General purpose

Spark luminaire, equipped with LED light source, is supposed to indicate emergency escape routes and emergency exits with suitable pictograms. Spark can be adopted in public facilities or in workplaces and it is compatible with all emergency lighting systems offered by Hybryd.

Additional information about emergency lighting luminaires - p. 24

Technical data

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>LIGHT SOURCE</th>
<th>LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>230VAC/50Hz</td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td>&lt;4W</td>
<td></td>
</tr>
<tr>
<td>Protection class</td>
<td>I</td>
<td></td>
</tr>
<tr>
<td>Radio noise</td>
<td>Level N</td>
<td></td>
</tr>
<tr>
<td>Protection degree</td>
<td>IP 40</td>
<td></td>
</tr>
<tr>
<td>Light source</td>
<td>White LED</td>
<td></td>
</tr>
<tr>
<td>Accumulator type</td>
<td>Ni-MH HT</td>
<td></td>
</tr>
<tr>
<td>Recharging time</td>
<td>24h</td>
<td></td>
</tr>
<tr>
<td>Emergency work time</td>
<td>3h</td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>+10°C ÷ +40°C</td>
<td></td>
</tr>
</tbody>
</table>

Connector

| 4 x 0,5 ÷ 2,5 mm² (maintained) | 3 x 0,5 ÷ 2,5 mm² (non-maintained) | 4 x 0,5 ÷ 1,5 mm² (main. W1) | 3 x 0,5 ÷ 1,5 mm² (non-main. W1) |

Available versions

Check final pages of this catalogue.

Mounting types

Check 3rd page of the catalogue cover.

Dimensions

SPARK - one-sided

SPARK D - one-sided, big

SPARK DW - two-sided with raising

SPARK D DW - two-sided with raising, big
### Emergency lighting luminaires - versions for ordering

**CRYSTAL**

<table>
<thead>
<tr>
<th>Luminaire</th>
<th>Execution</th>
<th>T&lt;sub&gt;aw&lt;/sub&gt; [h]</th>
<th>Work mode</th>
<th>Mounting</th>
<th>Casing colour (RAL code)</th>
<th>Pictogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRYSTAL</td>
<td>ST</td>
<td>1</td>
<td>C</td>
<td>C5</td>
<td>9003</td>
<td>P01</td>
</tr>
<tr>
<td></td>
<td>AT</td>
<td>2</td>
<td>J</td>
<td>C6</td>
<td>9005&lt;sup&gt;∗&lt;/sup&gt;</td>
<td>...</td>
</tr>
<tr>
<td></td>
<td>CT</td>
<td>3</td>
<td></td>
<td>C7</td>
<td>9006&lt;sup&gt;∗&lt;/sup&gt;</td>
<td>P29</td>
</tr>
<tr>
<td></td>
<td>CB</td>
<td></td>
<td></td>
<td>W3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CB-MA</td>
<td></td>
<td></td>
<td>W4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example of creating a name:** CRYSTAL CT 2C C5 9003 P05

**ALU**

<table>
<thead>
<tr>
<th>Luminaire</th>
<th>Execution</th>
<th>Work mode</th>
<th>Light source</th>
<th>Mounting</th>
<th>Casing colour (RAL code)</th>
<th>Pictogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRYSTAL</td>
<td>ST</td>
<td>C</td>
<td>LED</td>
<td>C5</td>
<td>9003</td>
<td>P01</td>
</tr>
<tr>
<td></td>
<td>AT</td>
<td>J</td>
<td></td>
<td>C6</td>
<td>9005&lt;sup&gt;∗&lt;/sup&gt;</td>
<td>...</td>
</tr>
<tr>
<td></td>
<td>CT</td>
<td></td>
<td></td>
<td>C7</td>
<td>9006&lt;sup&gt;∗&lt;/sup&gt;</td>
<td>P29</td>
</tr>
<tr>
<td></td>
<td>CB</td>
<td></td>
<td></td>
<td>W3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CB-MA</td>
<td></td>
<td></td>
<td>W4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example of creating a name:** CRYSTAL AT C LED W3 9003 P09

**SPARK**

<table>
<thead>
<tr>
<th>Luminaire</th>
<th>Execution</th>
<th>Work mode</th>
<th>Light source</th>
<th>Mounting</th>
<th>Casing colour (RAL code)</th>
<th>Pictogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRYSTAL</td>
<td>ST</td>
<td>C</td>
<td>LED</td>
<td>C5</td>
<td>9003</td>
<td>P01</td>
</tr>
<tr>
<td></td>
<td>AT</td>
<td>J</td>
<td></td>
<td>C6</td>
<td>9005&lt;sup&gt;∗&lt;/sup&gt;</td>
<td>...</td>
</tr>
<tr>
<td></td>
<td>CT</td>
<td></td>
<td></td>
<td>C7</td>
<td>9006&lt;sup&gt;∗&lt;/sup&gt;</td>
<td>P29</td>
</tr>
<tr>
<td></td>
<td>CB</td>
<td></td>
<td></td>
<td>W3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CB-MA</td>
<td></td>
<td></td>
<td>W4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Example of creating a name:** CRYSTAL CT 2C C5 9003 P05

**Legend - p. 63**

1) Mounting type W1 only for one-sided ALU luminaire.

1) Mounting type W1 only for one-sided SPARK luminaire.
### Emergency lighting luminaires - versions for ordering

<table>
<thead>
<tr>
<th>Luminaire</th>
<th>Type of housing</th>
<th>Execution</th>
<th>Power [W]</th>
<th>$T_{em}$ [h]</th>
<th>Work mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>SFERA</td>
<td>N</td>
<td>ST</td>
<td>1x18W</td>
<td>2</td>
<td>J</td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>AT</td>
<td>2x18W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CT</td>
<td></td>
<td>1x26W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CB</td>
<td></td>
<td>2x26W</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example of creating a name: SFERA N CT 2x18W 2J

<table>
<thead>
<tr>
<th>Luminaire</th>
<th>Type of housing</th>
<th>Execution</th>
<th>Power [W]</th>
<th>$T_{em}$ [h]</th>
<th>Work mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQUARE</td>
<td>N</td>
<td>ST</td>
<td>4x14W</td>
<td>2</td>
<td>J</td>
</tr>
<tr>
<td></td>
<td>P</td>
<td>AT</td>
<td>4x18W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CT</td>
<td></td>
<td>2x36W</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Example of creating a name: SQUARE P AT 4x18W 2J

### Legend:

- **Photometric body type**: see individual product data sheets.
- **Luminaire size**: 
  - Empty field – small
  - D – large.
- **Luminaire type or lamp cover**: 
  - N – surface mount
  - P – recessed
  - DW – luminaire two-sided or lamp cover two-sided.
- **Execution**: 
  - ST – standard
  - AT – autotest
  - CT – centraltest
  - TS – testsystem
  - CB – central battery,
  - CB-MA – central battery plus changeover module,
  - CB-MP – central battery plus addressing module,
  - CB-MAP – central battery plus changeover + addressing module.
- $T_{em}$ [h] - emergency work time: CB is not defined.
- **Work mode**: 
  - C – non-maintained
  - J – maintained
  - N – night (only for CT).
  - Defined for ST, AT, CT, TS, CB-MA (luminaires LED) i CB-MAP (luminaires fluorescent).
- **Temperature range**: 
  - Empty field - standard temperature range
  - $T$ – extended temperature range (see technical data) with thermostat H-323.
- **Casing colour**: fields with “**” available - extended delivery time.
Mounting kit C101
Mounting kit designed to hang down luminaires PRYMAT, PRIMOS and HERKULES-P.

ATTENTION!
Strings or chains should be ordered separately.

Mounting kit C105
Mounting kit designed for mounting luminaires PRIMOS, PRYMAT and HERKULES-P in suspended ceilings.

Mounting kit W121
Wall mounting kit designed for luminaires PRIMOS, PRYMAT and HERKULES-P. It allows mounting luminaire on the wall perpendicularly to it and for folding luminaire from the level 15, 30, 45, 60, 75 or 90 °. Using a mounting W121 luminaire is directed to the shorter side of wall.

Mounting kit W122
Wall mounting kit designed for luminaires PRIMOS, PRYMAT and HERKULES-P. It allows mounting luminaire on the wall perpendicularly to it and for folding luminaire from the level 15, 30, 45, 60, 75 °. Using a mounting W121 luminaire is directed to the longer side of wall.

Mounting kit W131
Mounting kit designed for surface mounting of KWADRA luminaire on the wall in the way that the light is directed to the floor. It is recommended to use luminaire with SIDE type photometric body with mounting kit W131.

Reinforcement for soft ceilings
Addition designed for recessed execution of KWADRA luminaire. It allows mounting of luminaire in soft ceilings eg. in fiberglass ceilings.

Strings, chains
Steel strings, galvanized chains DIN 5685-A – designed for mounting pendant luminaires.

Chains available in dimension DIN 5685-A 1,5x12.
Versions - testing, monitoring

ST = Standard - emergency work test executed by turning off power supply

AT = Autotest - automatic and periodic test execution:
   TEST A - lamp efficiency test, monthly;
   TEST B - emergency work time measurement, annually;

CT = Centraltest - communication with the central unit or PC, full addressing of the luminaires, luminaires visualisation, system status reporting, many testing options, manual testing;

TS = Test System - communication with H-101TS central unit,
   many testing options, manual testing with the use of H-101TS central unit

CB = Central Battery - 220V DC power supply from central battery, built-in LED 220VDC ballast and LED module;

BU = Buffer Supply - luminaire adapted for 12-24V DC buffer feeders, built-in LED 12-24V DC ballast and LED module.

Functions

1. Automatic power supply switch: basic work/emergency work. (only ST, AT, CT and TS).
2. Luminaire and accumulator state indication (only ST, AT, CT and TS).
3. Supervision of 230V power supply voltage and accumulator condition (only ST, AT, CT and TS).
4. Deep accumulator discharge protection (only ST, AT, CT and TS).
5. Automatic test execution (only AT, CT and TS).
6. Light source work supervision.

Indication

The luminaire condition is indicated by LED. There is no LED indication during emergency mode:

Green - accumulator condition (only ST, AT, CT, TS)
Red - luminaire condition (only AT, CT, TS).

More details described in product manuals.

Lighting versions

Maintained (M) - basic lighting provided all the time (uses 230V); in case of power supply failure switches automatically into emergency mode (accumulator).

Non-maintained (NM) - standby mode as a standard (no lighting); in case of power supply failure switches automatically into emergency mode (accumulator).
### Mounting types

<table>
<thead>
<tr>
<th>PROFIL</th>
<th>C12</th>
<th>C13*</th>
<th>C14*</th>
<th>C15</th>
<th>C16(^1)</th>
<th>C17(^1)</th>
<th>C18(^2)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>W7</td>
<td>W8</td>
<td>W9</td>
<td>W10</td>
<td>W11</td>
<td>W12</td>
<td></td>
</tr>
<tr>
<td></td>
<td>C25</td>
<td>C26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CRYSTAL</th>
<th>C5</th>
<th>C6</th>
<th>C7*</th>
<th>W3</th>
<th>W4</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ALU</th>
<th>C1*</th>
<th>C2</th>
<th>W1</th>
<th>W2</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>SPARK</th>
<th>C25</th>
<th>C30</th>
<th>W1</th>
<th>W16</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>PROFILIGHT</th>
<th>C5</th>
<th>C24</th>
<th>C25</th>
<th>C26</th>
<th>C32</th>
<th>W4</th>
<th>W17</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>H-207 TELESTO</th>
<th>H-207 SUPERNOVA</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>KWADRA ORBIT LED</th>
<th>OWA LED</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>KWADRA N</th>
<th>KWADRA P</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>ACCESSORIES</th>
<th>(ordered separately)</th>
</tr>
</thead>
</table>

* Strings or chains available on request.
\(^1\) Requires access to ceiling void.
\(^2\) Only for ST, CB.