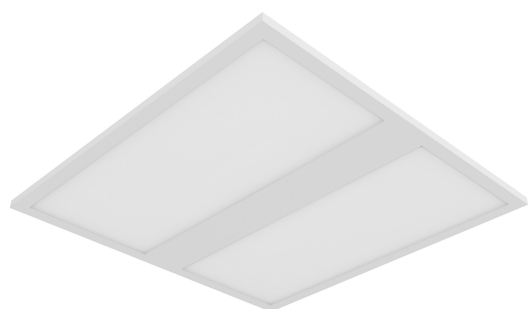


# PRODUCT DATASHEET

## PL PROT 625 ZB P 36W 840 U19

PANEL PROTECT 625 UGR<19 ZIGBEE | Square recessed panel luminaires with IP54 protection, Zigbee 3.0 technology and low glare, 625 x 625 mm



### Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Suitable for recessed ceiling systems with grid size of 625 x 625 mm
- Hospitals
- Laboratories
- Kitchens, canteens, workspaces

### Product benefits

- Suitable luminaire for DIRECT EASY / VIVARES Zigbee and other Zigbee 3.0 Light Management Systems
- Suitable for use in applications where a higher IP protection is needed
- High lumen output with up to 5040 lm
- Tool-free electrical connection due to push button connector
- Through-wiring possible with included connector box
- Energy savings thanks to high system efficacy: up to 140 lm/W
- High color consistency with SDCM 3
- Extended services such as energy monitoring and remote maintenance possible with Zigbee versions
- Good glare reduction (UGR < 19)
- Extended heat resistance of the diffuser with up to 850° C

### Product features

- IoT-ready luminaire with Zigbee 3.0 technology
- Type of protection: IP54 (frontside), IP20 (backside)
- Steel housing with notch in the backside for the driver to allow maximum height of 34 mm
- Polycarbonate (PC) diffuser
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm²
- Lifetime (L90/B10): 50,000 h (at 25° C)
- Panel can be customized with optical sensors on individual request

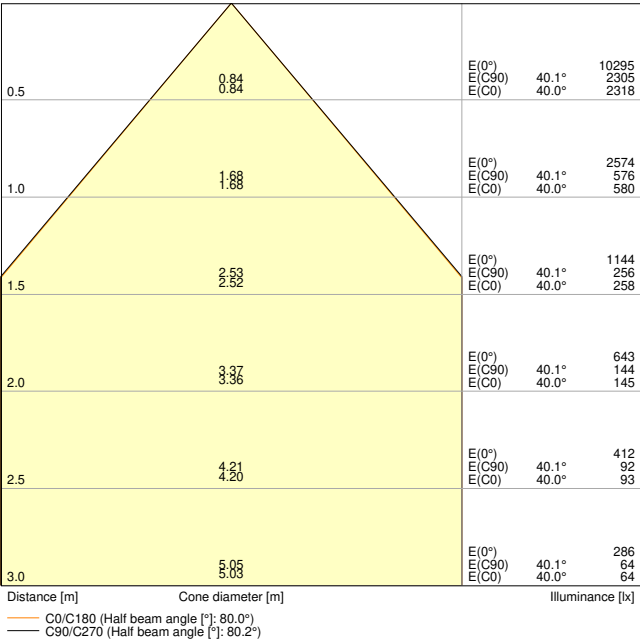
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**TECHNICAL DATA****Electrical data**

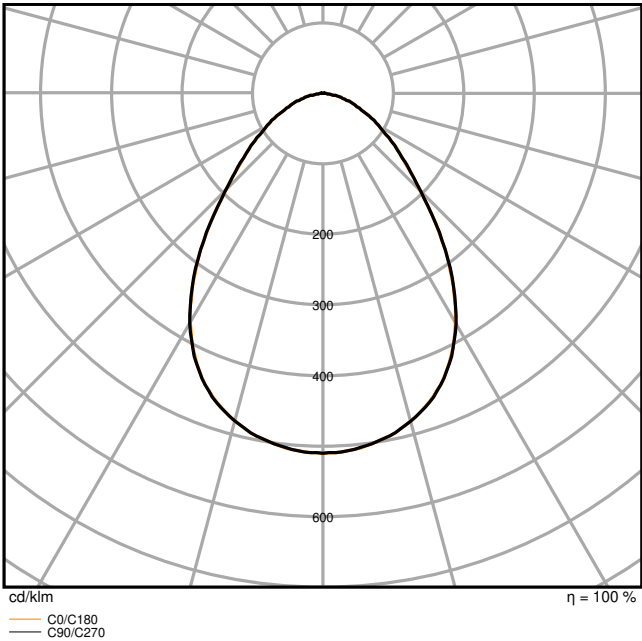
|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 36.00 W             |
| Nominal voltage                                             | 220...240 V         |
| Mains frequency                                             | 0/50/60 Hz          |
| Nominal current                                             | 165.000 mA          |
| Inrush current                                              | 60 A                |
| Inrush current time $T_{h50}$                               | 2.72 $\mu$ s        |
| Max. number of luminaires per miniature circuit breaker B16 | 12                  |
| Max. number of luminaires per miniature circuit breaker C10 | 10                  |
| Max. number of luminaires per miniature circuit breaker C16 | 16                  |
| Power factor $\lambda$                                      | > 0.90              |
| Total harmonic distortion                                   | < 20 %              |
| Protection class                                            | II                  |
| Surge capability (L-N)                                      | 1000 V              |
| Operating mode                                              | External LED driver |
| Dimming interface                                           | Zigbee Direct / IoT |

**Photometrical data**

|                                                |            |
|------------------------------------------------|------------|
| Luminous flux                                  | 5040 lm    |
| Total luminous flux of contained light sources | 6000 lm    |
| Luminous efficacy                              | 140 lm/W   |
| Color temperature                              | 4000 K     |
| Light color (designation)                      | Cool White |
| Color rendering index Ra                       | > 80       |
| Standard deviation of color matching           | 3 sdcm     |
| Low flicker                                    | Yes        |
| Flickering metric (Pst LM)                     | < 1        |
| Stroboscope effect metric (SVM)                | < 0.4      |
| Photobiological safety group acc. to EN62778   | RG0        |
| Beam angle                                     | 90 °       |
| UGR                                            | < 19       |



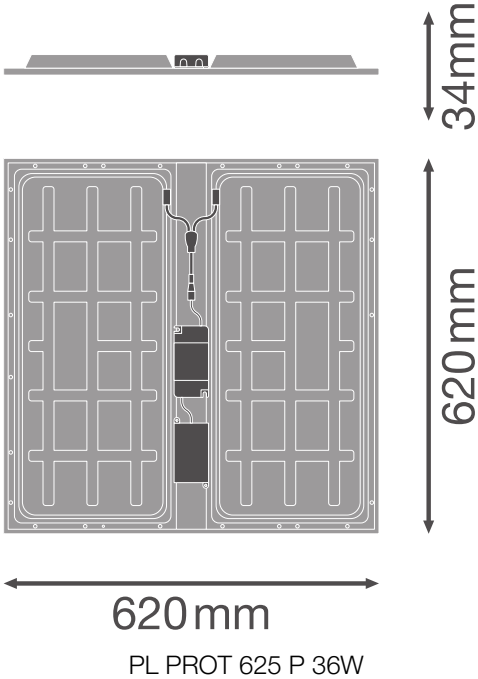
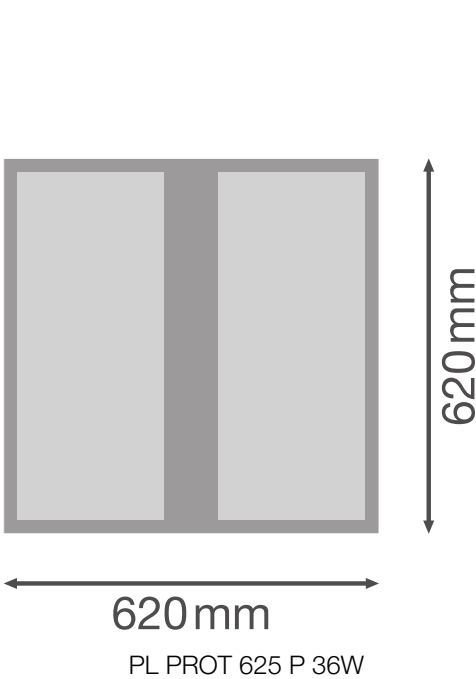
PL PROT 625 ZB P 36W 840 U19



PL PROT 625 ZB P 36W 840 U19

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 620 mm    |
| Width          | 620.00 mm |
| Height         | 34.00 mm  |
| Product weight | 2500.00 g |



## Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | White              |
| Housing color                              | White              |
| RAL Color (most similar)                   | RAL 9003           |
| Body material                              | Steel              |
| Cover material                             | Polystyrene (PS)   |
| Light emitting surface material            | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C             |
| Mercury content                            | 0.0 mg             |

## Application & Mounting

|                                        |                                                                                                                                                      |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature range              | -10...+50 °C                                                                                                                                         |
| Temperature range at storage           | -20...+70 °C                                                                                                                                         |
| Type of connection                     | Screwless terminal, 3-POLE (L, N, PE)                                                                                                                |
| Type of protection                     | IP54/IP20                                                                                                                                            |
| Protection class IK (shock resistance) | IK06                                                                                                                                                 |
| Dimmable                               | Yes                                                                                                                                                  |
| IoT ready                              | Support of Zigbee Data Clusters: 0x0302 (Luminaire Asset Management), 0x0702 (Smart Energy: Metering), 0x0B04 (Electrical Measurement) <sup>1)</sup> |
| Mounting type                          | Recessed/Suspended/Surface                                                                                                                           |
| Mounting location                      | Ceiling                                                                                                                                              |
| Application environment                | Indoor                                                                                                                                               |
| Mounting length                        | 600 mm                                                                                                                                               |
| Mounting width                         | 600 mm                                                                                                                                               |
| Mounting depth                         | 50 mm                                                                                                                                                |
| Adjustable                             | No                                                                                                                                                   |
| With light source                      | Yes                                                                                                                                                  |
| Replaceable light source               | Yes                                                                                                                                                  |

<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  | 70000 h <sup>1)</sup>  |
| Lifespan L80/B50 at 25 °C  | 70000 h                |
| Lifespan L90/B10 at 25 °C  | 50000 h                |
| Number of switching cycles | 100000                 |

1) 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              | 600...1200 mA |
| ECG - Output ripple current | < 5 %         |
| ECG - Length                | 119,0 mm      |
| ECG - Width                 | 45 mm         |
| ECG - Height                | 25 mm         |

Emergency lighting

|                                           |                                                                                 |
|-------------------------------------------|---------------------------------------------------------------------------------|
| Type of Emergency Lighting (EL)           | EL certified driver (0Hz / DC operation) for central battery operation included |
| Type of emergency operation test          | None                                                                            |
| Wattage in emergency operation mode       | 6.5 W                                                                           |
| Luminous flux in emergency operation mode | 720 lm                                                                          |

Certificates & Standards

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

Additional product data

|                |                               |
|----------------|-------------------------------|
| Product remark | Available from September 2025 |
| Added function | VIVARES                       |

EQUIPMENT / ACCESSORIES

- Accessories for several mounting options available
- Connector box with 5-pole terminal included
- Security brackets preinstalled
- External control gear included
- Special mounting frame with an overall height of only 50 mm available separately

Upgrade and replacement components

|                                                                                     |                                                     |               |
|-------------------------------------------------------------------------------------|-----------------------------------------------------|---------------|
| Components Light Control                                                            |                                                     |               |
| Product image                                                                       | Product name                                        | EAN           |
|  | MANUAL CONTROL UNIT SELECT DIRECT 100-240 TW RGB ZB | 4099854476334 |

| Product image                                                                       | Product name                     | EAN           |
|-------------------------------------------------------------------------------------|----------------------------------|---------------|
|     | SENSOR DIRECT LS-PD-7 IR CI ZB   | 4099854476358 |
|    | SWITCH KINETIC DIRECT 4B WT M ZB | 4099854589799 |
|    | SWITCH KINETIC DIRECT 4B WT G ZB | 4099854589812 |
|    | SWITCH KINETIC DIRECT 4B BK ZB   | 4099854589836 |
|    | SWITCH KINETIC DIRECT 4B GR ZB   | 4099854589850 |
|   | VIVARES ZB CONTROL               | 4058075427488 |
|   | VIVARES ZB L/O SENS 220-240      | 4058075446182 |
|   | VIVARES ZB O SENS 220-240        | 4058075544222 |
|   | VIVARES ZB COUPLER               | 4058075463806 |
|  | VIVARES ZB SENS ADAPTER          | 4058075650107 |

### Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- The luminaires are not suitable for covering with thermally insulated material.

DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                               |
|------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------|
|    | User instruction / safety instructions | User Instruction G11230683 PANEL PROTECT ZB |
|    | Legal information                      | PL PROT ZB P                                |
|    | Legal information                      | LUM PANELS_LI                               |
|    | Legal information                      | Safety Insert G11207793                     |
|    | Legal information                      | App Download guide                          |
|    | Declarations of conformity             | PL PROT                                     |
|    | Declarations of conformity UKCA        | PL PROT                                     |
|    | EU Data Act                            | SMART ZigBee Lamps and Luminaires           |
| Photometric and lighting design files                                              |                                        | Document name                               |
|  | IES file (IES)                         | PL PROT 625 ZB P 36W 840 U19                |
|  | LDT file (Eulumdat)                    | PL PROT 625 ZB P 36W 840 U19                |
|  | UGR file (UGR table)                   | PL PROT 625 ZB P 36W 840 U19                |
|  | Light distribution curve type cone     | PL PROT 625 ZB P 36W 840 U19                |
|  | Light distribution curve type polar    | PL PROT 625 ZB P 36W 840 U19                |
| CAD/BIM files                                                                      |                                        | Document name                               |
|  | BIM Revit 3D                           | PL PROT                                     |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4099854514692 | Folding box<br>1             | 41 mm x 627 mm x 627 mm              | 2928.00 g    | 16.12 dm³ |
| 4099854514708 | Shipping box<br>5            | 645 mm x 229 mm x 656 mm             | 15738.00 g   | 96.89 dm³ |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

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## References / Links

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

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Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.