

RoHS

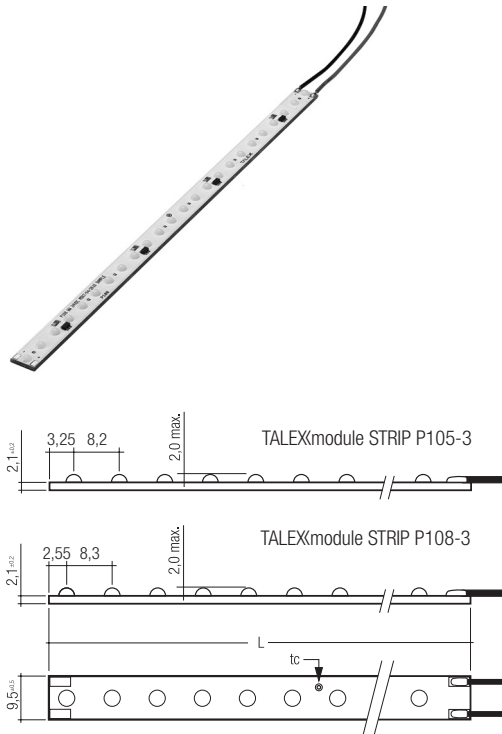
**TALEXmodule STRIP P105-3 / P108-3**  
TALEXmodule STRIP

**Product description**

- LED strip module for highlighting lines and edges and for side injection
- For safety lighting, general lighting, effect lighting and shelf lighting
- Suitable for TALEXaccessory PROFILE Z200-2 / 201-2 / Z22W-2
- Edge injection of transparent or diffuse materials
- With maximum possible beam angle for uniform illumination
- Low-profile
- Dimmable by pulse width modulation (PWM)
- Integrated current source to stabilise luminous flux
- Attached with premounted thermally conductive double-sided adhesive tape
- Connection: Cable 200 mm

**Technical data**

|                         |                |
|-------------------------|----------------|
| Beam characteristic     | 140°           |
| Ambient temperature ta  | -25 ... +50 °C |
| tc point <sup>①</sup>   | 75 °C          |
| Risk group <sup>®</sup> | 0              |



Colour temperatures and tolerances, page 4

**Ordering data**

| Colour <sup>④</sup>               | Colour temperature <sup>⑤</sup> | Type             | Article number  |
|-----------------------------------|---------------------------------|------------------|-----------------|
| <b>24 light points per module</b> |                                 |                  |                 |
| Daylight white                    | 6,500 K                         | <b>P105-3 DL</b> | <b>89601049</b> |
| Neutral white                     | 4,200 K                         | <b>P105-3 NW</b> | <b>89601048</b> |
| Warm white                        | 3,000 K                         | <b>P105-3 WW</b> | <b>89601047</b> |
| <b>6 light points per module</b>  |                                 |                  |                 |
| Daylight white                    | 6,500 K                         | <b>P108-3 DL</b> | <b>89601052</b> |
| Neutral white                     | 4,200 K                         | <b>P108-3 NW</b> | <b>89601051</b> |
| Warm white                        | 3,000 K                         | <b>P108-3 WW</b> | <b>89601050</b> |

Packaging TALEXmodule STRIP P105-3: 20 pieces/carton

Packaging TALEXmodule STRIP P108-3: 10 pieces/carton

**Specific technical data**

| Type                              | Typ. luminous flux <sup>②</sup> | Supply voltage DC <sup>③</sup> | Power <sup>②</sup> | Colour rendering index CRI <sup>⑥</sup> | Total length     |
|-----------------------------------|---------------------------------|--------------------------------|--------------------|---|------------------|
| <b>6 light points per module</b>  |                                 |                                |                    |   |                  |
| <b>P105-3 DL</b>                  | 51 lm                           | 24 V                           | 0.90 W             | 75                                      | 47.5 +/- 0.4 mm  |
| <b>P105-3 NW</b>                  | 41 lm                           | 24 V                           | 0.90 W             | 80                                      | 47.5 +/- 0.4 mm  |
| <b>P105-3 WW</b>                  | 35 lm                           | 24 V                           | 0.90 W             | 80                                      | 47.5 +/- 0.4 mm  |
| <b>24 light points per module</b> |                                 |                                |                    |   |                  |
| <b>P108-3 DL</b>                  | 204 lm                          | 24 V                           | 3.65 W             | 75                                      | 196.0 +/- 0.4 mm |
| <b>P108-3 NW</b>                  | 163 lm                          | 24 V                           | 3.65 W             | 80                                      | 196.0 +/- 0.4 mm |
| <b>P108-3 WW</b>                  | 140 lm                          | 24 V                           | 3.65 W             | 80                                      | 196.0 +/- 0.4 mm |

<sup>①</sup> If the max. temperature limits are exceeded, the life of the module will be reduced or the module may be damaged. The temperature of the TALEXmodule at the tc-point is to be measured in the thermally stable state. For tc-point see the above diagram.

<sup>②</sup> Tolerance range for optical and electrical data: ±15 %.

<sup>③</sup> Exceeding the max. operating voltage leads to an overload on the TALEXmodule. This may in turn result in a significant reduction in lifetime or even in destruction. Tolerance range for the supply voltage: 24 V: +2 V / -0 V

<sup>④</sup> Colour coordinates and tolerances according to CIE 1964. For details please refer to page 3.

<sup>⑤</sup> Colour temperature and CRI according to CIE 1931.

<sup>⑥</sup> Please refer to EN 62471:2008.

All values at ta = 25 °C.

**Converters matrix – TALEX(module STRIP P105-3 / P108-3**

| IN-BUILT LCU   |               |                 |                 |                 |
|----------------|---------------|-----------------|-----------------|-----------------|
| Type           | 0010 K301 24V | LCU 060/24 D010 | LCU 100/24 D010 | LCU 150/24 D010 |
| Article number | 86456215      | 22185184        | 22185185        | 22185186        |

| Assignable converters     |                   |      |      |      |      |      |      |      |               |
|---------------------------|-------------------|------|------|------|------|------|------|------|---------------|
| Type                      | Number of modules |      |      |      |      |      |      |      | Max. chaining |
|                           | Min.              | Max. | Min. | Max. | Min. | Max. | Min. | Max. |               |
| TALEX(module STRIP P105-3 | 2                 | 11   | 6    | 66   | 12   | 111  | 23   | 166  | 40            |
| TALEX(module STRIP P108-3 | 1                 | 2    | 2    | 16   | 3    | 27   | 6    | 41   | 10            |

**Converters matrix – TALEX(module STRIP P105-3 / P108-3**

| REMOTE LCU     |               |                       |               |                 |                 |                 |                 |
|----------------|---------------|-----------------------|---------------|-----------------|-----------------|-----------------|-----------------|
| Type           | 0025 K201 24V | 0025 K210 24V one4all | 0025 K211 24V | LCU 035/24 E020 | LCU 060/24 E020 | LCU 100/24 E020 | LCU 150/24 E020 |
| Article number | 86453418      | 86455937              | 86455066      | 24166320        | 24166324        | 24166328        | 24166333        |

| Assignable converters     |                   |      |      |      |      |      |      |      |      |      |      |      |      |      |               |
|---------------------------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|
| Type                      | Number of modules |      |      |      |      |      |      |      |      |      |      |      |      |      | Max. chaining |
|                           | Min.              | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |               |
| TALEX(module STRIP P105-3 | 2                 | 27   | 2    | 27   | 2    | 27   | 4    | 38   | 6    | 66   | 12   | 111  | 23   | 166  | 40            |
| TALEX(module STRIP P108-3 | 1                 | 6    | 1    | 6    | 1    | 6    | 1    | 9    | 2    | 16   | 3    | 27   | 6    | 41   | 10            |

**Lighting controls matrix – TALEX(module STRIP P105-3 / P108-3**

| REMOTE        |          |          |          | IN-BUILT      |  |
|---------------|----------|----------|----------|---------------|--|
| Typ           | C001     | C002     | C004     | C003 DALI RGB |  |
| Artikelnummer | 86454974 | 86454968 | 24138760 | 86457912      |  |

| Assignable lighting controls |                   |      |      |      |      |      |                   |      |               |
|------------------------------|-------------------|------|------|------|------|------|-------------------|------|---------------|
| Typ                          | Number of modules |      |      |      |      |      | Number of modules |      | Max. chaining |
|                              | Min.              | Max. | Min. | Max. | Min. | Max. | Min.              | Max. |               |
| TALEX(module STRIP P105-3    | 2                 | 53   | 2    | 53   | 2    | 53   | 2                 | 16   | 40            |
| TALEX(module STRIP P108-3    | 1                 | 13   | 1    | 13   | 1    | 13   | 1                 | 3    | 10            |

**Electrical supply/choice of converter**

TALEXmodule STRIP from Tridonic is not protected against overvoltages, overcurrents, overloads or short-circuit currents. Safe and reliable operation can only be guaranteed in conjunction with a converter which complies with the relevant standards.

The use of TALEX converters from Tridonic in combination with TALEXmodule STRIP guarantees the necessary protection for safe and reliable operation.

The TALEXmodule STRIP is only for the operation with SELV < 60V.

The operation at converters with output voltage > 60V is with an additional preparations possible. Further information on request.

If a converter other than Tridonic TALEXconverter is used, it must provide the following protection:

- Short-circuit protection
- Overload protection



TALEXmodule STRIP P105-3/P108-3 must be supplied by a constant voltage converter.

Operation with a constant current converter will lead to an irreversible damage of the module. Reversed polarity can damage the TALEXmodule STRIP P105-3/P108-3.

**Wiring**

Cable: AWG24; length 200 mm

|          |     |       |
|----------|-----|-------|
| Colour   | red | black |
| Function | +   | -     |

**Heat sink characteristics**

**TALEXmodule STRIP P105-3**

| ta    | tc    | R <sub>th, hs-a</sub> |
|-------|-------|-----------------------|
| 25 °C | 65 °C | 51.0 K/W              |
| 35 °C | 65 °C | 38.0 K/W              |
| 45 °C | 65 °C | 25.0 K/W              |
| 50 °C | 65 °C | 18.5 K/W              |

**TALEXmodule STRIP P108-3**

| ta    | tc    | R <sub>th, hs-a</sub> |
|-------|-------|-----------------------|
| 25 °C | 65 °C | 12.8 K/W              |
| 35 °C | 65 °C | 9.5 K/W               |
| 45 °C | 65 °C | 6.2 K/W               |
| 50 °C | 65 °C | 4.6 K/W               |

**Notes**

Above values are guidelines based on natural convection, heat sink material: aluminium ≥ 1 mm thick,

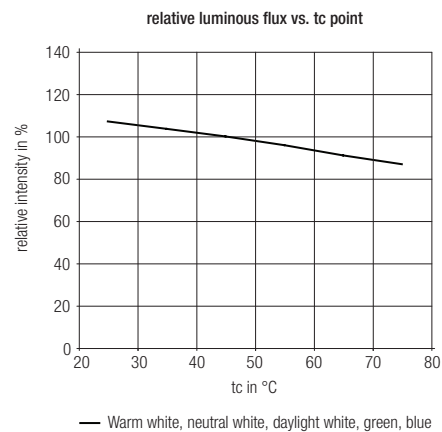
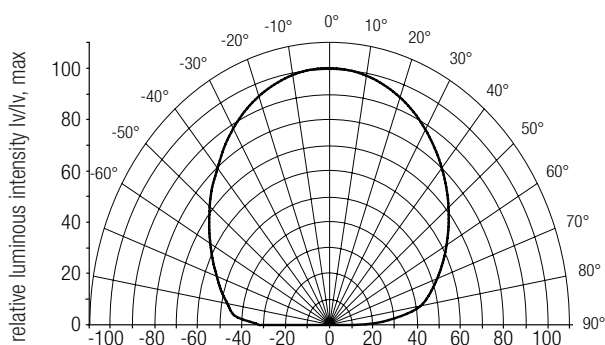
R<sub>th, hs-a</sub> = required thermal resistance of heat sink

The actual required heat sink surface need to be corrected according to the actually measured temperature at tc.

**Optical characteristics TALEXmodule STRIP P105-3/P108-3**

The optical design of the TALEXmodule STRIP lens system ensures an optimum of homogeneity for the light distribution.

**Light distribution**



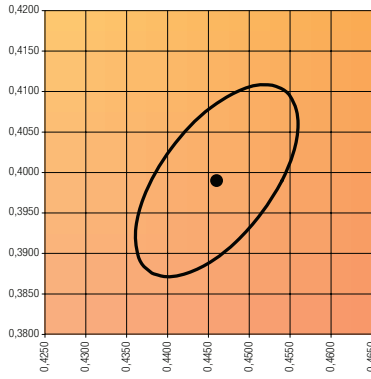
The diagrams based on statistic values.  
The real values can be different.

Coordinates and tolerances according to CIE 1964

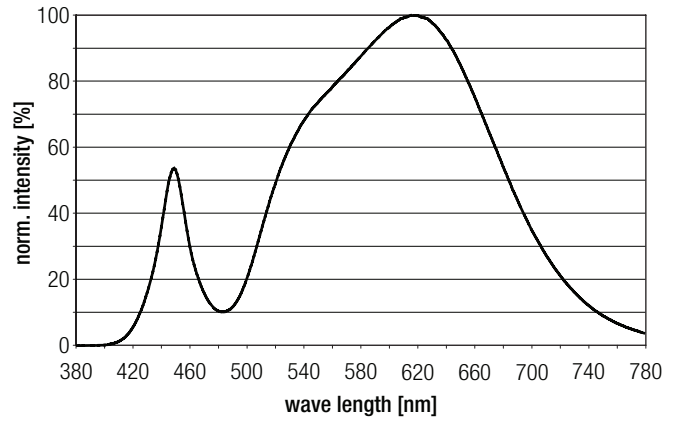
The specified colour coordinates are measured by a voltage impulse of 24V and a duration of 100 ms.  
The ambient temperature of the measurement is  $t_a = 25\text{ }^\circ\text{C}$ .

3,000 K

|        | x0     | y0     |
|--------|--------|--------|
| Centre | 0.4460 | 0.3990 |

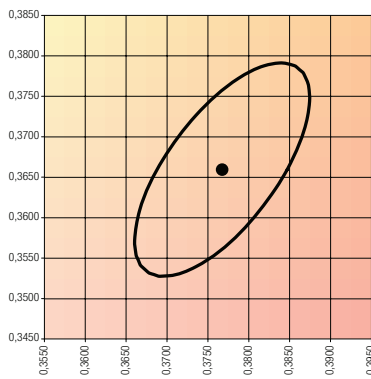


MacAdam ellipse: 5SDCM

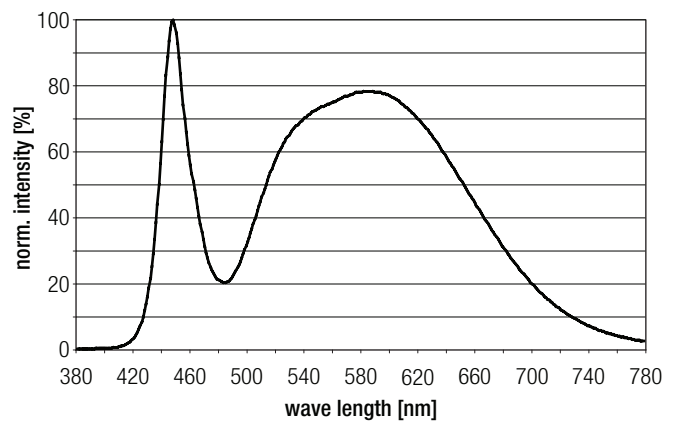


4,200 K

|        | x0     | y0     |
|--------|--------|--------|
| Centre | 0.3770 | 0.3660 |

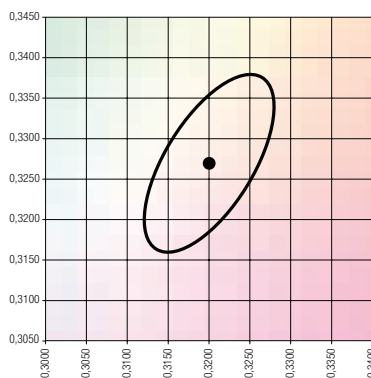


MacAdam ellipse: 5SDCM



6,500 K

|        | x0     | y0     |
|--------|--------|--------|
| Centre | 0.3200 | 0.3270 |



MacAdam ellipse: 5SDCM

