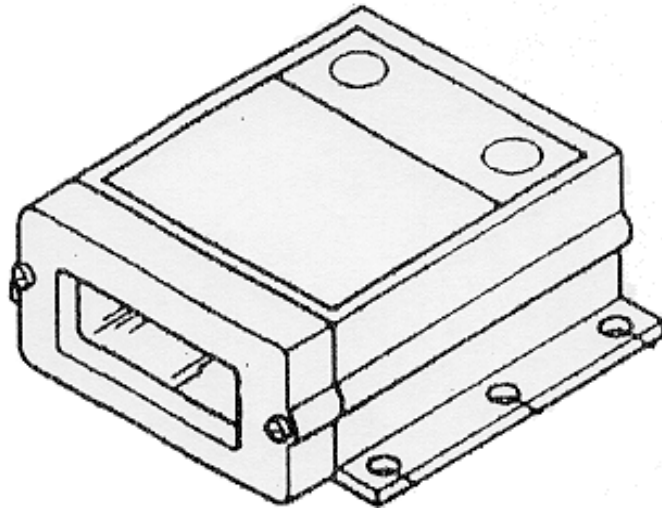


Model 110 Scanner

Technical Specifications



Miniature Size Offers Ultimate Solution for Embedded Applications

Axial technology, provides infinite scan life, eliminating motor and spinning motor.

Small housing permits flexible mounting and Nema 12 protection.

Flash memory permits in-field software upgrades and customization.

Open user-programmable firmware simplifies application specific modification, including gate parameters, symbologies, communications transmissions, buffers, and output.

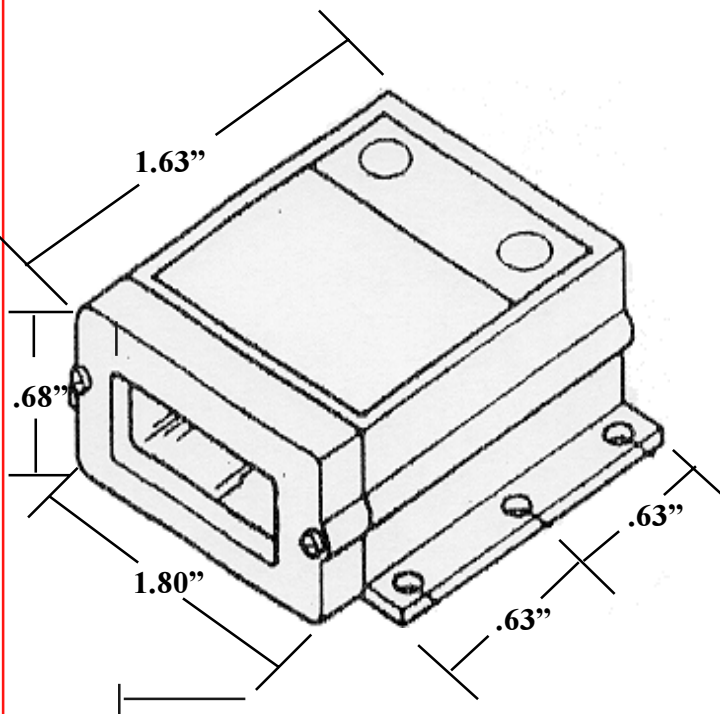
Minimum power requirement of 5v DC +/- .5v DC with 120 mA draw, reduces heat and power supply costs.

Light weight and small footprint with 15 pin connector ideal for robotics and embedded applications.



MECHANICAL ENVELOPE/MOUNTING

Measurements in inches
(centimeters)



ENVIRONMENTAL

Enclosure:
NEMA 12 rating

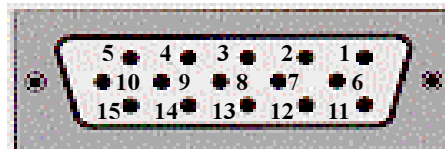
Operating Temperature:
0° F - 120° F (-18° C - 50° C)

Storage Temperature:
-40° F - 158° F (-40° C - 70° C)

Relative Humidity:
0 to 95% noncondensing

ELECTRICAL TERMINATION

DB-15 Connector (Female)



- 1 CTS
- 2 RXD
- 3 TXD
- 4 RTS
- 5 Ground (Power)
- 6 Default (RS232)
- 7 No Compare (output)
- 8 Gate Input
- 9 No Read (output)
- 10 Good Read (output)
- 11 Good Compare (output)
- 12 Reset
- 13 BKAM
- 14 Case Ground
- 15 +5v (Power)

POWER REQUIREMENT

5+/- - 5 % VDC @ 120 mA

OPTICAL CHARACTERISTICS

Illumination:
5mw solid state laser diode

Wavelength:
670 nm (nominal)

Scan Speed:
60 - 300 scans/second

Scan Patterns:
Line

Scan Width:
50 degrees/effective

Read Range:
2 - 12 inches - label dependent

LABEL ORIENTATION

Scan Angle: 50 degrees

Scan Pitch: 45 degrees

Scan Skew: 45 degrees

READ RANGE AND SCAN WIDTH

Narrow Bar Width	Depth of Field	Scan Width
.0075	2.9" - 6.5"	50 degrees
.010	2.9" - 9.0"	50 degrees
.020	2.9" - 12.0"	50 degrees

This chart is based on a standard focal point 4 inches with a 6.7 mil spot size using grade A type labels. Actual depth of field, scan widths will be label dependent based on label quality .

OPERATING CHARACTERISTICS

Gate Parameters:

Gate Input - pkg. detect/laser tracking

Four Outputs:

1. Good Read
2. No Read
3. Good Compare
4. No Compare

Active high or low set in
5m Sec. increments

Communications:

RS 232
Baud Rate - 300 to 38.4K
Data - 7 or 8 bits
Parity - None, Even, Odd
Stop - 1 or 2

Compare Buffer:

1 - 20 (127 digits/characters max.)

STANDARD FEATURES

Flash Memory:

Allows infield upgrades

FACTORY OPTIONS

Scan Speed:

40 to 250 scans/second

Focal Point:

Adjustable for spot size and

narrow element



Light Source:

Standard 670nm, optional 780nm

5mw laser diode

Symbologies:

Specials available depending on quantity

Firmware:

Custom configurations

Environmental:

Standard NEMA 12

CERTIFICATIONS

Laser Classification:

DHHS Class II, CE

WARRANTY

Parts and Labor: One year