

IS4125

Compact Single-Line Laser Scan Engine

Honeywell's IS4125 is a compact single-line laser scan engine with an automatic trigger. Designed for easy integration into original equipment manufacturer (OEM) devices, the IS4125 delivers a set of versatile features and strong performance in a small form factor.

The IS4125 utilizes built-in object detection to trigger scanning, enabling presentation or hands-free operation for various applications. Scanning can also be triggered by the host for hand-held or other applications. The IS4125 comes with one of the widest sweep angles available, allowing wide bar codes to be scanned close to the face of the scanner. With the simple scan of a few programming codes, the IS4125 can be reconfigured in the field. Excellent light immunity allows the IS4125 to scan well, even under strong ambient light.

The IS4125 features integrated decoding for all standard 1D symbologies, including GS1 DataBar™. Its firmware is flash upgradeable, providing investment protection. A high-density version with a resolution of 5 mil is also available.

Mechanically, the IS4125 is enclosed to prevent contamination from the environment. Its modular design makes incorporation into a variety of mounting configurations virtually effortless.



Features

- **Compact:** Designed to fit efficiently into a variety of OEM devices
- **Automatic Trigger:** Reliable bar code scanning is ideal for unattended devices or hands-free operation
- **Programmable Activation Range:** Flexible for various applications
- **Metal Housing:** Enclosed to prevent environmental contamination and accidental damage to components
- **Choice of Standard- and High-Density Models:** Meets the requirements of retail and other applications

IS4125 Technical Specifications

Mechanical/Electrical

Dimensions (W x L x H)	47 mm x 41 mm x 19 mm (1.85" x 1.61" x 0.75")
Weight	53 g (1.87 oz)
Input Voltage	5 VDC ± 0.25 V
Operating Power	<120 mA @ 5 VDC - typical
Standby Power	<58 mA @ 5 VDC - typical
Termination	12 pin ZIF connector
Laser Class	Class 2: IEC 60825-1, EN 60825-1
Host System Interfaces	Standard: USB, RS232-C, Keyboard Wedge, Light Pen Wand Emulation High Density: RS232-C, TTL RS232

Environmental

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 95% relative humidity, non-condensing
Light Source	Visible Laser Diode 650 nm ± 10 nm
Vibration	7 G over 10-500 Hz
Light levels	Up to 60,000 Lux (5,574 foot-candles)

Scan Performance

Object Detection Range	Long: 279 mm ± 51 mm (11" ± 2"); Short: 140 mm ± 38 mm (5.5" ± 1.5")
Scan Pattern	Single scan line
Scan Speed	52 scan lines per second
Scan Angle	60°
Print Contrast	35% minimum reflectance difference
Tilt, Pitch, Skew	± 30°, ± 56°, ± 58°
Decode Capability	Code 39, Code 93, Code 128, UPC/EAN/JAN, Code 2 of 5, Code 11, Codabar, MSI Plessey, GS1 DataBar, Telepen, Trioptic
Warranty	2 year factory warranty

For a complete listing of all compliance approvals and certifications please visit www.honeywellaidc.com/compliance



Typical Performance* (Standard)	
Narrow Width	Depth of Field
6.8 mil	30 mm - 100 mm (1.2" - 3.9")
7.5 mil	30 mm - 110 mm (1.2" - 4.3")
10.4 mil	25 mm - 150 mm (1.0" - 5.9")
13 mil	25 mm - 200 mm (1.0" - 8.0")
21 mil	30 mm - 235 mm (1.2" - 9.3")
*Resolution: 6.8 mil (0.173 mm)	
*Performance may be impacted by bar code quality and environmental conditions	

Typical Performance* (High Density)	
Narrow Width	Depth of Field
5.2 mil	35 mm - 75 mm (1.4" - 3.0")
6.1 mil	20 mm - 90 mm (0.8" - 3.5")
7.2 mil	10 mm - 110 mm (0.4" - 4.3")
10.4 mil	10 mm - 140 mm (0.4" - 5.5")
13 mil	10 mm - 175 mm (0.4" - 6.9")
*Resolution: 5.2 mil (0.132 mm)	
*Performance may be impacted by bar code quality and environmental conditions	

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