

# PRODUCT DATASHEET

## TRUSYS FLEX P 50W 865 VW CL WT DALI

TruSys® FLEX VERY WIDE | Luminaire inserts with very wide light distribution, up to 175 lm/W



### Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Industry halls, high rack warehouse, hardware stores
- Discounters, supermarkets

### Product benefits

- Very wide light distribution for area lighting
- Easy installation, no tools required for connection
- Energy saving and cost-effective
- Flexible application due to a range of different lumen packages and beam angles
- 5 years guarantee

### Product features

- Beam angle very wide: 120°
- Click into place solution with smart click buttons
- Luminous efficacy: up to 175 lm/W
- Fixed luminaire taps
- Luminaire versions available with on-off or IoT-ready DALI-2 driver
- Steel-sheet housing
- Lens material: PMMA
- Type of protection: IP40



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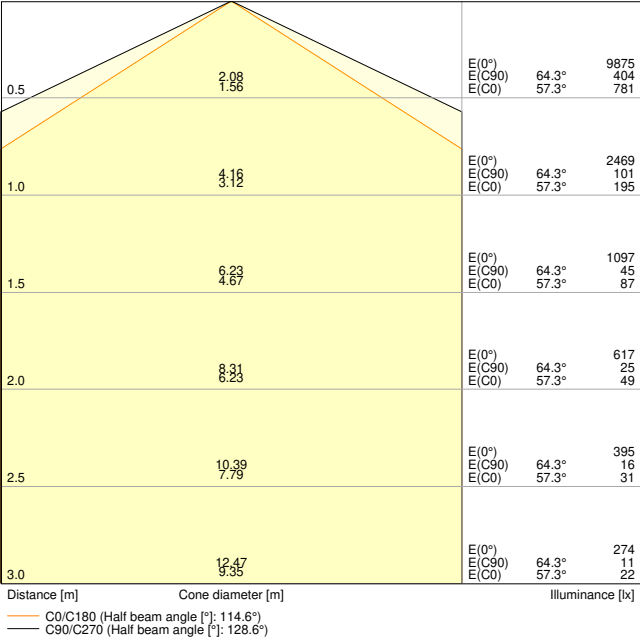
## TECHNICAL DATA

### Electrical data

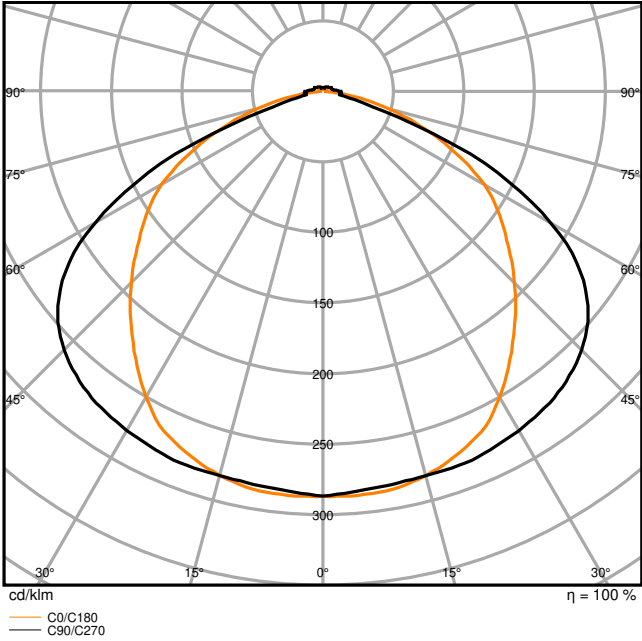
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 50.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 0/50/60 Hz            |
| Nominal current                                             | 230.000 mA            |
| Inrush current                                              | 43.8 A                |
| Inrush current time $T_{h50}$                               | 188 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 9                     |
| Max. number of luminaires per miniature circuit breaker C10 | 7                     |
| Max. number of luminaires per miniature circuit breaker C16 | 12                    |
| Power factor $\lambda$                                      | $\geq 0.94$           |
| Total harmonic distortion                                   | $\leq 15 \%$          |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |
| Dimming interface                                           | DALI-2 / IoT          |

### Photometrical data

|                                              |                    |
|----------------------------------------------|--------------------|
| Luminous flux                                | 8600 lm            |
| Luminous efficacy                            | 175 lm/W           |
| Color temperature                            | 6500 K             |
| Light color (designation)                    | Cool Daylight      |
| Color rendering index Ra                     | $\geq 80$          |
| Standard deviation of color matching         | 3 sdc <sub>m</sub> |
| Low flicker                                  | Yes                |
| Flickering metric (Pst LM)                   | $\leq 1$           |
| Stroboscope effect metric (SVM)              | $\leq 0.4$         |
| Photobiological safety group acc. to EN62778 | RG1                |
| Beam angle                                   | 120 °              |



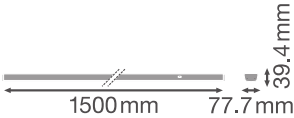
TRUSYS FLEX P 50W 865 VW CL WT DALI



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Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1500.00 mm |
| Width          | 77.70 mm   |
| Height         | 39.40 mm   |
| Product weight | 1750.00 g  |



TRUSYS FLEX luminaire - clear

Materials & Colors

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Product color                              | White                         |
| Housing color                              | White                         |
| RAL Color (most similar)                   | RAL 9016                      |
| Body material                              | Steel                         |
| Cover material                             | Polymethylmethacrylate (PMMA) |
| Light emitting surface material            | Polymethylmethacrylate (PMMA) |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C                        |
| Mercury content                            | 0.0 mg                        |

### Application & Mounting

|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Ambient temperature range              | -25...+40 °C                                               |
| Temperature range at storage           | -40...+80 °C                                               |
| Type of connection                     | Plug-In connection                                         |
| Type of protection                     | IP40                                                       |
| Protection class IK (shock resistance) | IK04                                                       |
| Dimmable                               | Yes                                                        |
| Type of dimming                        | DALI                                                       |
| IoT ready                              | Support of DALI data type PART 251, 252, 253 <sup>1)</sup> |
| Mounting type                          | Suspended/Surface                                          |
| Mounting location                      | Mounting rail                                              |
| Application environment                | Indoor                                                     |
| Adjustable                             | No                                                         |
| With light source                      | Yes                                                        |
| Replaceable light source               | No                                                         |

<sup>1)</sup> Internet of Things. Supports data transfer via gateway to cloud-based monitoring platforms, such as LEDVANCE VIVARES Cloud

### Lifespan

|                            |                        |
|----------------------------|------------------------|
| Lifespan L70/B50 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 76000 h <sup>1)</sup>  |
| Lifespan L80/B50 at 25 °C  | 89000 h                |
| Lifespan L90/B10 at 25 °C  | 43000 h                |
| Number of switching cycles | 100000                 |

<sup>1)</sup> t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

### Control gear

|                             |         |
|-----------------------------|---------|
| Output current              | 1050 mA |
| ECG - Output ripple current | < 10 %  |

### Emergency lighting

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| Type of Emergency Lighting (EL)  | EL certified driver (0Hz / DC operation) for central battery operation included |
| Type of emergency operation test | None                                                                            |

### Certificates & Standards

|                                                      |                             |
|------------------------------------------------------|-----------------------------|
| Standards                                            | CE / CB / UKCA / ENEC / EAC |
| Luminaire with limited surface temperature, "D sign" | Yes                         |
| Ball shot safe                                       | No                          |
| Replaceable light source (EPREL)                     | Not replaceable             |

### Additional product data

|                |         |
|----------------|---------|
| Added function | VIVARES |
|----------------|---------|

### EQUIPMENT / ACCESSORIES

– Mounting rail with fixed integrated 5- and 8-pole cable

### Upgrade and replacement components

|                          |
|--------------------------|
| Components Light Control |
|--------------------------|

| Product image                                                                       | Product name                                            | EAN           |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|---------------|
|  | MANUAL CONTROL UNIT SELECT DALI-2                       | 4058075837485 |
|  | MANUAL CONTROL UNIT SELECT DALI-2 TW                    | 4058075837508 |
|  | MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW | 4058075837522 |
|  | MANUAL CONTROL UNIT TOUCH DALI-2 TW                     | 4058075837560 |

| Product image                                                                       | Product name                                                   | EAN           |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------|
|    | MANUAL CONTROL UNIT TOUCH DALI-2                               | 4058075837546 |
|     | PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW                        | 4058075837584 |
|     | SURFACE MOUNT FRAME                                            | 4058075843561 |
|    | PUSHBUTTON COUPLER DALI-2                                      | 4058075837607 |
|     | FLEX CONTROL UNIT IOT DALI-2 HCL TW                            | 4058075841888 |
|  | FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW                        | 4058075841901 |
|   | FLEX CONTROL UNIT DALI-2 TW                                    | 4058075843844 |
|   | FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW                | 4058075841925 |
|   | SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION    | 4058075837621 |
|   | SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION    | 4058075841949 |
|   | SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION | 4058075843868 |

| Product image                                                                     | Product name                                              | EAN           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------|---------------|
|   | SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING | 4058075843882 |
|  | SENSOR CEILING MOUNTING KIT                               | 4058075843905 |

DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                       |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------|
|    | User instruction / safety instructions | TRUSYS FLEX DALI 865                |
|    | Legal information                      | Legal insert TRUSYS FLEX DALI       |
|    | Legal information                      | LSI TRUSYS FLEX 865 DALI            |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG  |
|  | Declarations of conformity             | TRUSYS FLEX DALI                    |
|  | Declarations of conformity UKCA        | TRUSYS FLEX DALI                    |
|  | Certificates                           | ENEC Certificate Trusys Flex DALI   |
|  | EU Data Act                            | DALI LED Driver and Luminaires      |
| Photometric and lighting design files                                              |                                        | Document name                       |
|  | IES file (IES)                         | TRUSYS FLEX P 50W 865 VW CL WT DALI |
|  | LDT file (Eulumdat)                    | TRUSYS FLEX P 50W 865 VW CL WT DALI |
|  | ULD file (DIALux)                      | TRUSYS FLEX P 50W 865 VW CL WT DALI |
|  | ROLF file (RELUX)                      | TRUSYS FLEX P 50W 865 VW CL WT DALI |





## References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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