# Photoelectric Sensors Selection Guide

## MS Series DC
- **Description**: 18mm plastic with background suppression, DC
- **Sensing Distances**: Diffuse: 1m, Reflective: 3m, Through-beam: 20m
- **Output State**: N.O. / N.C. selectable
- **Logic Output**: NPN / PNP
- **Connection Type**: Axial cable / M12 connector
- **Supply Voltage**: 10 to 30 VDC
- **Switching Frequency**: 80Hz
- **Rating**: IEC IP67

## FARS Series DC
- **Description**: 18mm diffuse with background suppression
- **Sensing Distances**: Standard distance models: 300mm, Extended distance models: 100mm
- **Output State**: N.O. / N.C. selectable
- **Logic Output**: NPN / PNP
- **Connection Type**: Axial cable / M12 connector
- **Supply Voltage**: 10 to 30 VDC
- **Switching Frequency**: 1kHz
- **Rating**: IEC IP67

## FF Series
- **Description**: IP69K sensors, 18mm stainless steel, DC
- **Sensing Distances**: Diffuse models: 400mm, Reflective models: 2.5m, Through-beam models: 8m
- **Output State**: Light-on, Dark-on
- **Logic Output**: N.O. / N.C. Complementary; Light-on/Dark-on selectable
- **Connection Type**: M12 connector
- **Supply Voltage**: 10 to 30 VDC
- **Switching Frequency**: Diffuse, Polarized reflective and Retro-reflective: 500Hz, Through-beam models: 250Hz
- **Rating**: IEC IP68, IP69K

## FFRS Series
- **Description**: 18mm plastic, DC
- **Sensing Distances**: Diffuse models: 100mm, 200mm, 400mm, Reflective models: 2m, Through-beam models: 8m
- **Output State**: N.O. / N.C. selectable
- **Logic Output**: NPN / PNP
- **Connection Type**: M12 connector
- **Supply Voltage**: 10 to 30 VDC
- **Switching Frequency**: Diffuse and reflective models: 800Hz, Through-beam models: 1kHz
- **Rating**: IEC IP67

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## FA Series LED DC
- **Description**: 18mm plastic, DC
- **Sensing Distances**: Diffuse models: 1m, Reflective models: 3m, Through-beam: 20m
- **Output State**: Complementary N.O. / N.C.
- **Logic Output**: NPN / PNP
- **Connection Type**: Axial cable / M12 connector
- **Supply Voltage**: 10 to 30 VDC
- **Switching Frequency**: 250Hz
- **Rating**: IEC IP67

## FA Series Laser DC
- **Description**: 18mm plastic or metal, DC
- **Sensing Distances**: Diffuse models: 300mm, Reflective models: 20m, Through-beam models: 50m
- **Output State**: Complementary N.O. / N.C.
- **Logic Output**: NPN / PNP
- **Connection Type**: Axial cable / M12 connector
- **Supply Voltage**: 10 to 30 VDC
- **Switching Frequency**: Diffuse and reflective models: 800Hz, Through-beam models: 1kHz
- **Rating**: IEC IP67

## FB Series DC
- **Description**: 18mm plastic, DC
- **Sensing Distances**: Diffuse models: 100mm, 200mm, 400mm, Reflective models: 2m, Through-beam models: 8m
- **Output State**: Light-on, Dark-on
- **Logic Output**: NPN / PNP
- **Connection Type**: M12 connector
- **Supply Voltage**: 10 to 30 VDC
- **Switching Frequency**: Standard: 1kHz, Shiny: 400Hz
- **Rating**: IEC IP68, IP69K

## SS Series DC
- **Description**: 18mm plastic, DC
- **Sensing Distances**: Diffuse models: 100mm, 200mm, 400mm, Reflective models: 2m, Through-beam models: 8m
- **Output State**: N.O. / N.C. selectable
- **Logic Output**: NPN / PNP
- **Connection Type**: M12 connector
- **Supply Voltage**: 10 to 30 VDC
- **Switching Frequency**: Standard: 1kHz, Shiny: 400Hz
- **Rating**: IEC IP68, IP69K
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<th>DM Series DC</th>
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<tbody>
<tr>
<td><strong>Description</strong></td>
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<td>18mm plastic, AC</td>
<td>5mm stainless steel, DC</td>
<td>8mm Through-Beam</td>
<td>12mm nickel-plated brass with Teach operating distance function, DC</td>
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<tr>
<td><strong>Sensing Distances</strong></td>
<td>Standard distance models: 50mm Extended distance models: 100mm</td>
<td>Diffuse: 100mm, 200mm, 400mm Retroreflective: 3m Through-beam: 16m</td>
<td>Diffuse models: 50mm Through-beam models: 250mm</td>
<td>1000 mm / Ex. gain = 2</td>
<td>Diffuse models: 100mm, 300mm Retroreflective models: 2m Through-beam: 4m</td>
</tr>
<tr>
<td><strong>Logic Output</strong></td>
<td>Triac</td>
<td>Triac</td>
<td>NPN / PNP / N.O. only</td>
<td>NPN / PNP</td>
<td>NPN / PNP</td>
</tr>
<tr>
<td><strong>Connection Type</strong></td>
<td>M12 quick disconnect</td>
<td>Axial cable</td>
<td>Axial cable</td>
<td>Axial cable</td>
<td>M12 connector</td>
</tr>
<tr>
<td><strong>Switching Frequency</strong></td>
<td>25Hz</td>
<td>25Hz</td>
<td>250Hz</td>
<td>10kHz</td>
<td>Diffuse and retroreflective models: 400Hz Through-beam models: 250Hz</td>
</tr>
</tbody>
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<tr>
<th>Specification</th>
<th>C18 Series DC</th>
<th>GX Series DC</th>
<th>QM Series DC</th>
<th>FM Series DC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>18mm nickel-plated brass, DC</td>
<td>18mm rectangular plastic, DC</td>
<td>Mini-rectangular plastic, DC</td>
<td>Harsh Duty, rectangular metal, DC</td>
</tr>
<tr>
<td><strong>Sensing Distances</strong></td>
<td>Diffuse models: up to 600mm Diffuse models w/ background suppression: 10–120 mm Retroreflective models: Up to 2m Through-beam models: Up to 6m</td>
<td>Diffuse models w/ background suppression: Up to 150mm Retroreflective models: Up to 4m Through-beam models: Up to 20m</td>
<td>Diffuse models: 100mm, 400mm, 1m, 1.5m Diffuse with background suppression: 200mm, 400mm Retroreflective models: 7m Retroreflective transparent objects: 1m, 1.5m, 4m Through-beam: 20m, 30m</td>
<td>Diffuse models: 0.5m Diffuse with background suppression: 0.2m Polarized retroreflective: Up to 5m Through-beam: Up to 10m</td>
</tr>
<tr>
<td><strong>Logic Output</strong></td>
<td>NPN / PNP / receiver dependent</td>
<td>NPN / PNP / receiver dependent</td>
<td>NPN / PNP</td>
<td>NPN / PNP</td>
</tr>
<tr>
<td><strong>Connection Type</strong></td>
<td>Axial cable / M12 connector</td>
<td>M12 connector</td>
<td>Axial cable / M8 connector</td>
<td>Axial cable / M8 connector / 0.3 m cable with M12 QD connector</td>
</tr>
<tr>
<td><strong>Operating Voltage</strong></td>
<td>10–36 VDC</td>
<td>10–30 VDC</td>
<td>10–30 VDC</td>
<td>10–30 VDC</td>
</tr>
<tr>
<td><strong>Switching Frequency</strong></td>
<td>Diffuse models: 1kHz Diffuse models w/ background suppression: 500Hz Polarized retroreflective models: 1kHz Through-beam models: 1kHz</td>
<td>1kHz</td>
<td>1kHz, 2kHz</td>
<td>1kHz</td>
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<tr>
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<th>CX Series DC</th>
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<th>OPT (Transit Time) Series</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Mini-rectangular plastic, DC</td>
<td>Mini-rectangular plastic, DC</td>
<td>Photoelectric reflex laser distance measuring sensors. 50 x 50 mm rectangular housing.</td>
<td>Photoelectric transit time laser distance measuring sensors. 32 x 22 mm, 50 x 50 mm, and 81 x 55 mm rectangular housing.</td>
</tr>
<tr>
<td><strong>Sensing Distances</strong></td>
<td>Diffuse models: 800mm</td>
<td>Diffuse models: up to 600mm</td>
<td>Diffuse models: 80mm, 160mm, 300mm, 660mm</td>
<td>Diffuse models: 1m, 3m, 3.05 m, 6.2 m, 10.1 m</td>
</tr>
<tr>
<td></td>
<td>Retroreflective models: 4m</td>
<td>Diffuse models w/ background suppression: 15–150 mm</td>
<td></td>
<td>Retroreflective models: 100.2 m</td>
</tr>
<tr>
<td></td>
<td>Through-beam: 12m</td>
<td>Retroreflective models: Up to 2m</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N.O. / N.C. selectable</td>
<td>Two selectable N.O. / N.C.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Antivalent N.O./N.C. selectable</td>
</tr>
<tr>
<td><strong>Logic Output</strong></td>
<td>NPN / PNP</td>
<td>NPN / PNP</td>
<td>PNP, NPN or Push-Pull</td>
<td>PNP or PNP/NPN</td>
</tr>
<tr>
<td><strong>Connection Type</strong></td>
<td>Axial cable / M8 connector</td>
<td>Axial cable / M8 connector</td>
<td>5-pin M12 connector</td>
<td>4-pin M8, 5-pin M12, 8-pin M12, and pigtail connectors</td>
</tr>
<tr>
<td><strong>Operating Voltage</strong></td>
<td>10–30 VDC</td>
<td>10–36 VDC</td>
<td>18–30 VDC, 10–30 VDC</td>
<td>18–30 VDC, 10–30 VDC</td>
</tr>
<tr>
<td><strong>Switching Frequency</strong></td>
<td>1kHz</td>
<td>1kHz</td>
<td>1kHz</td>
<td>50Hz, 250Hz, 1kHz</td>
</tr>
<tr>
<td><strong>Rating</strong></td>
<td>IEC IP67</td>
<td>IEC IP65</td>
<td>IEC IP67</td>
<td>IEC IP68</td>
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<table>
<thead>
<tr>
<th>Specification</th>
<th>OPT Color Series</th>
<th>OPT Contrast Series</th>
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<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Color Sensors</td>
<td>Contrast Sensors</td>
</tr>
<tr>
<td><strong>Sensing Distances</strong></td>
<td>30–40 mm</td>
<td>12–40 mm</td>
</tr>
<tr>
<td><strong>Output State</strong></td>
<td>Light-on/Dark-on selectable</td>
<td>OPT2024 / OPT2025: N.O.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All other models: N.O. and N.C. Complementary</td>
</tr>
<tr>
<td><strong>Logic Output</strong></td>
<td>NPN or PNP</td>
<td>NPN or PNP</td>
</tr>
<tr>
<td><strong>Connection Type</strong></td>
<td>8-pin M12</td>
<td>OPT2024 / OPT2025: 4-pin M12 quick-disconnect</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All other models: 8-pin M12 quick-disconnect</td>
</tr>
<tr>
<td><strong>Operating Voltage</strong></td>
<td>10–30 VDC</td>
<td>10–30 VDC</td>
</tr>
<tr>
<td><strong>Switching Frequency</strong></td>
<td>1.8 kHz</td>
<td>OPT2024 / OPT2025: 5kHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All other models: 25kHz</td>
</tr>
<tr>
<td><strong>Rating</strong></td>
<td>IP68</td>
<td>IP67</td>
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## FW Series DC

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>30mm mount, metal, DC</td>
<td>Fiberglass-reinforced plastic</td>
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## CH Enhanced 50 Series

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diffuse w/background suppression models:</td>
<td>Through-beam: 500 ft (152m)</td>
</tr>
<tr>
<td>Adjustable 50 to 800 mm, Fixed to 600mm</td>
<td>Diffuse models: 10 ft (3m)</td>
</tr>
<tr>
<td>Polarized retroreflective models: 0.1–15 m</td>
<td>Polarized retroreflective: 16 ft (4.9 m)</td>
</tr>
<tr>
<td>Clear /object detector: 45 in (12. m)</td>
<td></td>
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## Output State

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Diffuse w/background suppression models: Light-on</td>
<td>Light-on/Dark-on selectable</td>
</tr>
<tr>
<td>Polarized retroreflective models: Light-on or Dark-on</td>
<td></td>
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</tbody>
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## Logic Output

<table>
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<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>PNP/NPN</td>
<td></td>
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## Connection Type

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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<tr>
<td>M12 (12mm) connector</td>
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## Operating Voltage

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<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 to 30 VDC</td>
<td>Cable or mini/micro connection</td>
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## Switching Frequency

<table>
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<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>Various</td>
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## Rating

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<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>IEC IP67</td>
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## DFT Series Fiber Amp

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<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>Compact rectangular plastic fiber optic amplifier with teach operating distance function, DC</td>
<td>Fiber optic amplifiers. Single and multi-fiber units.</td>
</tr>
</tbody>
</table>

## DFP Series Fiber Amp

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Compact rectangular plastic fiber optic amplifier, DC</td>
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</tbody>
</table>

## OPT Series Fiber Amp

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>Fiber optic amplifiers. Single and multi-fiber units.</td>
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## Specification

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<tr>
<th>Specification</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Sensing Distances</td>
<td>See Optical Fiber Tables following the amplifier's specifications</td>
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## Output State

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<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>Light-on / Dark-on selectable</td>
<td>Light-on / Dark-on selectable</td>
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## Logic Output

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<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>NPN / PNP</td>
<td>NPN / PNP / Push Pull</td>
</tr>
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</table>

## Connection Type

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Axial cable / M8 connector</td>
<td>OPT2040/OPT2041: M8 4 pole, OPT2042: M12 4 pole, M12 8 pole</td>
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## Supply Voltage

<table>
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<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>10 to 30 VDC</td>
<td>OPT2040: 10-30 VDC, OPT2041: 18-30 VDC, OPT2042: 18-30 VDC</td>
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## Switching Frequency

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<tr>
<th>Specification</th>
<th>Description</th>
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<tbody>
<tr>
<td>1.5 kHz</td>
<td>OPT2040: 2kHz, OPT2041: 4kHz, OPT2042: 2kHz</td>
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## Rating

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<th>Description</th>
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<th>OPT Series Glass Fibers</th>
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<td>18mm plastic fiber optic amplifier, DC</td>
<td>Cutable diffuse reflection and through-beam fiber optic cables (2.2 mm diameter)</td>
<td>Glass fiber optic cables diffuse reflection and through-beam (1.6 mm Diameter)</td>
</tr>
<tr>
<td><strong>Sensing Distances</strong></td>
<td>See Optical Fiber Tables following the amplifiers specifications</td>
<td>Amplifier dependent. Refer to fiber optic tables for sensing distances.</td>
<td>Amplifier dependent. Refer to Fiber Optic tables for sensing distances.</td>
</tr>
<tr>
<td><strong>Output State</strong></td>
<td>Light-on / Dark-on selectable</td>
<td>Amplifier dependent</td>
<td>Amplifier dependent</td>
</tr>
<tr>
<td><strong>Logic Output</strong></td>
<td>NPN / PNP</td>
<td>Amplifier dependent</td>
<td>Amplifier dependent</td>
</tr>
<tr>
<td><strong>Connection Type</strong></td>
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<td>Amplifier dependent</td>
<td>Amplifier dependent</td>
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<tr>
<td><strong>Supply Voltage</strong></td>
<td>10 to 30 VDC</td>
<td>Amplifier dependent</td>
<td>Amplifier dependent</td>
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<tr>
<td><strong>Switching Frequency</strong></td>
<td>800Hz</td>
<td>Amplifier dependent</td>
<td>Amplifier dependent</td>
</tr>
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<td><strong>Rating</strong></td>
<td>IEC IP67</td>
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### Specification Table

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<th>S8 Series Contrast Print Mark Sensors</th>
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</thead>
<tbody>
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<td><strong>Description</strong></td>
<td>Cutable diffuse reflection and through-beam fiber optic cables (2.2mm diameter)</td>
<td>Visible Red, Infrared and Laser Fork Sensors</td>
<td>Metal or plastic contrast print mark sensors</td>
</tr>
<tr>
<td><strong>Sensing Distances</strong></td>
<td>Amplifier dependent. Refer to fiber optic tables for sensing distances.</td>
<td>5mm (0.2 in) to 220mm (8.66 in)</td>
<td>6–12 mm (0.2–0.5 in)</td>
</tr>
<tr>
<td><strong>Output State</strong></td>
<td>N/A</td>
<td>Selectable Light on/Dark on</td>
<td>Selectable light on/dark on</td>
</tr>
<tr>
<td><strong>Logic Output</strong></td>
<td>N/A</td>
<td>NPN / PNP</td>
<td>NPN / PNP</td>
</tr>
<tr>
<td><strong>Connection Type</strong></td>
<td>N/A</td>
<td>M8 Connector or M12 Connector</td>
<td>M8 Connector or 150mm M12 Connector</td>
</tr>
<tr>
<td><strong>Supply Voltage</strong></td>
<td>N/A</td>
<td>10 – 30 VDC</td>
<td>10–30 VDC</td>
</tr>
<tr>
<td><strong>Switching Frequency</strong></td>
<td>N/A</td>
<td>See specifications for specific switching frequencies.</td>
<td>2 kHz</td>
</tr>
<tr>
<td><strong>Rating</strong></td>
<td>IEC IP67</td>
<td>IEC IP67/IP69K</td>
<td>IEC IP67 (S8-PR) / IEC IP69K (S8-MR)</td>
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<th>CX2 Series Area Sensors</th>
<th>BX Series Light Screen</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Basic, standard, or low jitter contrast sensor</td>
<td>Area sensor, sender/receiver pair, object detection, 5mm or 10mm pitch</td>
<td>Area sensor, sender/receiver pair, object detection, 5mm or 10mm pitch</td>
<td>Rectangular plastic high resolution area sensor, DC</td>
</tr>
<tr>
<td><strong>Sensing Distances</strong></td>
<td>6–12 mm [0.2–0.5 in]</td>
<td>3m – 6m [9.8–19.7 in] with up to 320mm height</td>
<td>3m – 6m [9.8–19.7 in] with up to 960mm height</td>
<td>Through-beam: 2m with 70mm height area</td>
</tr>
<tr>
<td><strong>Output State</strong></td>
<td>Selectable light on/dark on. Analog output on select models.</td>
<td>N.O./N.C. configurable</td>
<td>N.O./N.C. configurable, 0-10V, 4-20mA analog out</td>
<td>Selectable N.O./N.C.</td>
</tr>
<tr>
<td><strong>Logic Output</strong></td>
<td>NPN / PNP</td>
<td>PNP</td>
<td>PNP</td>
<td>NPN / PNP</td>
</tr>
<tr>
<td><strong>Connection Type</strong></td>
<td>M12 Connector</td>
<td>(1) 4-pin and (1) 5-pin M12 quick-disconnect</td>
<td>(1) 4-pin and (1) 8-pin M12 quick-disconnect</td>
<td>M12 connector</td>
</tr>
<tr>
<td><strong>Supply Voltage</strong></td>
<td>10–30 VDC</td>
<td>16.8–30 VDC</td>
<td>16.8–30 VDC</td>
<td>12 to 24 VDC</td>
</tr>
<tr>
<td><strong>Switching Frequency</strong></td>
<td>TL46-W - 15 kHz</td>
<td>12.3 Hz – 280 Hz, depending on model.</td>
<td>12.3 Hz – 280 Hz, depending on model.</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Rating</strong></td>
<td>IEC IP67</td>
<td>IEC IP67</td>
<td>IEC IP67</td>
<td>IEC IP67</td>
</tr>
</tbody>
</table>