

PRODUCT DATASHEET

TRUSYS UNIV P 50W 840 N CL DALI

TRUSYS UNIVERSAL DALI | The DALI solution for refurbishment - universal fitting to existing trunking luminaire system



Areas of application

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

Product benefits

- The solution for refurbishment: universal fitting to existing trunking luminaire system
- 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

Product features

- IoT-ready DALI-2 driver
- Beam angles: 120° (VW), 90° (W), 60° (N), 30° (VN)
- Click into place solution with smart click buttons
- Luminous efficacy: up to 180 lm/W
- Lifetime (L80/B10): up to 100,000 h (at 25 °C)
- Initial color consistency: ≤ 3 SDCM



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	20.75 A
Inrush current time T_{h50}	266 μ s
Max. number of luminaires per miniature circuit breaker B16	12
Max. number of luminaires per miniature circuit breaker C10	12
Max. number of luminaires per miniature circuit breaker C16	19
Power factor λ	≥ 0.90
Total harmonic distortion	< 15 %
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	DALI-2 / IoT

Photometrical data

Luminous flux	9000 lm
Luminous efficacy	180 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
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG1
Beam angle	60 °



Length	1504.00 mm
Width	68.00 mm
Height	26.00 mm
Product weight	1780.00 g



Materials & Colors

Product color	White
Housing color	White
Body material	Aluminum
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	-20...+40 °C
Temperature range at storage	-40...+80 °C
Type of connection	Plug-In connection
Type of protection	IP20
Protection class IK (shock resistance)	IK02
Dimmable	Yes
Type of dimming	DALI2
Mounting type	Surface/Suspended
Mounting location	Mounting rail
Application environment	Indoor
Adjustable	No
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	120000 h ¹⁾
Lifespan L80/B10 at 25 °C	100000 h ¹⁾
Lifespan L90/B10 at 25 °C	54000 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	550 mA
ECG - Output ripple current	< 5 %

Emergency lighting

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included
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Type of emergency operation test	None
Wattage in emergency operation mode	7.5 W
Luminous flux in emergency operation mode	1350 lm

Certificates & Standards

Standards	CE / CB / UKCA / ENEC / TÜV / EAC
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 June 2025
Added function	VIVARES

EQUIPMENT / ACCESSORIES

– Various accessories available

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	UI TRUSYS UNIVERSAL
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	Legal insert
	Legal information	Safety Insert G11205497
	Declarations of conformity	CE declaration TRUSYS UNIVERSAL
	Declarations of conformity UKCA	UKCA declaration TRUSYS UNIVERSAL
Photometric and lighting design files		Document name
	IES file (IES)	TRUSYS UNIV P 50W 840 N CL DALI

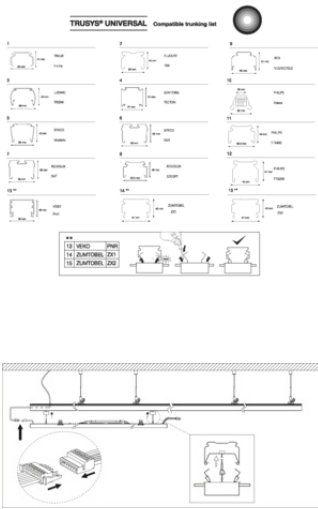
Photometric and lighting design files		Document name
	LDT file (Eulumdat)	TRUSYS UNIV P 50W 840 N CL DALI
	UGR file (UGR table)	TRUSYS UNIV P 50W 840 N CL DALI
	Light distribution curve type cone	TRUSYS UNIV P 50W 840 N CL DALI
	Light distribution curve type polar	TRUSYS UNIV P 50W 840 N CL DALI
CAD/BIM files		Document name
	BIM Revit 3D	TruSys Universal
	CAD STEP 3D	TRUSYS UNIV

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854496868	Folding box 1	93 mm x 1,540 mm x 69 mm	2070.00 g	9.88 dm ³
4099854496875	Shipping box 4	1,545 mm x 295 mm x 110 mm	9740.00 g	50.14 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.

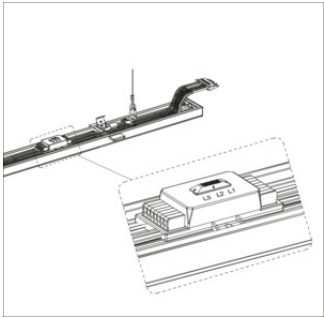
ADDITIONAL CATALOG INFORMATION



TruSys UNIVERSAL 50W ON/OFF						
	W	LM	1	2	3	
	20W	3700	—	—	—	
	30W	5550	—	ON	—	
	40W	7400	—	—	ON	
	50W	9000	—	ON	ON	

TruSys UNIVERSAL 73W ON/OFF						
	W	LM	1	2	3	4
	41W	7380	—	—	—	ON
	49W	8720	—	—	ON	—
	57W	10030	—	ON	—	—
	66W	11420	ON	—	—	—
	73W	12400	—	—	—	—

1x TRUSYS UNIV						
	2x TRUSYS UNIV	—	—	—	—	—
	4x TRUSYS UNIV	—	—	—	—	—
	6x TRUSYS UNIV	—	—	—	—	—
	8x TRUSYS UNIV	—	—	—	—	—
	10x TRUSYS UNIV	—	—	—	—	—
	12x TRUSYS UNIV	—	—	—	—	—
	14x TRUSYS UNIV	—	—	—	—	—
	16x TRUSYS UNIV	—	—	—	—	—
	18x TRUSYS UNIV	—	—	—	—	—
	20x TRUSYS UNIV	—	—	—	—	—
	22x TRUSYS UNIV	—	—	—	—	—
	24x TRUSYS UNIV	—	—	—	—	—
	26x TRUSYS UNIV	—	—	—	—	—
	28x TRUSYS UNIV	—	—	—	—	—
	30x TRUSYS UNIV	—	—	—	—	—
	32x TRUSYS UNIV	—	—	—	—	—
	34x TRUSYS UNIV	—	—	—	—	—
	36x TRUSYS UNIV	—	—	—	—	—
	38x TRUSYS UNIV	—	—	—	—	—
	40x TRUSYS UNIV	—	—	—	—	—
	42x TRUSYS UNIV	—	—	—	—	—
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	48x TRUSYS UNIV	—	—	—	—	—
	50x TRUSYS UNIV	—	—	—	—	—
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	70x TRUSYS UNIV	—	—	—	—	—
	72x TRUSYS UNIV	—	—	—	—	—
	74x TRUSYS UNIV	—	—	—	—	—
	76x TRUSYS UNIV	—	—	—	—	—
	78x TRUSYS UNIV	—	—	—	—	—
	80x TRUSYS UNIV	—	—	—	—	—
	82x TRUSYS UNIV	—	—	—	—	—
	84x TRUSYS UNIV	—	—	—	—	—
	86x TRUSYS UNIV	—	—	—	—	—
	88x TRUSYS UNIV	—	—	—	—	—
	90x TRUSYS UNIV	—	—	—	—	—
	92x TRUSYS UNIV	—	—	—	—	—
	94x TRUSYS UNIV	—	—	—	—	—
	96x TRUSYS UNIV	—	—	—	—	—
	98x TRUSYS UNIV	—	—	—	—	—
	100x TRUSYS UNIV	—	—	—	—	—



References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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