**EZ-SCREEN®**  
**Type 4 Point-of-Operation**

- Available in 14 mm resolution for finger, hand and ankle detection or 30 mm resolution for hand and ankle detection.
- Operates in ranges from 0.1 to 6 m (14 mm models) and 0.1 to 18 m (30 mm models).
- Offers fixed or 2-beam reduced resolution (floating blanking) to ignore tooling or constant inflow of materials.
- Displays operating status, configuration error codes, and blocked beams.
- User-configurable trip or latch outputs, Scan Code 1 or 2 and Aux output.
- Exceeds OSHA/ANSI Control Reliability requirements, certified to cULus NIPF, and CE certified to Type 4, Cat 4 PLe, and SIL 3.
- Provides external device monitoring (EDM).
- Resists impact, twisting and abusive environments with a durable aluminum housing and metal endcaps.
- Available with standard yellow, clear anodized aluminum housing or nickel-plated ESD-safe housing for protection against electrostatic discharges (other color options available).
- Offers optional cascading to create up to a four sensor system that issues a single stop command.
- Offers optional lens shields and enclosures for added durability.

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**Some of the Available Finishes**

- **Yellow Painted Aluminum**
- **Clear Anodized Aluminum**
- **Nickel-Plated ESD**

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**Interface multiple devices with the SC22-3 Safety Controller. See page 526**
## EZ-SCREEN® (TYPE 4 & TYPE 2)

### EZ-SCREEN® Systems, 14 mm Resolution–0.1 to 6 m Range, 24V dc

<table>
<thead>
<tr>
<th>Defined Area</th>
<th>M12/Euro Connection</th>
<th>Housing Length (L)</th>
<th>Response Time</th>
<th># of Beams</th>
<th>Models*</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 mm</td>
<td>8-pin QD</td>
<td>262 mm</td>
<td>11 ms</td>
<td>20</td>
<td>SLSE14-150Q8 SLSR14-150Q8 SLSP14-150Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 mm</td>
<td>8-pin QD</td>
<td>372 mm</td>
<td>15 ms</td>
<td>40</td>
<td>SLSE14-300Q8 SLSR14-300Q8 SLSP14-300Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>450 mm</td>
<td>8-pin QD</td>
<td>522 mm</td>
<td>19 ms</td>
<td>60</td>
<td>SLSE14-450Q8 SLSR14-450Q8 SLSP14-450Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600 mm</td>
<td>8-pin QD</td>
<td>671 mm</td>
<td>23 ms</td>
<td>80</td>
<td>SLSE14-600Q8 SLSR14-600Q8 SLSP14-600Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>750 mm</td>
<td>8-pin QD</td>
<td>821 mm</td>
<td>27 ms</td>
<td>100</td>
<td>SLSE14-750Q8 SLSR14-750Q8 SLSP14-750Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>900 mm</td>
<td>8-pin QD</td>
<td>971 mm</td>
<td>32 ms</td>
<td>120</td>
<td>SLSE14-900Q8 SLSR14-900Q8 SLSP14-900Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1050 mm</td>
<td>8-pin QD</td>
<td>1120 mm</td>
<td>36 ms</td>
<td>140</td>
<td>SLSE14-1050Q8 SLSR14-1050Q8 SLSP14-1050Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1200 mm</td>
<td>8-pin QD</td>
<td>1270 mm</td>
<td>40 ms</td>
<td>160</td>
<td>SLSE14-1200Q8 SLSR14-1200Q8 SLSP14-1200Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1350 mm</td>
<td>8-pin QD</td>
<td>1420 mm</td>
<td>43 ms</td>
<td>180</td>
<td>SLSE14-1350Q8 SLSR14-1350Q8 SLSP14-1350Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
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<td></td>
</tr>
<tr>
<td>1500 mm</td>
<td>8-pin QD</td>
<td>1569 mm</td>
<td>48 ms</td>
<td>200</td>
<td>SLSE14-1500Q8 SLSR14-1500Q8 SLSP14-1500Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1650 mm</td>
<td>8-pin QD</td>
<td>1719 mm</td>
<td>52 ms</td>
<td>220</td>
<td>SLSE14-1650Q8 SLSR14-1650Q8 SLSP14-1650Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
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<td></td>
</tr>
<tr>
<td>1800 mm</td>
<td>8-pin QD</td>
<td>1869 mm</td>
<td>56 ms</td>
<td>240</td>
<td>SLSE14-1800Q8 SLSR14-1800Q8 SLSP14-1800Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Q8 models: A model with a QD requires a mating cordset (see page 480).

**For a 4-pin M12/Euro pigtail QD with no EDM or TEST functions (GND/PE via mounting), replace Q8 with P4NT on emitter or receiver (example, SLSE14-150P4NT) and Q88 with P55NT on pair model numbers (example, SLSP14-150P55NT).**

### EZ-SCREEN® Systems, 30 mm Resolution–0.1 to 18 m Range, 24V dc

<table>
<thead>
<tr>
<th>Defined Area</th>
<th>M12/Euro Connection</th>
<th>Housing Length (L)</th>
<th>Response Time</th>
<th># of Beams</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 mm</td>
<td>8-pin QD</td>
<td>262 mm</td>
<td>9 ms</td>
<td>10</td>
<td>2 PNP OSSD (Trip/Latch selectable)</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300 mm</td>
<td>8-pin QD</td>
<td>372 mm</td>
<td>11 ms</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>450 mm</td>
<td>8-pin QD</td>
<td>522 mm</td>
<td>13 ms</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600 mm</td>
<td>8-pin QD</td>
<td>671 mm</td>
<td>15 ms</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>750 mm</td>
<td>8-pin QD</td>
<td>821 mm</td>
<td>17 ms</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>900 mm</td>
<td>8-pin QD</td>
<td>971 mm</td>
<td>19 ms</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Q8 models: A model with a QD requires a mating cordset (see page 480).

**For a 4-pin M12/Euro pigtail QD with no EDM or TEST functions (GND/PE via mounting), replace Q8 with P4NT on emitter or receiver (example, SLSE14-150P4NT) and Q88 with P55NT on pair model numbers (example, SLSP14-150P55NT).**

### More information online at bannerengineering.com

**Q8 models: A model with a QD requires a mating cordset (see page 480).**

**ESD-safe models: Add N to the model number, prior to the QD option designation (example, SLSE14-150NQ8). ESD-safe models are not available with the pigtail QD option.**

**Optional housing finishes:**

Prior to the QD designation in the model number, add A for a clear (brushed) anodized aluminum finish, black endcaps (example, SLSE14-150AQ8); B for a nickel-plated (silver) finish, black endcaps (example, SLSE14-150BQ8); N for a white painted finish, black endcaps (example, SLSE14-150NQ8). A pair includes an emitter and receiver (example, SLSE14-150QR8). Emitters (example, SLSE14-150Q8) and receivers (example, SLSE14-150QR8) are also sold separately.

**More information online at bannerengineering.com**

For an emitter with TEST function, replace Q8 with Q5 on emitter model numbers (example, SLSE14-150Q5Q8) and Q88 with Q55N on pair model numbers (example, SLSP14-150Q5Q8).

For a 300 mm M12/Euro pigtail QD, replace Q with P in model numbers (example, SLSP14-150P48).

For a 4-pin 300 mm M12/Euro pigtail QD with no EDM or TEST functions (GND/PE via mounting), replace Q8 with P4NT on emitter or receiver (example, SLSE14-150P4NT) and Q88 with P55NT on pair model numbers (example, SLSP14-150P55NT).

For a 4-pin 300 mm M12/Euro pigtail QD with no EDM or TEST functions (GND/PE via mounting), replace Q8 with P4NT or Q88 with P55NT (example, SLSP14-150P44NT).
### EZ-SCREEN® Systems, 30 mm Resolution—0.1 to 18 m Range, 24V dc (cont’d)

<table>
<thead>
<tr>
<th>Defined Area</th>
<th>M12/Euro Connection</th>
<th>Housing Length (L)</th>
<th>Response Time</th>
<th># of Beams</th>
<th>Output</th>
<th>Emitter</th>
<th>Receiver</th>
<th>Pair 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1050 mm</td>
<td>8-pin QD</td>
<td>1120 mm</td>
<td>21 ms</td>
<td>70</td>
<td></td>
<td>SLSE30-1050Q8</td>
<td>SLSR30-1050Q8</td>
<td>SLSP30-1050Q8</td>
</tr>
<tr>
<td>1200 mm</td>
<td>8-pin Pigtail QD</td>
<td>1270 mm</td>
<td>23 ms</td>
<td>80</td>
<td></td>
<td>SLSE30-1200Q8</td>
<td>SLSR30-1200Q8</td>
<td>SLSP30-1200Q8</td>
</tr>
<tr>
<td>1350 mm</td>
<td>8-pin Pigtail QD</td>
<td>1420 mm</td>
<td>25 ms</td>
<td>90</td>
<td></td>
<td>SLSE30-1350Q8</td>
<td>SLSR30-1350Q8</td>
<td>SLSP30-1350Q8</td>
</tr>
<tr>
<td>1500 mm</td>
<td>8-pin QD</td>
<td>1569 mm</td>
<td>27 ms</td>
<td>100</td>
<td></td>
<td>SLSE30-1500Q8</td>
<td>SLSR30-1500Q8</td>
<td>SLSP30-1500Q8</td>
</tr>
<tr>
<td>1650 mm</td>
<td>8-pin QD</td>
<td>1719 mm</td>
<td>30 ms</td>
<td>110</td>
<td></td>
<td>SLSE30-1650Q8</td>
<td>SLSR30-1650Q8</td>
<td>SLSP30-1650Q8</td>
</tr>
<tr>
<td>1800 mm</td>
<td>8-pin QD</td>
<td>1869 mm</td>
<td>32 ms</td>
<td>120</td>
<td></td>
<td>SLSE30-1800Q8</td>
<td>SLSR30-1800Q8</td>
<td>SLSP30-1800Q8</td>
</tr>
<tr>
<td>1950 mm</td>
<td>8-pin QD</td>
<td>2018 mm</td>
<td>34 ms</td>
<td>130</td>
<td></td>
<td>SLSE30-1950Q8</td>
<td>SLSR30-1950Q8</td>
<td>SLSP30-1950Q8</td>
</tr>
<tr>
<td>2100 mm</td>
<td>8-pin QD</td>
<td>2168 mm</td>
<td>36 ms</td>
<td>140</td>
<td></td>
<td>SLSE30-2100Q8</td>
<td>SLSR30-2100Q8</td>
<td>SLSP30-2100Q8</td>
</tr>
<tr>
<td>2250 mm</td>
<td>8-pin QD</td>
<td>2318 mm</td>
<td>38 ms</td>
<td>150</td>
<td></td>
<td>SLSE30-2250Q8</td>
<td>SLSR30-2250Q8</td>
<td>SLSP30-2250Q8</td>
</tr>
<tr>
<td>2400 mm</td>
<td>8-pin QD</td>
<td>2468 mm</td>
<td>40 ms</td>
<td>160</td>
<td></td>
<td>SLSE30-2400Q8</td>
<td>SLSR30-2400Q8</td>
<td>SLSP30-2400Q8</td>
</tr>
</tbody>
</table>

For an emitter with TEST function, replace Q8 with Q88 on emitter model numbers (example, SLSE30-1050Q88); and Q88 with Q55NT on pair model numbers (example, SLS30-1050Q55NT). For a 300 mm Euro pigtail QD, replace Q with P in model numbers (example, SLS30-1050P88). For a 3-pin 300 mm Euro pigtail QD with No EDN or TEST: replace Q8 with PANT on emitter or receiver (example, SLSE30-1050P88NT) and Q88 with P55NT on pair model numbers (example, SLS30-1050P88NT). For a 4-pin 300 mm M12/Euro pigtail QD with no EDM or TEST functions (GND/PE via mounting), replace Q8 with PANT or Q88 with P55NT (example, SLS30-1050P88NT). ESD-safe models are not available with the pigtail QD option. Additional housing finishes: For a nickel-plated (silver) finish, black endcaps (example, SLSE30-1050QA8); or SO for a safety orange painted finish, black endcaps (example, SLSE30-1050SOG8). For a white painted finish, black endcaps (example, SLSE30-1050WG8) or SO for a safety orange painted finish, black endcaps (example, SLSE30-1050SOG8).

### EZ-SCREEN® Cascade Systems, 14 mm Resolution—0.1 to 6 m Range, 24V dc

<table>
<thead>
<tr>
<th>Defined Area</th>
<th>M12/Euro Connection</th>
<th>Housing Length (L)</th>
<th>Response Time</th>
<th># of Beams</th>
<th>Output</th>
<th>Emitter</th>
<th>Receiver</th>
<th>Pair 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 mm</td>
<td>8-pin QD</td>
<td>372 mm</td>
<td>15 ms</td>
<td>40</td>
<td></td>
<td>SLCE14-300Q8</td>
<td>SLCR14-300Q8</td>
<td>SLCP14-300Q8</td>
</tr>
<tr>
<td>450 mm</td>
<td>8-pin QD</td>
<td>522 mm</td>
<td>19 ms</td>
<td>60</td>
<td></td>
<td>SLCE14-450Q8</td>
<td>SLCR14-450Q8</td>
<td>SLCP14-450Q8</td>
</tr>
<tr>
<td>600 mm</td>
<td>8-pin QD</td>
<td>671 mm</td>
<td>23 ms</td>
<td>80</td>
<td></td>
<td>SLCE14-600Q8</td>
<td>SLCR14-600Q8</td>
<td>SLCP14-600Q8</td>
</tr>
<tr>
<td>750 mm</td>
<td>8-pin QD</td>
<td>821 mm</td>
<td>27 ms</td>
<td>100</td>
<td></td>
<td>SLCE14-750Q8</td>
<td>SLCR14-750Q8</td>
<td>SLCP14-750Q8</td>
</tr>
<tr>
<td>900 mm</td>
<td>8-pin QD</td>
<td>971 mm</td>
<td>32 ms</td>
<td>120</td>
<td></td>
<td>SLCE14-900Q8</td>
<td>SLCR14-900Q8</td>
<td>SLCP14-900Q8</td>
</tr>
<tr>
<td>1050 mm</td>
<td>8-pin QD</td>
<td>1120 mm</td>
<td>36 ms</td>
<td>140</td>
<td></td>
<td>SLCE14-1050Q8</td>
<td>SLCR14-1050Q8</td>
<td>SLCP14-1050Q8</td>
</tr>
<tr>
<td>1200 mm</td>
<td>8-pin QD</td>
<td>1270 mm</td>
<td>40 ms</td>
<td>160</td>
<td></td>
<td>SLCE14-1200Q8</td>
<td>SLCR14-1200Q8</td>
<td>SLCP14-1200Q8</td>
</tr>
<tr>
<td>1350 mm</td>
<td>8-pin QD</td>
<td>1420 mm</td>
<td>43 ms</td>
<td>180</td>
<td></td>
<td>SLCE14-1350Q8</td>
<td>SLCR14-1350Q8</td>
<td>SLCP14-1350Q8</td>
</tr>
</tbody>
</table>

For an emitter with TEST function, replace Q8 with Q88 on emitter model numbers (example, SLCE14-300Q88); and Q88 with Q55NT on pair model numbers (example, SLC30-1050Q55NT). For a 2-pin 300 mm Euro pigtail QD, replace Q with P in model numbers (example, SLC30-1050P88). ESD-safe models are not available with the pigtail QD option. Additional housing finishes: For a nickel-plated (silver) finish, black endcaps (example, SLCE14-300QA8); or SO for a safety orange painted finish, black endcaps (example, SLCE14-300SOG8). For a white painted finish, black endcaps (example, SLCE14-300WG8) or SO for a safety orange painted finish, black endcaps (example, SLCE14-300SOG8).
## EZ-SCREEN® Cascade Systems, 14 mm Resolution—0.1 to 6 m Range, 24V dc (cont’d)

### EZ-SCREEN® Cascade Systems, 30 mm Resolution—0.1 to 18 m Range, 24V dc

<table>
<thead>
<tr>
<th>Defined Area</th>
<th>M12/Euro Connection</th>
<th>Housing Length (L)</th>
<th>Response Time**</th>
<th># of Beams</th>
<th>Output</th>
<th>Models*</th>
<th>Pair†</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500 mm</td>
<td>8-pin Pigtail QD</td>
<td>1569 mm</td>
<td>48 ms</td>
<td>200</td>
<td></td>
<td>SLSC14-1500P8</td>
<td>SLSCR14-1500P8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SLSC14-1500P6</td>
<td>SLSCR14-1500P6</td>
</tr>
<tr>
<td>1650 mm</td>
<td>8-pin Pigtail QD</td>
<td>1719 mm</td>
<td>52 ms</td>
<td>220</td>
<td></td>
<td>SLSC14-1650Q8</td>
<td>SLSCR14-1650Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SLSC14-1650P6</td>
<td>SLSCR14-1650P6</td>
</tr>
<tr>
<td>1800 mm</td>
<td>8-pin Pigtail QD</td>
<td>1869 mm</td>
<td>56 ms</td>
<td>240</td>
<td></td>
<td>SLSC14-1800Q8</td>
<td>SLSCR14-1800Q8</td>
</tr>
<tr>
<td></td>
<td>8-pin Pigtail QD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>SLSC14-1800P8</td>
<td>SLSCR14-1800P8</td>
</tr>
</tbody>
</table>

For a 300 mm Euro pigtail QD, replace Q8 with Q5 on emitter model numbers (example, SLSC14-1500Q8) and Q8 with Q6 on receiver model numbers (example, SLSCP14-1500Q6).

** Defined

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** For an emitter with TEST function, replace Q8 with Q5 on emitter model numbers (example, SLSC14-1500Q5) and Q5 with Q6 on receiver model numbers (example, SLSCP14-1500Q6).

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For a 4-pin 300 mm M12/Euro pigtail QD with no EDM or TEST, replace Q8 with P44NT on emitter or receiver (example, SLSC14-1050P44NT), and Q5 with P55NT on pair model number (example, SLSCP14-1050P55NT). For a 4-pin 300 mm M12/Euro pigtail QD with no EDM or TEST functions (GND/PE via mounting), replace Q8 with P4NT or Q8 with P44NT (example, SLSP14-1050P44NT).

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* ESD-safe models: Add N to the model number, prior to the QD option designation (example, SLSC14-1500QNQ). ESD-safe models are not available with the pigtail QD option.

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Optional housing finishes: Prior to the QD designation in the model number, add A for a clear (brushed) anodized aluminum finish, black endcaps (example, SLSC14-1500QAQ); B for a nickel-plated (silver) finish, black endcaps (example, SLSC14-1500BAQ); C for a black painted finish, black endcaps (example, SLSC14-1500CAQ); D for a white painted finish, black endcaps (example, SLSC14-1500DAQ) or SO for a safety orange painted finish, black endcaps (example, SLSC14-1500SAQ).

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** Connection: Prior to the QD designation in the model number, add P5NT to the model number (example, SLSC14-1500QP5NT). Optional housing finishes: Prior to the QD option designation, add A for a clear (brushed) anodized aluminum finish, black endcaps (example, SLSC14-1500QAQ); B for a nickel-plated (silver) finish, black endcaps (example, SLSC14-1500BAQ); C for a black painted finish, black endcaps (example, SLSC14-1500CAQ); D for a white painted finish, black endcaps (example, SLSC14-1500DAQ) or SO for a safety orange painted finish, black endcaps (example, SLSC14-1500SOQ).

---

** Beams Output: Prior to the QD option designation, add Q5 to the model number (example, SLSC14-1500Q5Q). Optional housing finishes: Prior to the QD option designation, add A for a clear (brushed) anodized aluminum finish, black endcaps (example, SLSC14-1500QAQ); B for a nickel-plated (silver) finish, black endcaps (example, SLSC14-1500BAQ); C for a clear (brushed) anodized aluminum finish, black endcaps (example, SLSC14-1500CAQ); D for a white painted finish, black endcaps (example, SLSC14-1500DAQ) or SO for a safety orange painted finish, black endcaps (example, SLSC14-1500SOQ).

---

** # of Pairs: All models are also available in 8-pin QD (8-pin Pigtail QD) and 16-pin QD (16-pin Pigtail QD) configurations. For a 300 mm Euro pigtail QD, replace Q8 with Q5 on emitter model numbers (example, SLSC14-1500Q5), and Q5 with Q6 on receiver model numbers (example, SLSCP14-1500Q6).

---

** QD models: A model with a QD requires a mating cordset (see page 480).
**EZ-SCREEN® 14 & 30 mm Resolution Kits**

You can purchase a kit that contains an emitter and receiver of equal length and resolution; brackets; and optional interfacing solution and quick-disconnect cordsets. Detailed information about individual kit components is as follows.

- **Emitter and Receivers**
  - Page 474
- **Interfacing Options**
  - Page 501
- **Cordsets**
  - Page 480
- **Brackets**
  - Page 480

### To Order:
1. Choose model, resolution and defined area.
2. Yellow housing is standard. To choose an optional housing, add designation listed below prior to the connection.
3. Choose the connection: Integral M12/Euro-Style QD with or without TEST, or 300 mm M12/Euro-Style pigtail with or without TEST.
4. Choose an optional interfacing solution, such as an IM-T-9A or -11 interfacing model.
5. Choose one cordset for each sensor or two cordsets for a pair.

**M12/Euro QD models** (example, SLSK30-150Q88) require mating M12/Euro QD cordsets, such as:
- QDE cordset with flying leads
- DEE2R double-ended cordset
- CSB series splitter cordset

See [www.bannerengineering.com](http://www.bannerengineering.com) for complete information and a current listing of accessories and options for kitting components.

Call factory with questions regarding accessories: 1-888-373-6767.

**NOTE:** See notes under model number tables. Not all combinations are listed.

Contact Banner Engineering Corp. for additional information and/or verification of valid kit model numbers.

---

**Kit Model Key**

<table>
<thead>
<tr>
<th>Model Style</th>
<th>Kit</th>
<th>Resolution</th>
<th>Defined Area</th>
<th>Finish</th>
<th>Connection</th>
<th>Interfacing Options</th>
<th>QD Cordset Length Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLS = Safety Light Screen</td>
<td>K = Kit</td>
<td>14 = 14 mm</td>
<td>600</td>
<td>Q88</td>
<td>1</td>
<td>R25E25 = 4.5 m (Receiver) &amp; 7.6 m (Emitter)</td>
<td></td>
</tr>
</tbody>
</table>

**Model Style Kit Resolution Defined Area Finish Connection Interfacing Options QD Cordset Length Options**

**QD Cordset Length Examples**

<table>
<thead>
<tr>
<th>Receiver &amp; Emitter QD Options</th>
<th>Q95 = Receiver with integral 8-pin M12/Euro QD Emitter with integral 5-pin M12/Euro QD with Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q88 = Receiver with integral 8-pin M12/Euro QD Emitter with integral 8-pin M12/Euro QD</td>
<td></td>
</tr>
<tr>
<td>P88 = Receiver with 8-pin M12/Euro pigtail QD Emitter with 8-pin M12/Euro pigtail QD</td>
<td></td>
</tr>
<tr>
<td>P55NT = Receiver with 5-pin M12/Euro pigtail QD (No EDM) Emitter with 5-pin M12/Euro pigtail QD (No EDM) (GND/PE via mounting)</td>
<td></td>
</tr>
<tr>
<td>P44NT = Receiver with 4-pin M12/Euro pigtail QD (No EDM) Emitter with 4-pin M12/Euro pigtail QD (No EDM) (GND/PE via mounting)</td>
<td></td>
</tr>
</tbody>
</table>

Interfacing Options

1 = IM-T-9A Interface Module, 1 each (3 NO)
2 = IM-T-11A Interface Module, 1 each (2 NO/1 NC)
3 = 11-BG90-31-D-024 Contactors (10A), each (2 each)
4 = BF1801L-024 Contactors (18A), 2 each
5 = EZAC-R9-QE8 = AC Interface Box (3 NO), 1 each
6 = EZAC-R11-QE8 = AC Interface Box (2 NO/1 NC), 1 each

---

**NOTE:** See notes under model number tables. Not all combinations are listed.

[Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com](http://www.stevenengineering.com)
EZ-SCREEN® 14 & 30 mm Resolution Specifications

Supply Voltage at the Device
24V dc ±15% (use a SELV-rated supply according to EN IEC60950)
(The external voltage supply must be capable of buffering brief mains interruptions of 20 ms, as specified in EN/IEC 60204-1.)

Residual Ripple
± 10% maximum

Supply Current
Emitter: 100 mA max.
Receiver: 275 mA max., exclusive of OSSD1 and OSSD2 loads (up to an additional 0.5A each) and AUX output load (up to 75 mA)

Response Time
9 to 56 milliseconds (see model number tables)

Cascade Safety Stop Interface (CSSI):
40 milliseconds max.

Remote Test Input
(Optional – available only on model SLSE.-..Q5 emitters)
Test Mode is activated either by applying a low signal (less than 3V dc) to emitter TEST #1 terminal for a minimum of 50 milliseconds, or by opening a switch connected between TEST #1 and TEST #2 for a minimum of 50 milliseconds. Beam scanning stops to simulate a blocked condition. A high signal at TEST #1 deactivates Test Mode.

High signal: 10 to 30V dc
Low signal: 0 to 3V dc
Input current: 35 mA inrush, 10 mA max.

Wavelength of Emitter Elements
Infrared LEDs, 950 nm at peak emission

Recovery Time–Blocked to clear
(OSSDs turn ON; varies with total number of sensing beams and whether Sync beam is blocked)

<table>
<thead>
<tr>
<th>Beam 1 (Sync Beam)</th>
<th>All Other Beams</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 mm Models</td>
<td>109 to 800 ms</td>
</tr>
<tr>
<td>30 mm Models</td>
<td>81 to 495 ms</td>
</tr>
</tbody>
</table>

EDM Input
+24V dc signals from external device contacts can be monitored (one-channel, two-channel or no monitoring) via EDM1 and EDM2 terminals in the receiver.

High signal: 10 to 30V dc at 30 mA typical
Low signal: 0 to 3V dc

Reset Input
The Reset input must be high for 0.25 to 2 seconds and then low to reset the receiver.

High signal: 10 to 30V dc at 30 mA typical
Low signal: 0 to 3V dc
Closed switch time: 0.25 to 2 sec

Safety Outputs (OSSDs)
Two redundant solid-state 24V dc, 0.5 A max. sourcing OSSD (Output Signal Switching Device) safety outputs. (Use optional interface modules for ac or larger dc loads.)

On-State voltage: ≥ Vin-1.5V dc
Off-State voltage: 1.2V dc max. (0-1.2V dc)
Max. load capacitance: 1.0 µF
Max. load inductance: 10 H
Leakage current: 0.5 mA maximum
Cable resistance: 10 Ω maximum
OSSD test pulse width: 100 to 300 microseconds
OSSD test pulse period: 10 to 27 milliseconds (varies with number of beams)
Switching current: 0-0.5 A

Auxiliary (Aux.) Output
Switching Capacity
Current-sourcing (PNP) solid-state output, 24V dc at 75mA max that follow the safety outputs (lockout function optional)

Controls and Adjustments
Emitter:
Scan Code selection: 2-position switch (code 1 or 2). Factory default position is code 1.
Receiver:
Scan Code selection: 2-position switch (code 1 or 2). Factory default position is code 1.
Trip/Latch Output selection: Redundant switches. Factory default position is T (Trip).
EDM/MPCE monitor selection: 2-position switch selects between 1- or 2-channel monitoring. Factory default position is 2.
Reduced Resolution (2-beam Floating Blanking): Redundant switches. Factory default is OFF.

Short Circuit Protection
All inputs and outputs are protected from short circuits to +24V dc or dc common.

Electrical Safety Class
(IEC 61140)
III

Operating Range
14 mm models: 0.1 m to 6 m
30 mm models: 0.1 m to 18 m
Range decreases with use of mirrors and/or lens shields:
Lens shields – approximately 10% less range per shield.
Glass-surface mirrors – approximately 8% less range per mirror.
See Accessory section for more information on a specific mirror, page 726.

Ambient Light Immunity
> 10,000 lux at 5° angle of incidence

Strobe Light Immunity
Totally immune to one Federal Signal Corp. “Fireball” model FB2PST strobe

Effective Aperture Angle (EAA)
Meets Type 4 requirements per IEC 61496-2, ± 2.5° @ 3 m

Enclosure
Materials: Extruded aluminum housing with yellow polyester powder (optional black or white or nickel-plated silver finish) and well-sealed, rugged die-cast zinc end caps, acrylic lens cover, copolyester access cover. Endcaps on silver models are also nickel-plated.
Rating: IP65
### EZ-SCREEN® 14 & 30 mm Resolution Specifications  (cont’d)

<table>
<thead>
<tr>
<th>Operating Conditions</th>
<th>Temperature: 0° to +55° C</th>
<th>Relative humidity: 95% (non-condensing)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Status Indicators</strong></td>
<td>Emitter: One Bi-color (Red/Green) Status Indicator – indicates operating mode, Lockout or power OFF condition 7-segment Diagnostic Indicator (1 digit) – indicates proper operation, scan code or error code</td>
<td></td>
</tr>
<tr>
<td>Receiver: Yellow Reset Indicator – indicates whether system is ready for operation or requires a reset Bi-Color (Red/Green) Status Indicator – indicates general system and output status Bi-Color (Red/Green) Zone Status Indicators – indicates condition (clear or blocked beam) of a defined group of beams 7-Segment Diagnostic Indicator (3-digit) – indicates proper operation, scan code or error code, total number of blocked beams</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mounting Hardware</strong></td>
<td>Emitter and receiver each are supplied with a pair of swivel end-mounting brackets. Models longer than 900 mm also include a swivel center-mount bracket. Mounting brackets are 8-gauge cold-rolled steel, black zinc finish.</td>
<td></td>
</tr>
<tr>
<td><strong>Shock and Vibration</strong></td>
<td>EZ-SCREEN components have passed vibration and shock tests according to IEC 61496-1. This includes vibration (10 cycles) of 10-55 Hz at 0.35 mm single amplitude (0.70 mm peak-to-peak) and shock of 10 g for 16 milliseconds (6,000 cycles).</td>
<td></td>
</tr>
<tr>
<td><strong>Design Standards</strong></td>
<td>Designed to comply with Type 4 per IEC 61496; Category 4 PLe per EN ISO 13849-1; SIL 3 per IEC 61508, SIL CL 3 per IEC 62061; Type 4 per UL 61496-1/2</td>
<td></td>
</tr>
<tr>
<td><strong>Certifications</strong></td>
<td>CE, UL LISTED</td>
<td></td>
</tr>
<tr>
<td><strong>Wiring Diagrams</strong></td>
<td>WD001, WD003, WD004, WD005, WD006, WD007, WD013, WD014, WD015, WD016, WD017, WD018, WD019 (pp. 776-786)</td>
<td></td>
</tr>
</tbody>
</table>
**Cordsets**

<table>
<thead>
<tr>
<th>Euro QD</th>
<th>Euro QD–Double-Ended</th>
<th>Euro QD Splitter</th>
</tr>
</thead>
<tbody>
<tr>
<td>See page 690</td>
<td>See page 691</td>
<td>See page 693</td>
</tr>
</tbody>
</table>

**Length** | **8-Pin** | **5-Pin** | **8-Pin** | **5-Pin** | **8-Pin** | **5-Pin** |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4.57 m</td>
<td>QDE-510D</td>
<td>QDE-510D</td>
<td>DEE2R-51D</td>
<td>DEE2R-51D</td>
<td>CSB-M1280M1280</td>
<td>0 m</td>
</tr>
<tr>
<td>7.62 m</td>
<td>QDE-525D</td>
<td>QDE-525D</td>
<td>DEE2R-53D</td>
<td>DEE2R-53D</td>
<td>CSB-M1281M1281</td>
<td>0.30 m</td>
</tr>
<tr>
<td>15.3 m</td>
<td>QDE-550D</td>
<td>QDE-550D</td>
<td>DEE2R-58D</td>
<td>DEE2R-58D</td>
<td>CSB-M1284M1284</td>
<td>2.50 m</td>
</tr>
<tr>
<td>22.9 m</td>
<td>QDE-575D</td>
<td>QDE-575D</td>
<td>DEE2R-515D</td>
<td>DEE2R-515D</td>
<td>CSB-M1285M1285</td>
<td>4.60 m</td>
</tr>
<tr>
<td>30.5 m</td>
<td>QDE-5100D</td>
<td>QDE-5100D</td>
<td>DEE2R-525D</td>
<td>DEE2R-525D</td>
<td>CSB-M1282M1282</td>
<td>7.60 m</td>
</tr>
</tbody>
</table>

* For connection to safety BUS gateway/hone a “smart” self-monitored safety module, safety controller or safety PLC see page 691.

**Brackets**

<table>
<thead>
<tr>
<th>Length</th>
<th>14 &amp; 30 mm</th>
<th>14 &amp; 30 mm Cascade</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>pg. 629</td>
<td>pg. 629</td>
</tr>
<tr>
<td></td>
<td>EZA-MBK-12*</td>
<td>EZA-MBK-11*</td>
</tr>
<tr>
<td></td>
<td>pg. 629</td>
<td>EZA-MBK-20</td>
</tr>
<tr>
<td></td>
<td>pg. 629</td>
<td>EZA-MBK-21</td>
</tr>
</tbody>
</table>

* Standard brackets included with emitter/receiver.

**Replacement Parts**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZA-ADE-1</td>
<td>Copolyester access cover with label for 14 or 30 mm resolution emitters</td>
</tr>
<tr>
<td>EZA-ADE-2</td>
<td>Copolyester access cover with inverted label for 14 or 30 mm resolution emitters</td>
</tr>
<tr>
<td>EZA-ADR-1</td>
<td>Copolyester access cover with label for 14 or 30 mm resolution receiver</td>
</tr>
<tr>
<td>EZA-ADR-2</td>
<td>Copolyester access cover with inverted label for 14 or 30 mm resolution receiver</td>
</tr>
<tr>
<td>EZA-MBK-12</td>
<td>Center bracket kit (includes 1 bracket and hardware to mount to MSA Series stands) for 14 or 30 mm resolution EZ-SCREEN</td>
</tr>
<tr>
<td>EZA-MBK-11</td>
<td>Standard bracket kit with hardware (includes 2 end brackets and hardware to mount to MSA Series stands) for 14 or 30 mm resolution EZ-SCREEN</td>
</tr>
<tr>
<td>EZA-TP-1</td>
<td>Access cover security plate (includes 2 screws, wrench) for 14 or 30 mm resolution EZ-SCREEN</td>
</tr>
<tr>
<td>EZA-RR-1</td>
<td>External normally open reset switch with 8-pin/M12 Euro-style QD</td>
</tr>
<tr>
<td>MGA-K-1</td>
<td>Replacement key for switch MGA-KS0-1</td>
</tr>
<tr>
<td>MGA-KS0-1</td>
<td>Panel-mount keyed normally open reset switch</td>
</tr>
<tr>
<td>SMA-MBK-1</td>
<td>SSM Series Mirror Bracket Kit</td>
</tr>
<tr>
<td>STP-13</td>
<td>14 mm test piece (14 mm resolution systems)</td>
</tr>
<tr>
<td>STP-14</td>
<td>30 mm test piece (14 mm resolution systems with 2-beam Reduced Resolution and for 30 mm resolution systems)</td>
</tr>
<tr>
<td>STP-15</td>
<td>60 mm test piece (30 mm resolution systems with 2-beam Reduced Resolution)</td>
</tr>
</tbody>
</table>

Note: See Installation manual p/n 112852 for complete list of replacement parts and accessories.
### EZ-SCREEN® System (Type 4)

#### Emitter 8-Pin Euro-Style (Standard Emitter)

![Diagram of Emitter 8-Pin Euro-Style](image)

*NOTE: Pins 2, 3, 4, 5, and 8 are not connected, or are paralleled to same color wire from the 8-pin receiver cable.

#### Models
- EZ-SCREEN 14 & 30 mm models with 8-pin M12/Euro QD
- EZ-SCREEN Grid & Point models with 8-pin M12/Euro QD

### Emitter 5-Pin Euro-Style (Emitter with Test)

![Diagram of Emitter 5-Pin Euro-Style](image)

*NOTE: Pins 2, 3, 4, and 5 either are not connected (n.c), or are paralleled to same color wire from the 8-pin receiver cable.

#### Models
- EZ-SCREEN 14 & 30 mm models with 5-pin M12/Euro QD
- EZ-SCREEN Grid & Point models with 5-pin M12/Euro QD

### EZ-SCREEN® LP System (Type 4)

#### Emitter 8-Pin Euro-Style (Reset Hookup)

![Diagram of Emitter 8-Pin Euro-Style (Reset)](image)

*NOTE: Pins 2, 3, 4, and 5 either are not connected (n.c), or are paralleled to same color wire from the 8-pin receiver cable.

#### Models
- EZ-SCREEN LP 14 & 25 mm models with 8-pin M12/Euro QD

#### Emitter 8-Pin Euro-Style (Test Hookup)

![Diagram of Emitter 8-Pin Euro-Style (Test)](image)

*NOTE: Pins 2, 3, 4, and 5 either are not connected (n.c), or are paralleled to same color wire from the 8-pin receiver cable.

#### Models
- EZ-SCREEN LP 14 & 25 mm models with 8-pin M12/Euro QD

---

1. See Euro-style connectors on page 682 for female mating cordset.
WD003

EZ-SCREEN® System (Type 4)
Receiver with 2 Solid-State OSSDs, 2 FSDs and 2-Channel EDM

8-pin male Euro-style†

Bn (Pin #1) +24V dc

Gn/Ye (#7) Ground

Bu (#6) 0V dc

Bk (#5) OSSD1

Wh (#4) OSSD2

Vi (#8) Reset*

Or (#3) EDM1

Or/Bk (#2) EDM2

Single-Channel Safety Stop Circuit

Dual-Channel Safety Stop Circuit

NOTE: Do not exceed OSSD maximum load capacitance specification.

† See Euro-style connectors on page 682 for female mating cordset.

* Trip (auto reset) not connected.

WD004

EZ-SCREEN® System (Type 4)
Receiver with 2 Solid-State OSSDs and 2-Channel EDM of SC22-3

8-pin male Euro-style†

Bn (Pin #1) +24V dc

Gn/Ye (#7) Ground

Bu (#6) 0V dc

Bk (#5) OSSD1

Wh (#4) OSSD2

Vi (#8) Reset*

Or (#3) EDM1

Or/Bk (#2) EDM2

SC22-3 Safety Controller

A1 A1 A2 A2

S1 S2 S3

NOTE: EZ-SCREEN receiver DIP switches are configured for “Trip” (T) output and 2-channel EDM (E2). If the Auxiliary output is to be used, configure the EZ-SCREEN receiver for 1-channel EDM (E1) and connect pin #3 (Or) to +24V dc.

† See Euro-style connectors on page 682 for female mating cordset.

* Trip (auto reset) not connected.

Wiring diagrams are for information only. See appropriate manuals for all specific warnings, cautions and information for use.
**WD005**

**EZ-SCREEN® System (Type 4)**

**1-Channel EDM of IM-T-9A Interface Module**

Models

- EZ-SCREEN 14 & 30 mm models with 8-pin M12/Euro QD
- EZ-SCREEN LP 14 & 25 mm models with 8-pin M12/Euro QD
- EZ-SCREEN Grid & Point models with 8-pin M12/Euro QD

**IM-T-9A Terminal Locations**

```
13  S1  S2  Y1
23  33  Y2
Y3  S3  S4
Y4  14  24  34
```

* Arc Suppressors. See manual for specific warnings.
** Trip (auto reset) not connected.
† See Euro-style connectors on page 685 for female mating cordset.

![Wiring diagram for 1-Channel EDM of IM-T-9A Interface Module](image)

**WD006**

**EZ-SCREEN® System (Type 4)**

**2-Channel EDM of IM-T-9A Interface Module**

Models

- EZ-SCREEN 14 & 30 mm models with 8-pin M12/Euro QD
- EZ-SCREEN LP 14 & 25 mm models with 8-pin M12/Euro QD
- EZ-SCREEN Grid & Point models with 8-pin M12/Euro QD

**IM-T-9A Terminal Locations**

```
13  23  33
14  24  34
```

* Arc Suppressors. See manual for specific warnings.
** Trip (auto reset) not connected.
† See Euro-style connectors on page 685 for female mating cordset.

![Wiring diagram for 2-Channel EDM of IM-T-9A Interface Module](image)
**EZ-SCREEN® System (Type 4)**

**Hookup of E-Stop Button to the last Receiver in a Cascade**

22 awg

![Diagram of EZ-SCREEN 14 & 30 mm model shown]

**EZ-SCREEN 14 & 30 mm Models**

<table>
<thead>
<tr>
<th>RDLP6G-4..D Cordset Pinout*</th>
<th>Combination DELPEF-8..D/QDE2R4-8..D Cordset Pinout**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brown—Ch 1a</td>
<td>Pin #1 – Brown (Ch 1a)</td>
</tr>
<tr>
<td>White—Ch 2a</td>
<td>Pin #2 – n.c.</td>
</tr>
<tr>
<td>Blue—Ch 2b</td>
<td>Pin #3 – n.c.</td>
</tr>
<tr>
<td>Black—Ch 1b</td>
<td>Pin #4 – Black (Ch 1b)</td>
</tr>
</tbody>
</table>

* Other cordset options may also be used, see above for more information.

**NOTE:** Pins 2, 3, 4, 5 and 8 are not connected, or are paralleled to same color wire from the receiver cable.

* See Euro-style connectors on page 685 for female mating cordset.

---

**EZ-SCREEN® System (Type 2)**

**Emitter**

8-pin male Euro-style†

See Euro-style connectors on page 685 for female mating cordset.
EZ-SCREEN® System (Type 2)

Receiver with 2 Solid-State OSSDs, 2 FSDs and Power Monitoring

**Models**

- EZ-SCREEN Type 2 30 mm models

**IM-T-9A Terminal Locations**

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Single-Channel Safety Stop Circuit</td>
</tr>
<tr>
<td>23</td>
<td>Dual-Channel Safety Stop Circuit</td>
</tr>
<tr>
<td>33</td>
<td>MPCE Monitoring</td>
</tr>
<tr>
<td>43</td>
<td>Machine Control</td>
</tr>
</tbody>
</table>

**NOTE:** Pins 2 and 3 are not connected, or are paralleled to same color wire from the emitter cable and properly terminated.

† See Euro-style connectors on page 685 for female mating cordset.

NOTE: Do not exceed OSSD maximum load capacitance specification.

---

WD010

**EZ-SCREEN® System (Type 2)**

Power Monitoring of IM-T-9A Interface Module

**Models**

- EZ-SCREEN Type 2 30 mm models

**IM-T-9A Terminal Locations**

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Single-Channel Safety Stop Circuit</td>
</tr>
<tr>
<td>23</td>
<td>Dual-Channel Safety Stop Circuit</td>
</tr>
<tr>
<td>33</td>
<td>MPCE Monitoring</td>
</tr>
<tr>
<td>43</td>
<td>Machine Control</td>
</tr>
</tbody>
</table>

**NOTE:** Pins 2 and 3 are not connected, or are paralleled to same color wire from the emitter cable and properly terminated.

† See Euro-style connectors on page 685 for female mating cordset.

† See Euro-style connectors on page 685 for female mating cordset.
**WD011**

**EZ-SCREEN® System (Type 4)**

**Emitter**

- **EZ-SCREEN® Grid & Point with terminal chamber hookup**
  (Models with M12/Euro QD, see WD001)

**Receive with 2 Solid-State OSSDs, 2 FSDs and 2-Channel EDM**

- **Wiring Diagrams**
- **Glossary**
- **International Reps**

NOTE: Do not exceed OSSD maximum load capacitance specification.

**WD012**

**EZ-SCREEN® System (Type 4)**

**Emitter**

- **EZ-SCREEN® Grid & Point with terminal chamber hookup**
  (Models with M12/Euro QD, see WD001)

**Receive with 2 Solid-State OSSDs, 2 FSDs and 2-Channel EDM**

- **Wiring Diagrams**
- **Glossary**
- **International Reps**

NOTE: Do not exceed OSSD maximum load capacitance specification.
**Models**

- EZAC-R9-QE8

**Connections (Hand Wired)**

- 1/2 NPT threads for outputs
- 1/2 NPT threads for AC inputs
- 8-pin female Euro-style QD to emitter/receiver

---

**EZAC-R9-QE8**

- **2-ch. 1-ch. EDM**
- **Monitoring Contacts**
  - (Line) P5
  - (Neutral) P5
  - (Gnd) P5
- **2-Channel EDM Hookup**
  - Monitoring Contacts
- **1-Channel EDM Hookup**
  - Monitoring Contacts
- **No EDM**

---

* Arc Suppressors. See manual for specific warnings.

---

Wiring diagrams are for information only. See appropriate manuals for all specific warnings, cautions and information for use.

More on next page
**Models**

- **EZAC-R11-QE8**

**Connections (Hand Wired)**

- 1/2 NPT threads for outputs
- 1/2 NPT threads for AC inputs
- 8-pin female Euro-style QD to emitter/receiver

* Arc Suppressors. See manual for specific warnings.
**Reference**

**WD015**

**EZ-SCREEN® System (Type 4)**

**EZAC-R15A-QE8-QS83-Mini-Style QD with 1 NO, 1 SPDT and 1-Channel EDM**

![Diagram of EZAC-R15A-QE8-QS83](image)

**Models**

- ELAC-R15A-QE8-QS83

**Connections (8-Pin Mini)**

- 3-pin male Mini-style for AC inputs
- 8-pin female Euro-style QD to emitter/receiver

![Diagram of Wiring Connections](image)

---

**WD016**

**EZ-SCREEN® AC Interface Box**

**EZAC-R8N-QE8-QS53 – Mini-Style QD with 1 NO, 1 NC and Power Monitoring**

![Diagram of EZAC-R8N-QE8-QS53](image)

**Models**

- EZAC-R8N-QE8-QS53

**Connections (5-Pin Mini)**

- 3-pin male Mini-style for AC inputs
- 5-pin female Euro-style QD to emitter/receiver

![Diagram of Wiring Connections](image)

---

† Arc Suppressors. See manual for specific warnings.
**EZ-SCREEN® AC Interface Box**

**EZAC-R10N-QE8-QS53** – Mini-Style QD with 2 NO and Power Monitoring

![Diagram of EZAC-R10N-QE8-QS53](image)

**Models**
- EZAC-R10N-QE8-QS53

**Connections (5-Pin Mini)**
- 5-pin male – Mini-style for outputs
- 5-pin female – Euro-style QD to emitter/receiver

---

**Models**
- EZAC-E-QE8
- EZAC-E-QE5

**Connections**
- 5-Pin Euro
- 8-Pin Euro

---

- Wiring diagrams are for information only. See appropriate manuals for all specific warnings, cautions and information for use.

---

*Arc Suppressors. See manual for specific warnings.*
**EZ-SCREEN® AC Interface Box**

### EZAC-E-QE8-QS3 – Mini-Style QD Emitter

<table>
<thead>
<tr>
<th>Pin</th>
<th>Color</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Brown</td>
<td>L</td>
</tr>
<tr>
<td>2</td>
<td>Blue</td>
<td>N</td>
</tr>
<tr>
<td>3</td>
<td>Green/Yellow</td>
<td>N</td>
</tr>
</tbody>
</table>

- (Line) L
- (Neutral) N
- (Gnd) Gnd

- 90-210V ac

**EZAC-E-QE5-QS5 – Mini-Style QD Emitter with Test**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Color</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Brown</td>
<td>L</td>
</tr>
<tr>
<td>2</td>
<td>Blue</td>
<td>N</td>
</tr>
<tr>
<td>3</td>
<td>Green/Yellow</td>
<td>N</td>
</tr>
</tbody>
</table>

- (Line) L
- (Neutral) N
- (Gnd) Gnd

- 90-230V ac

**Test #1**

- TEST

**Test #2**

- TEST

### Wiring Diagrams

- 3-Pin Mini-Style Power Connector
- 5-Pin Mini-Style Output Connector

**Models**

- EZAC-E-QE8-QS3
- EZAC-E-QE5-QS5

**Connections**

- (3-Pin Mini)
- (5-Pin Mini)

---

**AG4 Laser Scanner**

### AG4 to FSD1 & FSD2

**Models**

- AG4

**Connections**

- +24V dc
- 0V dc

**FSDs** must be monitored for proper operation. 1-channel EDM can only be used when the scanner is configured for manual reset. See manual for more information.

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**More information online at bannerengineering.com**