**Optical anti-collision device FUA-3**

**Application:**
Mainly in case of two or more cranes (hoists) working on the same track:
- to avoid collision between cranes (hoists),
- to prevent exceeding the allowable loads of structural elements: crane beams, columns, caused by the presence of two or more cranes on a single span.

**Attention:**
- individual elements of the anti-collision device have the ability to adjust its position,
- stands should be mounted on the crane construction equidistant from the track,
- adjustment of photo sensors sensitivity should be carried out basis on dynamic test of crane (hoist) drives.

**Construction:**
Optical anti-collision device includes:
- 2 photo sensors,
- 2 mirrors
- 2 sets of stands for photo sensors and mirrors mounting and adjustment.

**Stand's material:** galvanized steel

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Type</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>7100.03</td>
<td>FUA-3</td>
<td>6.45</td>
</tr>
</tbody>
</table>

**Wiring diagram**

**Photo sensor data:**

<table>
<thead>
<tr>
<th>Producer Type</th>
<th>Supply voltage</th>
<th>Relay's contact electrical data</th>
<th>Sensitivity</th>
<th>Internal protection level</th>
<th>Working temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>TELEMECANIQUE XUX1ARCNT16</td>
<td>U = 24-240V</td>
<td>U_n= 250V AC I_n=3A</td>
<td>up to 18 m</td>
<td>IP 67</td>
<td>-25°C to +55°C</td>
</tr>
</tbody>
</table>

**Diagram of the anti-collision device**

Maximum distance ≤ 18 m
Crane equipments

Optical anti – collision device FUA-4

**Application:**
Mainly in case of two or more cranes (hoists) working on the same track:
- to avoid collision between cranes (hoists),
- to prevent exceeding the allowable loads of structural elements: crane beams, columns, caused by the presence of two or more cranes on a single span.

**Attention:**
- individual elements of the anti-collision device have the ability to adjust it's position,
- stands should be mounted on the crane construction equidistant from the track,
- adjustment of photo sensors sensitivity should be carried out basis on dynamic test of crane (hoist) drives.

**Construction:**
Optical anti – collision device includes:
- 2 photo sensors,
- 2 mirrors
- 2 sets of stands for photo sensors and mirrors mounting and adjustment.

**Stand's material:** galvanized steel

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Type</th>
<th>Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>7100.04</td>
<td>FUA-4</td>
<td>6.44</td>
</tr>
</tbody>
</table>

**Wiring diagram**

**Photo sensor data:**

<table>
<thead>
<tr>
<th>Producer Type</th>
<th>Supply voltage</th>
<th>Relay's contact electrical data</th>
<th>Sensitivity</th>
<th>Internal protection level</th>
<th>Working temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>SICK WL34-R230</td>
<td>U = 24 ... 240 V AC</td>
<td>U_N = 250V AC I_N = 4A</td>
<td>do 18 m</td>
<td>IP 67</td>
<td>-40°C do +60°C</td>
</tr>
</tbody>
</table>

**Diagram of the anti-collision device**

Maximum distance ≤ 18 m