



**Performance Characteristics**

|                           |   |   |  |  |  |  |  |  |  |   |
|---------------------------|---|---|--|--|--|--|--|--|--|---|
| <b>Technology</b>         | Area Imaging  | Area Imaging  | Linear Imaging   | Linear Imaging   | Linear Imaging   | Linear Imaging   | Linear Imaging   | Linear Imaging   | Linear Imaging   | Linear Imaging  |
| <b>Print Contrast</b>     | 20% minimum reflective difference   | 20% minimum reflective difference   | 20% minimum reflective difference  | 20% minimum reflective difference  | 20% minimum reflective difference  | 10% minimum reflective difference  | 15% minimum reflective difference  | 15% minimum reflective difference  | 15% minimum reflective difference  | 20% minimum reflective difference   |
| <b>Minimum Resolution</b> | <b>SR Model</b><br>3.3 mil Code 39<br>7 mil DM<br><b>HD Model</b><br>2.7 mil Code 39<br>5 mil DM  | <b>SR Model</b><br>3.3 mil Code 39<br>7 mil DM<br><b>HD Model</b><br>2.7 mil Code 39<br>5 mil DM  | Typical 3 mil (Code 39, PCS 0.9)   | Typical 3 mil (Code 39, PCS 0.9)   | Typical 3 mil (Code 39, PCS 0.9)   | Typical 3 mil (Code 39, PCS 0.9)   | Typical 3 mil (Code 39, PCS 0.9)   | Typical 3 mil (Code 39, PCS 0.9)   | Typical 3 mil (Code 39, PCS 0.9)   | Typical 3 mil (code 39, PCS 0.9)  |
| <b>Working Distance</b>   | <b>SR Model</b><br>5 mil (0.13mm) C39 3.8-19.5cm (1.5"-7.7")<br>13 mil (0.33mm) EAN 2.4-40.5cm (0.9"-15.9")<br>10 mil (0.25mm) DM 3.0-20.0cm (1.2"-7.9")<br><b>HD Model</b><br>3 mil (0.076mm) C39 2.2-9.6cm (0.9"-3.8")<br>5 mil (0.13mm) C39 2.8-11.5cm (1.1"-4.5")<br>13 mil (0.33mm) EAN 1.8-20.3cm (0.7"-8.0")<br>5 mil (0.13mm) DM 2.8-7.5cm (1.1"-3.0")<br>10 mil (0.25mm) DM 1.2-12.0cm (0.5"-4.7") | <b>SR Model</b><br>5 mil (0.13mm) C39 3.8-19.5cm (1.5"-7.7")<br>13 mil (0.33mm) EAN 2.4-40.5cm (0.9"-15.9")<br>10 mil (0.25mm) DM 3.0-20.0cm (1.2"-7.9")<br><b>HD Model</b><br>3 mil (0.076mm) C39 2.2-9.6cm (0.9"-3.8")<br>5 mil (0.13mm) C39 2.8-11.5cm (1.1"-4.5")<br>13 mil (0.33mm) EAN 1.8-20.3cm (0.7"-8.0")<br>5 mil (0.13mm) DM 2.8-7.5cm (1.1"-3.0")<br>10 mil (0.25mm) DM 1.2-12.0cm (0.5"-4.7") | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20 mil Code 39                   | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20 mil Code 39                   | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20 mil Code 39                   | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20mil code 39                    | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20 mil Code 39                   | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20 mil Code 39                   | Up to 24 inches on 100% UPC/EAN symbols<br>Up to 34 inches on 20 mil Code 39                   | More than 13 inches on 100% UPC/EAN symbols<br>Up to 18 inches on 20-mil Code 39      |
| <b>Light Source</b>       | Aiming Pattern : 630nm LED<br>Illumination : 630nm LED  | Aiming Pattern : 630nm LED<br>Illumination : 630nm LED  | 630nm visible red LED with laser aiming  | 630nm visible red LED with laser aiming  | 630nm visible red LED with laser aiming  | 630nm visible red LED  | 630nm visible red LED  | 630nm visible red LED  | 630nm visible red LED  | 630nm visible red LED   |
| <b>Operating Modes</b>    | Trigger, Toggle, Force, Level, Diagnostic, Alternative, Low power, Presentation, Multiple read  | Trigger, Toggle, Force, Level, Diagnostic, Alternative, Low power, Presentation, Multiple read  | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation          | Toggle, Trigger, Force, Level, Flash, Diagnostic Alternative, Low power, Presentation |
| <b>User Interfaces</b>    | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator  | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator  | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | 3 LEDs for power, good read and status indications<br>Programmable beeper<br>Optional vibrator | Blue LED indications<br>Programmable beeper<br>Optional vibrator                      |

**Supported Symbolgies**

|  |  |  |   |  |   |   |   |  |   |   |
|--|--|--|---|--|---|---|---|--|---|---|
|  | 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite, 2D | 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite, 2D | L780 : 1D, Linear-stacked   | L780 HC : 1D, Linear-stacked   | L680 : 1D, Linear-stacked   | F790 : 1D, Linear-stacked   | F780 : 1D, Linear-stacked   | F780 HC : 1D, Linear-stacked   | F680 : 1D, Linear-stacked   | F560 : 1D, Linear-stacked   |
|  |  |  | L788 : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | L788 HC : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | L688 : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | F798 : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | F788 : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | F788 HC : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | F688 : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite | F568 : 1D, Linear-stacked, PDF417, Micro PDF417, Codablock, Composite |

**User Environment**

|                                     |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------|--|--|--|--|--|--|--|--|--|--|
| <b>Drop Specifications</b>          | Withstand 10 drops at 2.0m / 6.6ft to concrete | Withstand 10 drops at 2.0m / 6.6ft to concrete | Withstand 10 drops at 6.6ft / 2.0m to concrete | Withstand 10 drops at 6.6ft / 2.0m to concrete | Withstand 10 drops at 6.0ft / 1.8m to concrete | Withstand 10 drops at 6.6ft / 2.0m to concrete | Withstand 10 drops at 6.6ft / 2.0m to concrete | Withstand 10 drops at 6.6ft / 2.0m to concrete | Withstand 10 drops at 6.0ft / 1.8m to concrete | Withstand multiple 1.6m/5.2ft. drops to concrete |
| <b>Environmental Sealing</b>        | IP41   | IP41   | IP42   | IP42   | IP42   | IP42   | IP42   | IP42   | IP42   | IP41   |
| <b>Operating Temperature</b>        | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)              | -10 °C to 50 °C (14 °F to 122 °F)                |
| <b>Storage Temperature</b>          | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)             | -40 °C to 70 °C (-40 °F to 158 °F)               |
| <b>Humidity</b>                     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing     | 5% to 95% related humidity, non-condensing       |
| <b>Ambient Light Immunity</b>       | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 100,000 lux                                | 0 ~ 80,000 lux                                   |
| <b>Recommend cleaning solutions</b> |  | Gentle dish soap water or alcohol solvent      |  | Gentle dish soap water or alcohol solvent      |  |  |  | Gentle dish soap water or alcohol solvent      |  |  |

**Physical Characteristics**

|                  |  |  |  |  |  |  |  |  |  |  |
|------------------|--|--|--|--|--|--|--|--|--|--|
| <b>Dimension</b> | 95.0 mm (L) x 70.5 mm (W) x 161.7 mm (D)<br>3.74 in. (L) x 2.77 in. (W) x 6.36 in. (D) | 95.0 mm (L) x 70.5 mm (W) x 161.7 mm (D)<br>3.74 in. (L) x 2.77 in. (W) x 6.36 in. (D) | 97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D)<br>3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D) | 97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D)<br>3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D) | 97.0 mm (L) x 65.0 mm (W) x 156 mm (D)<br>3.81 in. (L) x 2.55 in. (W) x 6.14 in. (D) | 97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D)<br>3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D) | 97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D)<br>3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D) | 97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D)<br>3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D) | 97.0 mm (L) x 65.0 mm (W) x 156 mm (D)<br>3.81 in. (L) x 2.55 in. (W) x 6.14 in. (D) | 165.0 mm (L) x 64.7 mm (W) x 38.7 mm (D)<br>6.50 in. (L) x 2.55 in. (W) x 1.52 in. (D) |
| <b>Weight</b>    | 152g (cable excluded)  | 152g (cable excluded)  | 157g (cable excluded)  | 157g (cable excluded)  | 125g (without cable)   | 157g (cable excluded)  | 157g (cable excluded)  | 157g (cable excluded)  | 125g (without cable)   | 106g   |
| <b>Color</b>     | Black  | Plastic: Healthcare White<br>Over-mold: Light Blue                                     | Light Gray or Black  | Plastic: Healthcare White<br>Over-mold: Light Blue                                     | Light Gray or Black  | Black  | Light Gray or Black  | Plastic: Healthcare White<br>Over-mold: Light Blue                                     | Light Gray or Black  | Light Gray or Black  |
| <b>Current</b>   | Operating : Typical 350 mA @5VDC<br>Standby : Typical 180 mA @5VDC                     | Operating : Typical 350 mA @5VDC<br>Standby : Typical 180 mA @5VDC                     | Operating : Typical 190 mA @5VDC<br>Standby : Typical 90 mA @5VDC                      | Operating : Typical 190 mA @5VDC<br>Standby : Typical 90 mA @5VDC                      | Operating : Typical 190 mA @5VDC<br>Standby : Typical 90 mA @5VDC                    | Operating : Typical 180 mA @5VDC<br>Standby : Typical 80 mA @5VDC                      | Operating : Typical 180 mA @5VDC<br>Standby : Typical 80 mA @5VDC                      | Operating : Typical 180 mA @5VDC<br>Standby : Typical 80 mA @5VDC                      | Operating : Typical 180 mA @5VDC<br>Standby : Typical 80 mA @5VDC                    | Operating : Typical 170 mA @5VDC<br>Standby : Typical 75 mA @5VDC                      |