

# IS4125

## Compact Single-Line Laser Scan Engine

Honeywell's IS4125 engine is a compact single-line, laser scan engine with a patented automatic trigger. Designed for integration into Original Equipment Manufacturer (OEM) devices, IS4125 is small, lightweight and has low power requirements.

The IS4125 offers bar code scanning that's easy to configure and integrate. This powerful scan engine incorporates a host of features, providing flexibility for users in a variety of applications. The IS4125 has built-in decoding for versatile OEM operations which can be easily updated in the field to keep the scanner current.

Besides the powerful software, the engine is mechanically robust as well. The unit is entirely enclosed to prevent contamination from the environment. The modular design can also be incorporated into a number of different mounting configurations. With all of these options, the IS4125 makes the addition of scanning to any application a snap.

An undecoded version, the IS4110, is also available.

For more information on the IS4125 compact single-line laser scan engine, please visit [www.honeywell.com/aidc](http://www.honeywell.com/aidc)



## Features

- **Compact:** Designed to fit efficiently into OEM devices
- **Automatic Scanning Operation:** Simply present a bar code and the unit scans in a single pass
- **Long Range/Short Range Activation:** Program activation to meet requirements for various applications
- **Metal Housing:** Prevents damage by eliminating exposed electronic components
- **Autodiscriminates:** Has the ability to scan all standard 1D bar codes

# IS4125 Technical Specifications

## Operational

Light Source	Visible Laser Diode 650 nm ± 10 nm
Host System Interfaces	USB, RS232, Keyboard Wedge, Light Pen Emulation

## Mechanical

Dimensions (LxWxH)	46.9 mm x 41 mm x 19.1 mm (1.85" x 1.61" x 0.75")
Weight	55 g (1.94 oz)
Termination	IS4125: 12 pin ZIF connector; IS4110: 10 pin ZIF connector

## Electrical

Input Voltage	5 VDC ± 0.25 V
Operating Current	125 mA @ 5 VDC - typical
Idle Current	65 mA @ 5 VDC - typical
Sleep Current	9 mA @ 5 VDC - typical
Laser Class	Class 2: IEC60825-1, EN60825-1
EMC	FCC Part 15, ICES-003, EN55022 Class A

## 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
Vibration	7 G over 10-500 Hz
Light Levels	4842 Lux (450 foot-candles)

## Scan Performance

Scan Pattern	Single scan line
Scan Speed	52 scan lines per second
Sweep Angle	56°
Print Contrast	35% minimum reflectance difference
Tilt, Pitch, Skew	42°, 68°, 52°
Decode Capability	Code 39, Code 93, Code 128, UPC/EAN/JAN, Code 2 of 5, Code 11, Codabar, MSI Plessey, GS1 DataBar, Telepen, Trioptic



### For more information:

[www.honeywell.com/aidc](http://www.honeywell.com/aidc)

### Security & Data Collection

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Typical Performance*	
Narrow Width	Depth of Field
6.8 mil	13 mm - 89 mm (0.5" - 3.5")
7.5 mil	13 mm - 102 mm (0.5" - 4.0")
10.4 mil	13 mm - 140 mm (0.5" - 5.5")
13 mil	25 mm - 203 mm (1.0" - 8.0")
21 mil	25 mm - 203 mm (1.0" - 8.0")

\*Resolution: 6.8 mil (0.173 mm)  
 \*Performance may be impacted by bar code quality and environmental conditions

