

LED TUNNEL LIGHT





















**TS21** TS21A TS21B TS21H TS21K

## **APPLICATIONS**

· Tunnel Lighting (Tunnel, underpass, corridor....)

## SPECIFICATION

Input Voltage: 100 ~ 277Vac 50 / 60Hz Input Frequency:

0.90 Power Factor:

Surge Protection Level: 10kV line-earth

Working Environment: -40°C~ +50°C, 10% ~90% RH CCT: 3000K, 4000K, 5000K, 5700K

CRI: ≥70

Housing: Die-cast Aluminium

IP Rating of LED Light Engine: IP68

IP Rating of Luminaire: IP67 \*IP66 with tempered glass

5 Years Limited Warranty:

#### **FEATURES**

#### Construction

- Die-cast aluminum housing.
- Unique patented IP68 LED light engines.
- Whole structure heating dissipation design with best thermal conduction and radiation.
- IP67 rated luminaire.
- Tempered glass cover available as optional choice
- Optional tempered glass cover.

#### Distribution

 Ergonomic and dedicated lighting distributions are available for various roadway applications.

#### Mounting

- · L-shaped brackets adjustable in ±60° by step of
- · L-shaped brackets adjustable in 360°, step-less.
- · Optional U-shaped mounting bracket.

## **PHOTOS**

**TS21** TS21A TS21B TS21H TS21K



# **FINISHING COLORS**

Gray	Black	Blue
White	Dark Gray	



Lumii	naire Type	Mc	odule Qt	y.	Syste	em Power	LE	ED Package	Cal	ole Standard		D Qty per dule
TS	Tunnel light	N2	2 engines	3	80	80W	С	3030	A C	CC+VDE	45	45pcs
		N3	3 engines	3	100	100W			<b>C</b> P	SE	63	63pcs
	21C series	N4	4 engines	3	120	120W			ΗU			
21D	21D series								ΧO	thers		
21E	21E series				240	240w						
Lens	Code			CRI 8	& CCT		Br	and of LEDs	Driv	ver Brand	Но	using Color
2340	Type I Short			7030	Ra≥70,	CCT 3000K	LU	LUMILEDS	SS	SOSEN	BK	Black
1392	Tunnel lightin	g		7040	Ra≥70,	CCT 4000K	хх	OTHER	IN	INVENTRONICS	WH	White
				7050	Ra≥70,	CCT 5000K			MO	MOSO	BU	Blue
				7057	Ra≥70,	CCT 5700K			XX	OTHER	GY	Gray

#### **PERFORMANCE**

			3030	LEDs	
Model	Power (W)	LED Qty (pcs)	Efficacy (Im/W)	Flux (lm)	
	80	45*2	127	10,160	
TS21C-N2	100	63*2	135	13,500	
	120	63*2	127	15,240	
	120	63*3	140	16800	
TS21D-N3	150	63*3	135	20250	
	180	63*3	127	22860	
	180	63*4	137	24660	
TS21E-N4	200	63*4	135	27000	
	240	63*4	127	30480	

Notes 1: Above values are calculated based on the product with CRI≥7 and CCT over 3000K, values of CCT 3000K are 5% lower than above values. Notes 2: Values shown are subject to ±5%~±8% tolerance.

Notes 3: With optional tempered glass cover, efficacy drops by around 8%.

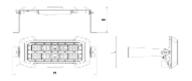
## **DIMENSIONS**

Model	L (mm)	W (mm)	H (mm)	<b>N.W.</b> * (kg)
TS21C	275	430	230	3.1
TS21D	375	430	230	5.3
TS21E	450	430	270	6.1

Notes: Typical values above, tolerance: dimensions ±5mm; N.W. ±5%

# **DISTRIBUTIONS**





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Example: TS21A-N1-30-AA-12-1616-7040-LU-SS-BK

Lumin	ary Type	Module Qty.	System P	ower	LED Package	Cable Standard	Qty of L	EDs
04.4	Innel light	N1 1 module	20 30 40	20W 30W 40W	<ul><li>A 3535</li><li>C 3030</li></ul>	A CCC+VDE C PSE H UL X Other	12 20 30 36*	12pcs 20pcs 30pcs 36pcs
Lens Code								
Lens C	code		CRI & CCT		Brand of LEDs	Driver Brand	Housing	Color

Notes: 36pcs-LEDs solution is only available for lens 1617.

## **PERFORMANCE**

Model	Powe r (W)	LED Qty (pcs)	Module M6A-VA Efficacy (Im/W)	Flux (lm)	LED Qty (pcs)	Module M6A- VC Efficacy (Im/W)	Flu x (lm)
	20	/	/	/	20	117	2340
TS21A	30	12	112	3360	30	117	3510
	40	12	107	4280	36	117	4680

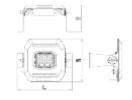
Notes 1: Above values are calculated based on the product with CRI≥7 and CCT over 3000K, values of CCT 3000K are 5% lower than above values.

Notes 2: Values shown are subject to ±5%~±8% tolerance.

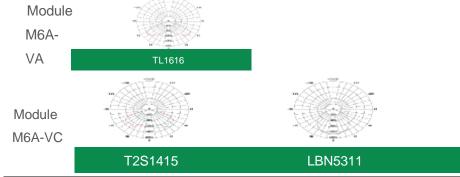
Notes 3: With optional tempered glass cover, efficacy drops by around 8%.

# **DIMENSIONS**

Model	L (mm)	W (mm)	H (mm)	N.W.* (kg)
TS21A	260	240	150	1.3



# **DISTRIBUTIONS**



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TL1617



Example: TS21B-N1-30-1393-7040-LU-SS-BK

Luminary Type	Module Qty.	System Power	LED Package	Cable Standard	Qty of LEDs
TS Tunnel light 21B 21B series	N1 1 module	30 30W 40 40W 50 50W 60 60W	<b>C</b> 3030	A CCC+VDE C PSE H UL X Other	30 30pcs 40 40pcs 50 50pcs 60 60pcs
Lens Code	CRI 8	& CCT	Brand of LEDs	Driver Brand	Housing Color
1393 Tunnel lighting 2213 Type I Short 2214 Lambertian Type	7030 7040 7050 7057	Ra≥70, CCT 3000K Ra≥70, CCT 4000K Ra≥70, CCT 5000K Ra≥70, CCT 5700K	LU LUMILEDS XX OTHER	SS SOSEN XX OTHER	BK Black WH White BU Blue GY Gray

## **PERFORMANCE**

Model	Powe r (W)	LED Qty (pcs)	Efficac y (lm/W)	Flu x (lm)	CRI	CC T (K)
	30	30	115	3450		
	40	40	115	4600	≥70	3000, 4000,
TS21B	50	50	115	5750		5000, 5700
	60	64	115	6900		3700

Notes 1: Above values are calculated based on the product with CRI≥7 and CCT over 3000K, values of CCT 3000K are 5% lower than above values.

Notes 2: Values shown are subject to ±5%~±8% tolerance.

Notes 3: With optional tempered glass cover, efficacy drops by around 8%.

## **DIMENSIONS**

Model	L	W	H	N.W.*
	(mm)	(mm)	(mm)	(kg)
TS21B	265	260	220	2.5

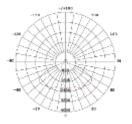
Notes: Typical values above. Tolerance of dimensions: ±5mm; of N.W.: ±5%.



# **DISTRIBUTIONS**







T1S2213 LBN2214 TL1393

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Example: TS21K-N1-60-CA-63-1390-7040-LU-MO-GY

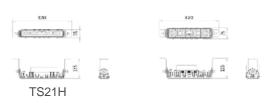
Lumir	nary Type	Module Qty.	System Power	LED Package	Cable Standard	Qty of LEDs
TS 21H 2	unnel light 1H series 1K series	N1 1 module	20 20W 30 30W 40 40W 50 50W 60 60W	C 3030	A CCC+VDE C PSE H UL X Other	20 20pcs 35 35pcs 45 45pcs 63 63pcs
Lens	Code	CRI & CCT		Brand of LEDs	Driver Brand	Housing Color
2519 2321 5390 1310 1390	Type I Short Type II Short 90 degree Lambertian type	7040 R: 7050 R: 7057 R:	a≥70, CCT 3000K a≥70, CCT 4000K a≥70, CCT 5000K CCT a≥70, 5700K	S SANAN OTHER	IN INVENTRONICS  MO MOSO SS SOSEN XX OTHER	BK Black WH White B Blu U e G Gra Y y
	Tunnel lighting					

# **PERFORMANCE**

Model	Power (W)	LED Qty (pcs)	Efficacy (lm/W)	Flux (lm)
	20	20	117	2340
TS21H	30	35	120	3600
	40	45	122	4880
	40	63	135	5400
TS21K	50	63	130	6500
	60	63	122	7320

Notes 1: Above values are calculated based on the product with CRI≥7 and CCT over 3000K, values of CCT 3000K are 5% lower than above values

Notes 2: Values shown are subject to ±5%~±8% tolerance.



## **DIMENSIONS**

Model	L (mm)	W (mm)	H (mm)	N.W.* (kg)
TS21H	320	55	135	1.4
TS21K	320	75	135	1.6

# DISTRIBUTIONS

TS21H

T1S2519

TS21K





90D5390





T2S2321

LBN1310

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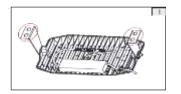




#### **INSTALLATION AND MAINTENANCE**

#### **INSTALLATION**

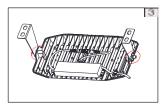
#### TS21&TS21B



 Fixate the luminaire onto the mounting surface with screws.
 (recommend M10 screws)



Connect the wires to AC input. Make sure it grounded sufficiently.



Loosen the M10 screws on brackets to adjust to a proper angle.

#### TS21A



1. Mount the fixture with screws at the bracket. (Mounting screws are not provided in package. Screw hole diameter: Ø11mm.)



2. Connect the wires to AC input. Make sure it grounded sufficiently.



3. Loosen the screws on brackets to adjust to a proper angle.

## CABLE CONNECTORS

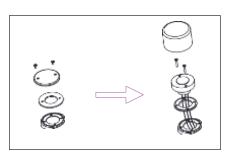


 Connect the male and female connectors by aligning the indicative arrow on them.



Hold the nut on one terminal still, meanwhile, rotating clockwise till the one on the other terminals is tightened up.Otherwise thewaterproof performance might be affected.

## INSTALLATION OF NEMA RECEPTACLE AND PHOTOCELL



- 1. Undo the two screws to remove the round cover and its white sealing washer.
- 2.Thread the wires of the receptacle through the black sealing washer into the electrical compartment of luminaire. Keep the screw holes in alignment among the receptacle, sealing ring and luminaire, and fixate the receptacle with two M4x25 cross recessed countersunk head screws.
- 3. Plug in and fasten the photocell. Connect the wires in the electrical compartment.

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**WIRING** 

Power Supply End	Earth wire	Neutral wire	Live wire
	Yellow-green lead	Blue lead	Brown lead
Fixture End	Green lead	White lead	Black lead

#### **CAUTION**

- a Disconnect or turn off power before installation, maintenance and wiring.
- **b** Cable connection must be insulated and waterproof.
- For luminaires with glass cover: the cover is made of tempered glass which shatters into small pieces without sharp edges when it breaks. Application condition: 30°C~100°C; maximum temperature rise Δt60°C.
- The light source of this luminaire is not replaceable. When the light source's lifetime comes to an end, it is the whole luminaire that should be replaced.

Warning: Danger! Electric shock risk!

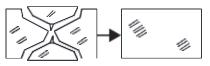
(via IEC 60417-6042 (2011-11) )

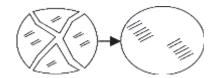


Round

For luminaires with glass cover: The broken cover should be replaced.

Rectangle





The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased.

They can take this product for environmental safe recycling

## **REMARKS**

- 1.This luminaire uses permanent connection on power supply with flexible cable and wires (60245 IEC57). Sufficient length of cable is reserved for connection to AC power. Protection over the connection joint and elimination of tensile force there should be ensured.ufficient.
- 2. This luminaire uses type Y attachment: method of attachment of the cable or cord such that any replacement can only be made by the manufacturer, his service agent or similarly qualified person.
- 3. Wiring: the connection to AC power should be operated on terminal blocks in a wiring box with a degree of protection at least equivalent to the luminaire, and there should be devices to fixate wires.
- 4. The luminaire can be mounted onto ordinary combustible surfaces.

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