Model Selection - $\mathbf{7 0}$ Series Sensor Heads (Connection is by 9-foot cable (©)

|  | Sensing Range by Control Unit ${ }^{(2)(3)}$ |  |  |  | Field of View | Construction Case/ Lens | Operating Temperature; NEMA Ratings | Wavelength | Catalog Number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A <br> 8171B in <br> High Gain <br> Mode | B <br> 8171B in <br> Normal Gain Mode | C <br> 8170A, <br> 8771A or <br> 8772A | D 8172A or 8173A Analog |  |  |  |  |  |
| Thru-Beam <br> Right-Angle Viewing Threaded Housing | $\begin{aligned} & 15 \text { feet } \\ & (4.5 \mathrm{~m}) \end{aligned}$ | 5.5 feet <br> (1.6m) | 3 feet (0.9m) | - | Source: $25^{\circ}$ <br> Detector: $45^{\circ}$ Effective Beam: 0.10 inch ( 3 mm ) | Stainless Steel body; Plastic lens | $-40^{\circ}$ to $176^{\circ} \mathrm{F}$ (-40 to $80^{\circ} \mathrm{C}$ ) NEMA 4,13 | 925 nm | Source: <br> 1179A-6501 <br> Detector: <br> 1279A-6501 |
| Thru-Beam Forward Viewing Smooth Housing | $\begin{aligned} & 32 \text { feet } \\ & (9.7 \mathrm{~m}) \end{aligned}$ | $\begin{aligned} & 10.2 \text { feet } \\ & (3.1 \mathrm{~m}) \end{aligned}$ | 6 feet <br> (1.8m) | - | Source: $10^{\circ}$ <br> Detector: $25^{\circ}$ Effective Beam: 0.15 inch ( 4 mm ) | Aluminum body; Glass lens | $\begin{aligned} & -40^{\circ} \text { to } 232^{\circ} \mathrm{F} \\ & \left(-40^{\circ} \text { to } 100^{\circ} \mathrm{C}\right) \\ & \text { NEMA } 1 \end{aligned}$ | 880 nm | Source: <br> 1170A-300 <br> Detector: <br> 1270A-300 |
| Thru-Beam Forward Viewing Threaded Housing | $\begin{aligned} & 31.2 \text { feet } \\ & (9.5 \mathrm{~m}) \end{aligned}$ | $\begin{aligned} & 10.2 \text { feet } \\ & (3.1 \mathrm{~m}) \end{aligned}$ | 6 feet <br> (1.8m) | - | Source: $10^{\circ}$ <br> Detector: $25^{\circ}$ <br> Effective Beam: <br> 0.15 inch ( 4 mm ) | Stainless Steel body; Lexan (Acrylic) lens | $-40^{\circ}$ to $176^{\circ} \mathrm{F}$ $\left(-40^{\circ}\right.$ to $\left.80^{\circ} \mathrm{C}\right)$ NEMA $3,4,6$, 12,13 | 940 nm | Source: <br> 1173A-300 <br> Detector: <br> 1273A-300 |
| Thru-Beam Forward Viewing Threaded Housing | $\begin{aligned} & 369 \text { feet } \\ & (112 \mathrm{~m}) \end{aligned}$ | $\begin{aligned} & 123 \text { feet } \\ & (37.5 \mathrm{~m}) \end{aligned}$ | 71 feet (21.6m) | - | Source: $2^{\circ}$ <br> Detector: $2^{\circ}$ <br> Effective Beam: <br> 0.55 inch ( 14 mm ) | Aluminum body; Glass lens | $-40^{\circ}$ to $176^{\circ} \mathrm{F}$ $\left(-40^{\circ}\right.$ to $\left.80^{\circ} \mathrm{C}\right)$ NEMA $4,6,13$ | 880 nm | Source: <br> 1173A-100 <br> Detector: <br> 1273A-100 |
| Thru-Beam ${ }^{(4)}$ Forward Viewing Threaded Housing | 743 feet (226m) | 248 feet <br> (75.6m) | 143 feet (43.6m) | - | Source: $10^{\circ}$ <br> Detector: $25^{\circ}$ <br> Effective Beam: <br> 0.15 inch ( 4 mm ) | Aluminum body; Glass lens | $\begin{aligned} & -40^{\circ} \text { to } 176^{\circ} \mathrm{F} \\ & \left(-40^{\circ} \text { to } 80^{\circ} \mathrm{C}\right) \\ & \text { NEMA } 4,6,13 \end{aligned}$ | 880 nm | Source: <br> 1173A-200 <br> Detector: <br> 1273A-200 |
| Reflex Includes Retroreflecto | Do not use in this mode | $\begin{aligned} & \text { 23 feet } \\ & \text { (7m) } \end{aligned}$ | 15 feet (4.5m) | - | 0.75 inch (19 mm) diameter at 24 inches ( 610 mm ) | Cast Zinc body; Acrylic lens | $\begin{aligned} & -40^{\circ} \text { to } 176^{\circ} \mathrm{F} \\ & \left(-40^{\circ} \text { to } 80^{\circ} \mathrm{C}\right) \\ & \text { NEMA } 1 \end{aligned}$ | 940 nm | 1470A-6501 |

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[^0]:    (1) See Control Unit specification for restrictions on longer length cables, see Accessories for extension cable.
    (2) Sensing ranges are based on a 3 -inch retroreflector for reflex; $90 \%$ reflectance white card for diffuse reflective.
    ${ }^{(3)}$ For gain graphs and additional specifications, see Page 6-106.
    (4) Precise alignment must be maintained for this model. Catalog Number 6142A or 6168A mounting brackets are recommended.

