

# 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, 1 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.

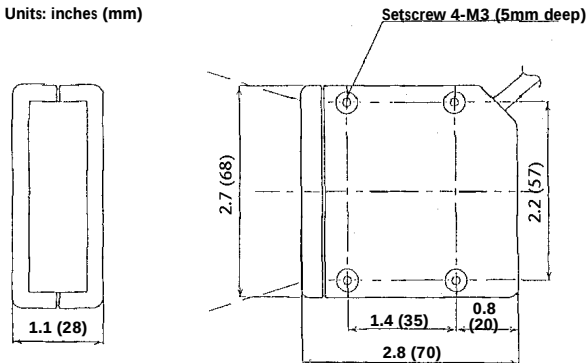
## BCR5242 Specifications

| 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

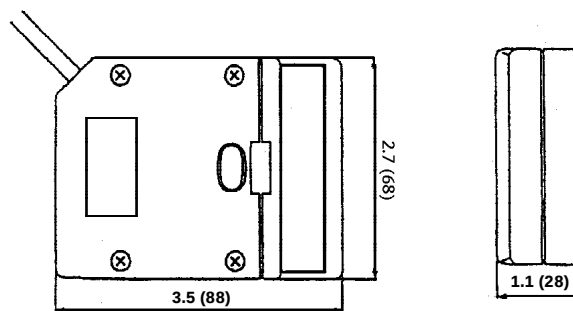
Units: inches (mm)



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

### Side Scanning Model BCR5242-BX

Units: inches (mm)



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

## BCR5242 Ordering Number Chart

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

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\*Specifications are subject to change without notice.

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