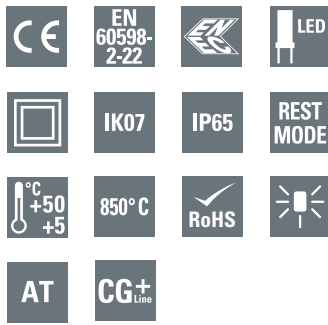


# Beam lights

## BeamTech Small PSU, 1 Light Head



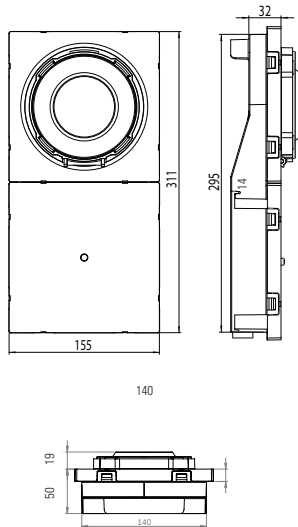
### Features & Benefits

- High flux luminaire with configuration of one directional LED lamp head
- Variants of 250lm, 500lm, each light head can reach up to 500 lumens maximum
- Installation up to 20m (25m) with optimum spacing of 16.6m (20.8m) for 1lux (0.5lux) illumination
- E-focus programming. Narrow and Wide light distribution, programmed by the user
- One product applicable for Escape Route or Open area illumination
- User / installer to define light distribution to fit the application
- Suitable for use in large open areas (supermarkets, warehouses, cinemas, theatres, factories, shopping malls, industrial units, stadiums etc.)
- New modern and flexible / modular design, wall or ceiling mounted or recessed (via accessory)
- Mains & communication cabling option from all housing sides (back & side entry)
- Locking mechanism of light head preventing accidental change of light head configuration
- With automatic test for reduced inspection effort
- For autonomous installation or connection to the CGLine+ monitoring system
- Simple fault analysis and status display via bi-color LED
- Blocking function prevents unintended discharge during idle operating times (only with CGLine+ WEB-Controller)

BeamTech Small PSU, 1 Light Head



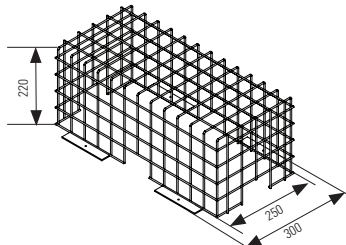
Dimensions in mm



Recessed base



Protection grid



|                                 |                                                                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Luminous flux                   | 250lm, 500lm                                                                                                                                            |
| Operation                       | Non-Maintained                                                                                                                                          |
| Autonomy                        | 1, 2 or 3 hours                                                                                                                                         |
| Testing system                  | test button, test by Telecommand                                                                                                                        |
| Degree of protection            | IP65 & IK07                                                                                                                                             |
| Connection terminals            | up to 1,5 mm <sup>2</sup> screwless pushwire & multicore,<br>In & Out mains terminals (L, N, E)<br>CGLine+ bus through-wiring up to 1,5 mm <sup>2</sup> |
| Rated voltage                   | 220-240Vac, 50/60Hz                                                                                                                                     |
| Housing material                | Polycarbonate (850 °C glow wire resistant)                                                                                                              |
| Housing color                   | RAL9003                                                                                                                                                 |
| Insulation class                | Class II                                                                                                                                                |
| Permissible ambient temperature | +5°C to +40°C (NiCd) / +5°C to +50°C (LiFePo)                                                                                                           |
| Light source                    | 12 LEDs Wide / 12 LEDs Narrow (4W max)                                                                                                                  |

### Ordering details

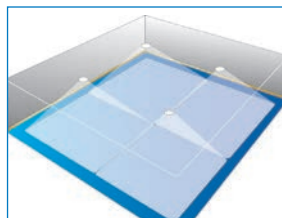
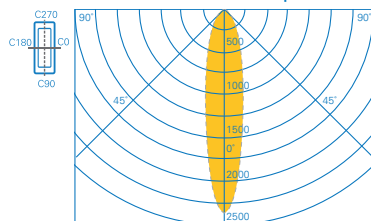
| Order code  | Description                | ⚡            | 🕒  | ☀️     | 🔋                      |
|-------------|----------------------------|--------------|----|--------|------------------------|
| BT1SC-B1    | BeamTech Small 1x250lm     | 2.3VA/1.6W   | 1h | 250 lm | NiCd 4Cs, 4.8V / 1.7Ah |
| BT1SD-B3    | BeamTech Small 1x250lm     | 3VA/2.4W     | 3h | 250 lm | NiCd 3D, 3.6V / 4Ah    |
| BT1SC-B1CGL | BeamTech Small 1x250lm CGL | 2.3VA / 1.6W | 1h | 250 lm | NiCd 4Cs, 4.8V / 1.7Ah |
| BT1SD-B3CGL | BeamTech Small 1x250lm CGL | 3VA / 2.4W   | 3h | 250 lm | NiCd 3D, 3.6V / 4Ah    |
| BT1SC-D1    | BeamTech Small 1x500lm     | 2.3VA/1.6W   | 1h | 500 lm | NiCd 4Cs, 4.8V / 1.7Ah |
| BT1SL-D2    | BeamTech Small 1x500lm     | 5VA/4.5W*    | 2h | 500lm  | LiFePo4 6.4V / 3.2Ah   |
| BT1SL-D3    | BeamTech Small 1x500lm     | 5VA/4.5W*    | 3h | 500 lm | LiFePo4 6.4V / 3.2Ah   |
| BT1SC-D1-AT | BeamTech Small 1x500lm AT  | 2.3VA / 1.6W | 1h | 500 lm | NiCd 4Cs, 4.8V / 1.7Ah |
| BT1SL-D3CGL | BeamTech Small 1x500lm CGL | 5VA / 4.5W*  | 3h | 500 lm | LiFePo4 6.4V / 3.2Ah   |

\*While charging, less than 1W in standby

### Accessories

| Order code | Description                    |
|------------|--------------------------------|
| BT1SRB     | BeamTech Small 1 Recessed Base |
| BTSGRID    | BeamTech Small Grid (53x30x22) |

### BeamTech 1 Light Head Narrow beam at 0° slope

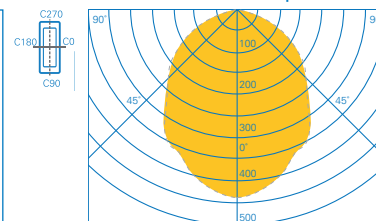


Open area for 0.5 lux



Escape route for 1 lux

### BeamTech 1 Light Head Wide beam at 0° slope



### Planning help for BeamTech 1 Light Head with Narrow & Wide beam 1.0 lx (0.5lx)

Maintenance factor MF = 80 %, battery operation and distances in m

| Luminaire type                                                                     | Height (m) | Distance for 1 Lux (0.5 Lux) |             |           |              |  |
|------------------------------------------------------------------------------------|------------|------------------------------|-------------|-----------|--------------|--|
|                                                                                    |            |                              |             |           |              |  |
| Ceiling mounting<br>Escape route centre<br>1 Light Head 250lm<br>Narrow beam at 0° | 4,00       | 3,5 (—)                      | 8,7 (—)     | 3,5 (—)   | 8,7 (—)      |  |
|                                                                                    | 5,00       | 3,6 (3,8)                    | 9,4 (9,7)   | 3,6 (3,8) | 9,4 (9,6)    |  |
|                                                                                    | 7,50       | 3,7 (4,2)                    | 10,4 (11,7) | 3,7 (4,2) | 10,4 (11,6)  |  |
|                                                                                    | 10,00      | 3,4 (4,2)                    | 10,5 (12,9) | 3,5 (4,3) | 10,6 (12,8)  |  |
|                                                                                    | 12,50      | 3,1 (4,1)                    | 10,1 (13,7) | 3,1 (4,1) | 10,4 (13,7)  |  |
| Ceiling mounting<br>Escape route centre<br>1 Light Head 500lm<br>Narrow beam at 0° | 5,00       | 4,7 (—)                      | 11,61 (—)   | 4,7 (—)   | 11,61 (—)    |  |
|                                                                                    | 7,50       | 5,2 (5,3)                    | 13,5 (14,1) | 5,2 (5,3) | 13,5 (14,1)  |  |
|                                                                                    | 10,00      | 5,3 (5,6)                    | 14,5 (16,1) | 5,3 (5,7) | 14,5 (16,0)  |  |
|                                                                                    | 12,50      | 5,1 (5,7)                    | 14,9 (17,4) | 5,2 (5,9) | 15,0 (17,3)  |  |
|                                                                                    | 15,00      | 4,8 (5,8)                    | 14,8 (18,6) | 4,8 (5,8) | 14,96 (18,5) |  |
|                                                                                    | 20,00      | 3,9 (5,4)                    | 13,8 (19,7) | 4,0 (5,5) | 14,0 (19,8)  |  |

| Luminaire type                                                                   | Height (m) | Distance for 1 Lux (0.5 Lux) |             |           |              |  |
|----------------------------------------------------------------------------------|------------|------------------------------|-------------|-----------|--------------|--|
|                                                                                  |            |                              |             |           |              |  |
| Ceiling mounting<br>Escape route centre<br>1 Light Head 250lm<br>Wide beam at 0° | 2,50       | 3,6 (3,7)                    | 8,9 (8,7)   | 3,6 (3,7) | 8,8 (8,8)    |  |
|                                                                                  | 3,00       | 3,8 (3,9)                    | 9,5 (9,5)   | 3,8 (3,9) | 9,6 (9,8)    |  |
|                                                                                  | 4,00       | 4,0 (4,3)                    | 10,7 (11,1) | 4 (4,3)   | 10,62 (11,0) |  |
|                                                                                  | 5,00       | 4,0 (4,4)                    | 11,3 (12,4) | 4,1 (4,5) | 11,2 (12,28) |  |
|                                                                                  | 7,50       | 3,2 (4,5)                    | 11,3 (14,2) | 3,2 (4,5) | 11,3 (14,0)  |  |
| Ceiling mounting<br>Escape route centre<br>1 Light Head 500lm<br>Wide beam at 0° | 3,00       | 4,7 (4,6)                    | 11,5 (11,6) | 4,8 (4,7) | 11,9 (11,2)  |  |
|                                                                                  | 4,00       | 5,4 (5,2)                    | 13,2 (13,1) | 5,3 (5,1) | 13,2 (13,4)  |  |
|                                                                                  | 5,00       | 5,6 (5,6)                    | 14,6 (14,9) | 5,6 (5,6) | 14,5 (14,6)  |  |
|                                                                                  | 7,50       | 5,7 (6,1)                    | 16,1 (18,0) | 5,7 (6,1) | 16,0 (17,9)  |  |
|                                                                                  | 10,00      | — (6,2)                      | — (19,9)    | — (6,1)   | — (19,6)     |  |

\* Spacing tables above are examples of performance of certain models with specific lumen output, installed on specific heights at few headlamps direction options. Complete performance characteristics for all models, all installation heights and all headlamp direction options can be derived by the use of the LTD files available on request.



**Narrow light distribution** enables installations and ideal for large, escape routes and illumination of safety equipments. A maximum spacing of up to 16.5m between luminaires reduces the number of required light points and an application range from 5m up to 20m for 1Lux enables mounting at the normally occurring heights.



**Wide light distribution** enables higher height installations and ideal for large and high areas where no fixed escape route is defined, meaning that the complete area must be illuminated. A maximum spacing of up to 16m between luminaires reduces the number of required light points and an application range from 2.5m up to 10m for 1Lux enables mounting at the normally occurring heights.



BeamTech high intensity light source provides efficient illumination of long, narrow escape routes, but can also provide general wide coverage of a specific area when positioned at any degree specified to each other, in locations where higher illumination is required.

Additionally the light output and the narrow and wide light distribution can be configured by the user (e-focus) in order to provide ease of installation and adopt the product into all relevant emergency applications.

