

PRODUCT DATASHEET

TruSys® PFM EM N 50 W 4000 K AT 3H

TruSys® PERFORMANCE EMERGENCY NARROW | Luminaire inserts with narrow light distribution for standard and emergency lighting



Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Buildings requiring up to 3 h emergency light operation
- Direct replacement for luminaires with fluorescent lamps
- Industry halls, high rack warehouse, garages, hardware stores

Product benefits

- Seamless integration of luminaires with emergency lighting function into general lighting
- Easy wiring thanks to included prewired driver and battery for Emergency lighting function
- Simple testing of luminaires with emergency lighting function thanks to integrated automatic test function
- Convenient visualization of results of automatic test with an included control LED
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- High luminous efficacy in normal operation
- 3 years guarantee
- Directed light distribution for high heights
- 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
- Rows of up to 57 luminaires possible

Product features



- Certified according to European norms (EN 60598-1:2015; EN 60598-2-22:2014)
- Luminaire suited for normal lighting and emergency lighting
- Self-contained luminaires
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)
- Battery technology: LiFePO₄
- Beam angle narrow: 60°
- Click into place solution with smart click buttons
- Luminous efficacy: up to 160 lm/W
- Fixed luminaire taps
- Steel-sheet housing

TECHNICAL DATA**Electrical data**

Nominal wattage	50.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	270.000 mA
Inrush current	30 A
Inrush current time T_{h50}	265 μ s
Max. number of luminaires per miniature circuit breaker B16	8
Max. number of luminaires per miniature circuit breaker C10	8
Max. number of luminaires per miniature circuit breaker C16	13
Power factor λ	> 0.90
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Integrated LED driver

Photometrical data

Luminous flux	8000 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 _{cm}
Low flicker	Yes
Photobiological safety group acc. to EN62778	RG1
Beam angle	60 °
UGR	21



TRUSYS PFM 50W 4000K N EM AT 3H



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Dimensions & Weight

Length	1500.00 mm
Width	66.80 mm
Height	39.40 mm
Product weight	1660.00 g



Materials & Colors

Product color	White
Housing color	White
Body material	Steel
Cover material	Polymethylmethacrylate (PMMA)
Light emitting surface material	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	5...+35 °C
Type of connection	Plug-In connection
Type of protection	IP20
Protection class IK (shock resistance)	IK04
Dimmable	Yes
Mounting type	Suspended/Surface
Mounting location	Mounting rail
Application environment	Indoor
With light source	Yes

Lifespan

Lifespan L70/B50 at 25 °C	65000 h ¹⁾
Lifespan L80/B10 at 25 °C	60000 h ¹⁾
Lifespan L80/B50 at 25 °C	60000 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

ECG - Output ripple current	< 20 %
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BATTERY

Type of Battery	LiFePO4
Nominal voltage of battery	3,2 V
Nominal capacity of battery	9000 mAh
Battery charging time	< 24 h

Emergency lighting

Area of emergency application	Anti-panic lighting / Escape route lighting
Type of emergency light operation	Maintained / Non-maintained
Type of emergency operation test	Automatic
Wattage in maintained operation mode	50 W

Wattage in emergency operation mode	4 W
Luminous flux in maintained operation mode	8000 lm
Luminous flux in emergency operation mode	600 lm
Battery life in emergency operation mode	3 h
Integrated test switch	No

Certificates & Standards

Standards	CE / CB / ENEC / EAC
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable

EQUIPMENT / ACCESSORIES

- Mounting rail with fixed integrated 8-pole cable

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	UI_Trusys_Trunking-System_Performance_EM
	User instruction / safety instructions	TRUNKING SYSTEM PFM EM
	Legal information	LS Insert Trusys PFM EM
	Declarations of conformity	TRUSYS PFM EM AT 3H

Photometric and lighting design files		Document name
	IES file (IES)	TRUSYS PFM 50W 4000K N EM AT 3H
	LDT file (Eulumdat)	TRUSYS PFM 50W 4000K N EM AT 3H
	ULD file (DIALux)	TRUSYS PFM 50W-4000K N
	ROLF file (RELUX)	TRUSYS PFM 50W-4000K
	UGR file (UGR table)	TRUSYS PFM 50W 4000K N EM AT 3H

Photometric and lighting design files		Document name
	Light distribution curve type cone	TRUSYS PFM 50W 4000K N EM AT 3H
	Light distribution curve type polar	TRUSYS PFM 50W 4000K N EM AT 3H
CAD/BIM files		Document name
	BIM Revit 3D	TruSys®-Performance
	CAD STEP 3D	TRUSYS PFM INSERT

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075291232	Folding box 1	83 mm x 1,571 mm x 88 mm	1835.00 g	11.47 dm ³
4058075291249	Shipping box 4	1,589 mm x 194 mm x 198 mm	8133.00 g	61.04 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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