PRODUCT DATASHEET
TRUSYS UNIV P 50W 840 VW OP DALI

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



PERFOR-
MANCE
CLASS

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
- 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

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TECHNICAL DATA

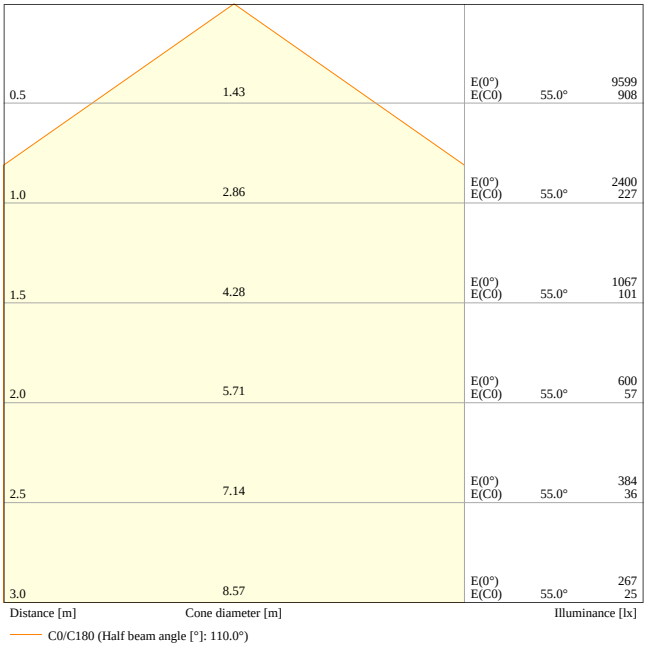
Electrical data

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 µs
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
Maximum total harmonic distortion	< 15 %
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	DALI-2 / IoT

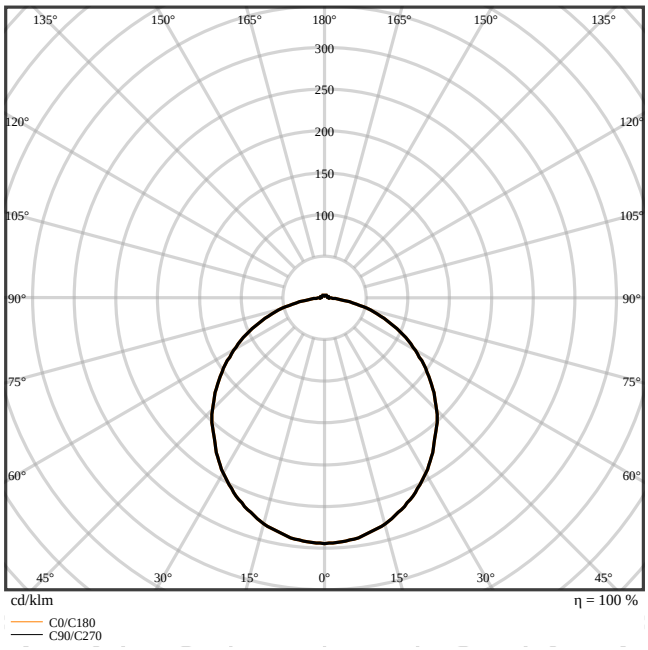
Photometrical data

Luminous flux	8150 lm
Luminous efficacy	163 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	RG1
Beam angle	120 °

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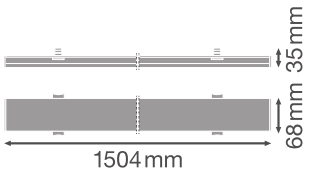
TRUSYS UNIV P 50W 840 VW OP DALI



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Dimensions & Weight

Length	1504.00 mm
Width	68.00 mm
Height	35.00 mm
Product weight	1710.00 g



TRUSYS UNIVERSAL OPAL

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Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Aluminum
Cover material	Polycarbonate (PC)
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	-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	DALI-2
Mounting type	Surface/Suspended
Mounting location	Mounting rail
Application environment	Indoor
Mechanically 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 [1)]
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
Output ripple current (100 Hz)	< 5 %

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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	7.5 W
Luminous flux in emergency operation mode	1230 lm

Certificates & Standards

Standards	CE / CB / UKCA / ENEC / TÜV / EAC / EPD
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00033-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	VIVARES

Components for light control

Components Light Control

Product image	Product name	EAN
	MANUAL CONTROL UNIT GROUP DALI-2 TW	4099854748691
	MANUAL CONTROL UNIT SELECT DALI-2	4058075837485
	MANUAL CONTROL UNIT SELECT DALI-2 TW	4058075837508
	MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW	4058075837522
	MANUAL CONTROL UNIT TOUCH DALI-2 TW	4058075837560

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Product image	Product name	EAN
	MANUAL CONTROL UNIT TOUCH DALI-2	4058075837546
	PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075837584
	PUSH CONTROL UNIT FM DALI-2 DIM	4099854846922
	SURFACE MOUNT FRAME	4058075843561
	PUSHBUTTON COUPLER DALI-2	4058075837607
	FLEX CONTROL UNIT IOT DALI-2 HCL TW	4058075841888
	FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075841901
	FLEX CONTROL UNIT DALI-2 TW	4058075843844
	FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW	4058075841925
	SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION	4058075837621
	SENSOR CEILING MOUNTING KIT LIGHT/PRESENCE-6	4099854748714

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Product image	Product name	EAN
	SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION	4058075841949
	SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION	4058075843868
	SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING	4058075843882
	HIGHBAY SENSOR DALI-2 LIGHT/PRESENCE -21 INFRARED CEILING MOUNTING	4058075857537
	DALI sensors -8 IR CI, -40X5 IR CI, -24 IR CM, -21 IR CM	4058075843905
	RELAY DALI-2 RAIL MOUNTING	4099854709159
	RELAY DALI-2 CEILING MOUNTING	4099854709135
	REPEATER DALI-2 RAIL MOUNTING	4099854709111
	REPEATER DALI-2 CEILING MOUNTING	4099854709098

EQUIPMENT / ACCESSORIES

– Various accessories available

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DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	UI TRUSYS UNIVERSAL
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Legal insert
PDF	Legal information	Safety Insert G11205497
PDF	Declarations of conformity	CE declaration TRUSYS UNIVERSAL
PDF	Declarations of conformity UKCA	UKCA declaration TRUSYS UNIVERSAL
PDF	EU Data Act	DALI LED Driver and Luminaires
PDF	EPD	EPD EN TRUSYS UNIVERSAL DALI

	Photometric and lighting design files	Document name
IES	IES file (IES)	TRUSYS UNIV P 50W 840 VW OP DALI
LDT	LDT file (Eulumdat)	TRUSYS UNIV P 50W 840 VW OP DALI
	UGR file (UGR table)	TRUSYS UNIV P 50W 840 VW OP DALI
	Light distribution curve type cone	TRUSYS UNIV P 50W 840 VW OP DALI
	Light distribution curve type polar	TRUSYS UNIV P 50W 840 VW OP DALI

	CAD/BIM files	Document name
RFA	BIM Revit 3D	TruSys Universal
STEP	CAD STEP 3D	TRUSYS UNIV OP

	Tender texts	Document name
TXT	Tender documents	TRUSYS UNIVERSAL DALI 50W 840 VW OP DALI-en

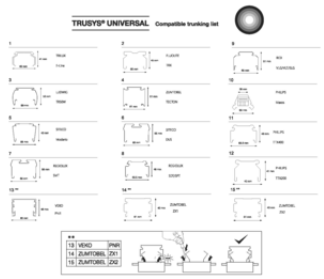
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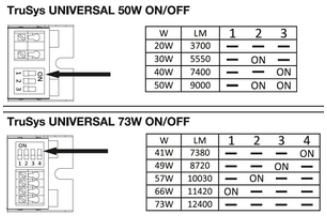
LOGISTICAL DATA

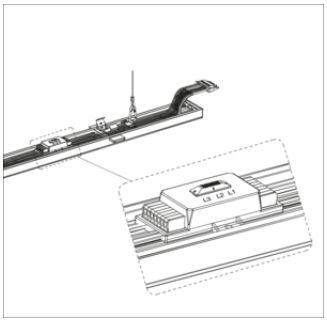
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854496820	Folding box 1	80 mm x 1,525 mm x 93 mm	2040.00 g	11.35 dm^3
4099854496837	Shipping box 4	1,545 mm x 335 mm x 122 mm	9640.00 g	63.14 dm^3

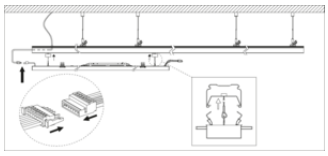
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

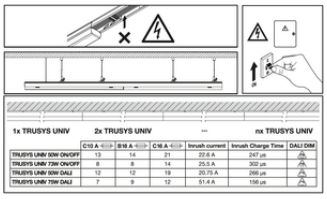
ADDITIONAL CATALOG INFORMATION











References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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