

PRODUCT DATASHEET

PL FLEX 625 ZB S 32W 840

PANEL FLEX 625 ZIGBEE | Square recessed panel luminaire, for 625 x 625 mm ceiling systems and Zigbee 3.0 technology



Areas of application

- Suitable for recessed ceiling systems with grid size of 625 x 625 mm
- Direct replacement for recessed luminaires with fluorescent lamps
- Offices, conference rooms
- Reception areas, foyers, corridors, elevators

Product benefits

- Suitable luminaire for DIRECT EASY / VIVARES Zigbee and other Zigbee 3.0 Light Management Systems
- High lumen output with up to 5220 lm
- Energy savings thanks to high system efficacy: up to 160 lm/W
- High color consistency with SDCM 3
- External driver for extended flexibility and easy installation
- Low flicker light thanks to special electronic control gear
- Tool-free electrical connection due to push button connector
- Through-wiring possible with included connector box
- Decentral emergency lighting possible with separately available LEDVANCE Emergency Conversion Box
- Extended services such as energy monitoring and remote maintenance possible with Zigbee versions

Product features

- IoT-ready luminaire with Zigbee 3.0 technology
- Suitable for central battery emergency installations acc. to EN 60598-2-22
- Lifetime (L80/B10): 100,000 h (at 25 °C), (L90/B10): 50,000 h (at 25 °C)
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm²
- Extruded aluminum frame, metal housing
- Polystyrene diffuser

TECHNICAL DATA**Electrical data**

Nominal wattage	32.00 W
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	150.000 mA
Inrush current	5.24 A
Inrush current time T_{h50}	47.2 μ s
Max. number of luminaires per miniature circuit breaker B16	55
Max. number of luminaires per miniature circuit breaker C10	34
Max. number of luminaires per miniature circuit breaker C16	55
Power factor λ	0.95
Total harmonic distortion	< 7 %
Protection class	II
Surge capability (L-N)	1000 V
Operating mode	External LED driver
Dimming interface	Zigbee Direct / IoT

Photometrical data

Luminous flux	5220 lm
Luminous efficacy	160 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	3 sdc _m
Low flicker	Yes
Flickering metric (Pst LM)	< 1
Stroboscope effect metric (SVM)	< 0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	110 °
UGR	< 22

620 mm

32 mm

620 mm

PL PFM PL FLEX

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003

Body material	Aluminum
Cover material	Polystyrene (PS)
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...+80 °C
Type of connection	Screwless terminal, 3-POLE (L, N, PE)
Type of protection	IP40/IP20
Protection class IK (shock resistance)	IK02
Dimmable	Yes
IoT ready	Support of Zigbee Data Clusters: 0x0302 (Luminaire Asset Management), 0x0702 (Smart Energy: Metering), 0x0B04 (Electrical Measurement) ¹⁾
Mounting type	Recessed/Suspended/Surface
Mounting location	Ceiling
Application environment	Indoor
Mounting length	600 mm
Mounting width	620 mm
Mounting depth	50 mm
Adjustable	No
With light source	Yes
Replaceable light source	Yes

¹⁾ 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 ¹⁾
Lifespan L80/B10 at 25 °C	100000 h ¹⁾
Lifespan L80/B50 at 25 °C	100000 h
Lifespan L90/B10 at 25 °C	59000 h
Number of switching cycles	50000

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	750 mA
ECG - Output ripple current	3.0 %
ECG - Length	119,0 mm
ECG - Width	45 mm

ECG - Height	25 mm
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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 W
Luminous flux in emergency operation mode	750 lm

Certificates & Standards

Standards	CE / CB / TÜV / UKCA
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	By the end consumer

Additional product data

Added function	VIVARES
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Accessories Optional

Product image	Product name	EAN
	PANEL Suspension Kit	4058075402928
	PANEL 625 RECESSED MOUNT FRAME	4058075402904
	PANEL RECESSED MOUNT CLIPS VAL 4x	4058075409859
	EM CONVERSION BOX	4058075237025
	DR DS-P- 32/220-240/750 PL FLEX 625	4058075843691

Product image	Product name	EAN
	PANEL 625 SURFACE MOUNT KIT H75	4058075472938

EQUIPMENT / ACCESSORIES

- Accessories for several mounting options available
- Connector box with 5-pole terminal included
- Security brackets preinstalled
- External control gear included
- Serviceable luminaire: Upgrades and replacements available

Upgrade and replacement components

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

Product image	Product name	EAN
	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.
- If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or his service agent.
- Caution, risk of electric shock.
- The luminaires are not suitable for covering with thermally insulated material.

DOWNLOAD DATA

Documents and certificates	Document name
 PDF	User instruction / safety instructions PL FLEX 600 625 ZB
 PDF	Legal information PL FLEX ZB P
 PDF	Legal information LUM PANELS_LI
 PDF	Legal information Safety Insert G11207793
 PDF	Legal information App Download guide
 PDF	Declarations of conformity CE certificate PL FLEX CMFT ZB
 PDF	Declarations of conformity UKCA UKCA certificate PL FLEX CMFT ZB
 PDF	EU Data Act SMART ZigBee Lamps and Luminaires

Photometric and lighting design files		Document name
	IES file (IES)	PL FLEX 625 ZB S 32W 840
	LDT file (Eulumdat)	PL FLEX 625 ZB S 32W 840
	UGR file (UGR table)	PL FLEX 625 ZB S 32W 840
	Light distribution curve type cone	PL FLEX 625 ZB S 32W 840
	Light distribution curve type polar	PL FLEX 625 ZB S 32W 840

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854514432	Folding box 1	40 mm x 627 mm x 714 mm	2554.00 g	17.91 dm ³
4099854514449	Shipping box 4	737 mm x 179 mm x 657 mm	11538.00 g	86.67 dm ³

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.

References / Links

– For Guarantee see www.ledvance.com/guarantee

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