**Wiring**

### NPN OUTPUT

![NPN Wiring Diagram](image)

### PNP OUTPUT

![PNP Wiring Diagram](image)

**Dimensions**

![Dimensions Diagram](image)

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**Specifications**

<table>
<thead>
<tr>
<th>E3X-□</th>
<th>NPN</th>
<th>A11/A16</th>
<th>A21</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNP</td>
<td>A41/A66</td>
<td>A51</td>
<td></td>
</tr>
<tr>
<td>Supply voltage</td>
<td>10~30VDC</td>
<td>10~30VDC</td>
<td></td>
</tr>
<tr>
<td>Ripple (max)</td>
<td>≤10%</td>
<td>≤10%</td>
<td></td>
</tr>
<tr>
<td>Current consumption</td>
<td>≤35mA</td>
<td>≤35mA</td>
<td></td>
</tr>
<tr>
<td>Control output (max)</td>
<td>30VDC 100mA</td>
<td>30VDC 100mA</td>
<td></td>
</tr>
<tr>
<td>Self-diagnostic output</td>
<td>≤30VDC 50mA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timer Function</td>
<td>OFF delay</td>
<td>10ms~100ms</td>
<td></td>
</tr>
<tr>
<td>Response time</td>
<td>ON ≤200 μs</td>
<td>≤200 μs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OFF ≤200 μs</td>
<td>≤200 μs</td>
<td></td>
</tr>
<tr>
<td>External check input</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-25~+55°C</td>
<td>-25~+55°C</td>
<td></td>
</tr>
<tr>
<td>Operating humidity</td>
<td>35~85%RH</td>
<td>35~85%RH</td>
<td></td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP66 (A14/A16, E3035629, IP55)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Safety Note**

- Meaning of warning symbol: This symbol indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- Warning symbol:
  - Do not connect sensor to AC power supply.
  - Do not apply voltages to terminals.

**Precautions for Safe Use**

Be sure to follow the safety precautions below for added safety:
1. Do not use the sensor under the environment with explosive or ignition gas.
2. Do not disassemble, repair or tamper with the product.
3. Power supply must be within the range of the device.
4. Do not use the sensor over the rated values.

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**Suitability for Use**

The products contained in the sheet are not safety rated. They are not designed or rated for ensuring safety of persons and should not be used as a safety component on protective systems for such purposes. Please refer to separate OMRON safety products.

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of the products in the customer's application or use of the product.

Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used. Know and observe all prohibitions of use applicable to this product.

When using the products, ensure that no serious risks to life or property exist. Ensure that the system or application can be stopped to address the hazard and that the OMRON product(s) properly inhibit and/or limit the risk of the application and/or the equipment or system.

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