BCR5242
Video/CCD Scanner

MACHINE MOUNT SCANNER

FEATURES

- **VIDEO/CCD imager**
The scanning system is functionally identical to a solid state, one line, TV camera. There are no moving parts to wear out, break or adjust.

- **Triggering Options**
The scanner can be operated with an external trigger or in the autotrigger mode, providing operational flexibility.

- **Viewing Options**
Both end and side scanning models are available. The side scanning option is well suited for extreme space limitations.

- **Large Depth of Field**
The scanner has a depth of field of up to 2 inches (5cm.), allowing considerable flexibility in scanner/label positioning.

- **Small size**
The compact design and convenient mounting make the BCR5242 easy to install in tight quarters.

- **Low power consumption**
The scanner operates at 5VDC and only consumes 130mA of current.

- **Reads all standard symbologies**
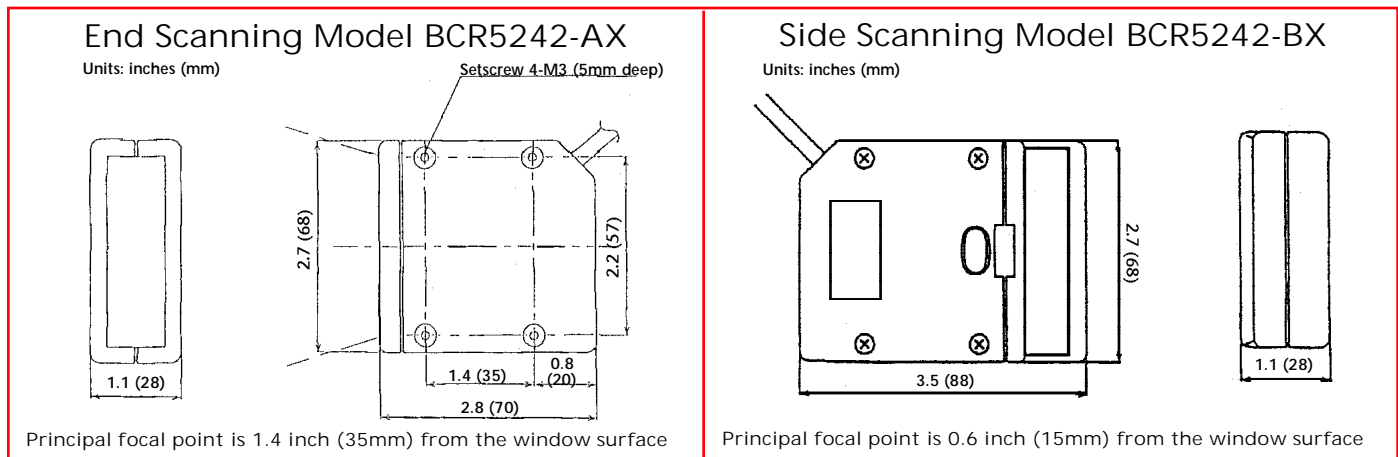Reads and autodiscriminates Code 39, Code 93, Code 128, CODABAR, 2 of 5, I 2 of 5 and UPC/EAN

- **Reads poorly printed symbols**
The advanced circuitry and optical design of the BCR5242 allows the scanner to reliably read poor contrast and soiled symbols.

BCR5242 Specifications

Series	BCR 5242
Interface	RS-232-interface is built into scanner
Readable bar codes	CODE39, CODABAR, 2 of 5, I 2 of 5, CODE128 and CODE93, UPC/EAN
Bar code width	3.1 inch (79mm) wide symbol at principal focal point.
Min. resolution	6 mils. (1.5 mm)
Depth of field	2.0 in. (50 mm) TYP. (UPC/EAN standard label x 1, PCS: 0.9)
Scan Rate	120 scans/sec.
Light source	Red LED (wavelength: 660nm)
Detecting element	VIDEO/CCD imager-one line/2048 pixels
Min. PCS value	0.3 (white reflection: 85% or more)
Reading start method	Auto or manual triggering
Reading indicator	Beeper and LED
Set up	Symbology and RS-232 variables are set by bar code menu or host computer
Power requirements	130mA at 5 VDC +/- 5%
Weight (without cable)	4.2 oz. (120 g)
Cable length	6.6 ft. (2 m)
Max. external illumination	8000 lux
Operating temperature	32° F to 104°F (0°C to 40°C)
Operating humidity	20% to 85% RH (non-condensing)
EMI/RFI standard	FCC Class A

Mechanical Design

End Scanning Model BCR5242-AX

Units: inches (mm)

Setscrew 4-M3 (5mm deep)

2.7 (68) 2.2 (57) 1.1 (28) 1.4 (35) 0.8 (20) 2.8 (70)

Principal focal point is 1.4 inch (35mm) from the window surface

Side Scanning Model BCR5242-BX

Units: inches (mm)

2.7 (68) 3.5 (88) 1.1 (28)

Principal focal point is 0.6 inch (15mm) from the window surface

BCR5242 Ordering Number Chart

Model Configuration	PC COM port End Scan	PC COM port Side Scan	Omron PLC End Scan	Omron PLC Side Scan
Omron Part Number	BCR5242-AR	BCR5242-BR	BCR5242-AP	BCR5242-BP

DENSEI USA

2030 Silver Lake Road, Suite 120
New Brighton, MN 55112
Tel: 651-636-3030
Fax: 651-636-2950
Toll Free: 888-410-3030

e-mail: support@densei.com
Website: http://www.densei.com

Omron Electronics, Inc.

One Commerce Drive
Schaumburg, Illinois 60173-5302
Tel: 847-834-7900
Fax: 847-843-8261
Toll Free: 800-55-OMRON

website, global: http://www.omron.com
website, USA: http://www.omron.com/oei

*Specifications are subject to change without notice.