

PRODUCT DATASHEET

TruSys® PFM N 50 W 4000 K DALI

TruSys® PERFORMANCE NARROW | Luminaire inserts with narrow light distribution



Areas of application

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

Product benefits

- 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 (On-Off) / 66 (DALI) luminaires possible
- Versions with DALI ECG available

Product features

- Beam angle narrow: 60°
- Click into place solution with smart click buttons
- Luminous efficacy: up to 160 lm/W
- Fixed luminaire taps
- Lumen package 5600 lm, 8000 lm, 11200 lm
- Steel-sheet housing
- Lens material: PMMA



- Type of protection: IP20
- Common family design with LEDVANCE
- Lifetime (L80/B10): up to 60,000 h

TECHNICAL DATA

Electrical data

Nominal wattage	50.00 W
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	270 mA
Inrush current	40 A
Inrush current time T_{h50}	178 μ s
Max. number of luminaires per miniature circuit breaker B16	15
Max. number of luminaires per miniature circuit breaker C10	14
Max. number of luminaires per miniature circuit breaker C16	23
Power factor λ	> 0.90
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	DALI

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 sdcn
Low flicker	Yes
Photobiological safety group acc. to EN62778	RG1
Beam angle	60 °
UGR	21



TRUSYS PFM 50W 4000K N DALI



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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
Type of connection	Plug-In connection
Type of protection	IP20
Protection class IK (shock resistance)	IK04
Dimmable	Yes
Type of dimming	DALI
Mounting type	Suspended/Surface
Mounting location	Mounting rail
Application environment	Indoor
With light source	Yes
Replaceable light source	No

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

Output current	620 mA
ECG - Output ripple current	< 20 %

Certificates & Standards

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

EQUIPMENT / ACCESSORIES

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

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	UI_TruSys® TRUNKING SYSTEM PFM DALI
	Legal information	LS Insert Trusys PFM DALI
	Declarations of conformity	CE TRUSYS PFM 50W 4000K N DALI AC17206
Photometric and lighting design files		Document name
	IES file (IES)	TRUSYS PFM 50W 4000K N DALI
	LDT file (Eulumdat)	TRUSYS PFM 50W 4000K N DALI
	ULD file (DIALux)	TRUSYS PFM 50W-4000K N DALI
	ROLF file (RELUX)	TRUSYS PFM 50W-4000K
	UGR file (UGR table)	TRUSYS PFM 50W 4000K N DALI
	Light distribution curve type cone	TRUSYS PFM 50W 4000K N DALI
	Light distribution curve type polar	TRUSYS PFM 50W 4000K N DALI
CAD/BIM files		Document name
	BIM Revit 3D	TruSys®-Performance
	CAD STEP 3D	TRUSYS PFM INSERT
Tender texts		Document name
	Tender documents	TruSys PERFORMANCE NARROW 50 W 4000 K DALI-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075291096	Folding box 1	83 mm x 1,571 mm x 88 mm	1835.00 g	11.47 dm ³

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075291102	Shipping box 4	1,589 mm x 194 mm x 198 mm	8133.00 g	61.04 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.

DISCLAIMER

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