mil),
- 50 - 130 mm / 1.97 - 5.12 in (0.15 mm / 6 mil),
- 60 - 110 mm / 2.36 - 4.33 in (0.127 mm / 5 mil)

### Durability

- Temperature in operation: -20 to 65 °C / -4 to 149 °F
- Temperature in storage: -30 to 70 °C / -22 to 158 °F
- Humidity in operation: 5 - 90% (non-condensing)
- Humidity in storage: 5 - 90% (non-condensing)
- Ambient light immunity: Fluorescent 4,000 lx max, Direct sun 80,000 lx max, Incandescent 4,000 lx max
- Drop test: packed in dummy case 1.8 m / 6 ft drop onto concrete surface
- MBTF: 30,000 hours except laser diode (10,000 hours) and except mirror scan unit (10,000 hours)

### Physical

- Dimensions (w x h x d):
- 20.4 x 11.1 x 18.0 mm / 0.80 x 0.43 x 0.71 in
- Weight body: Ca. 3.9 g / 0.1 oz

### Regulatory & Safety

- Product compliance: RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2,

### Sold separately

- Connection cable

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- **The Netherlands:** Hoofddorp  
- **France:** Issy Les Moulineaux  
- **Germany:** Dietzenbach  
- **Italy:** Castel Maggiore (BO)  
- **Spain:** Valencia  
- **Sweden:** Järfälla  
- **United Kingdom:** Luton, Bedfordshire  
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