

Linear Extrusions



TOKISTAR LIGHTING



Linear Extrusions

Tokistar® Linear Extrusions come in four distinct shapes and sizes to create exceptional lighting effects for a variety of interior and exterior applications. Fixtures can be ordered as single circuit for static operation or with multiple circuits to create animated chasing effects.

The TDR, TXRW and TXRA Series operate at 8VDC, and are easily dimmed using either DMX or 0/1-10VDC protocol. These systems feature our diverse range of highly efficient LEDs.

The EXC Series uses our Exhibitor Series LEDs and operates from industry standard 24VAC magnetic transformers and is fully dimmable.

Efficient and easily replaceable LEDs ensure these systems can be perfectly maintained year-round.



EXC Series wired for four-channel chase dramatically highlights the contours of this casino perimeter.

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Cover:
TDR Series accents this reception desk.



TDR Series polished gold finish stylishly blends in with this casino decor.



TXRA Series rigid aluminum extrusion is ideal for straight runs in exterior applications.



TXRW Series with blue P4 LEDs provides an attractive accent from behind translucent panels.



EXC Series

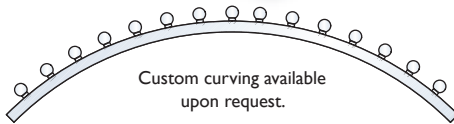
EXC Series incorporates Exhibitor Series into a 2" x 2" satin aluminum profile for use in all environments. Custom finishes are available upon request. Fixtures can be wired for single circuit or chasing effects.

EXC - 6 - UB - G19 - F

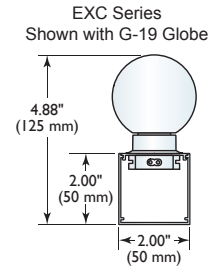
Extrusion Finish		Socket Spacing		LED			Globe Style		Globe Color			
Code	Color	Code	Inches (mm)	Code	Color	Watts/Volts	Code	Style	Code	Color		
EXC	Satin Aluminum	6	6" (150 mm)	UBLW	2000K White	1.8 W / 24 VAC	G19	G-19	C	Clear		
		12	12" (300 mm)	UB	2400K White	1.8 W / 24 VAC		G14		G-14	F	Frosted
		18	18" (450 mm)	VILW	2000K White	1.8 W / 24 VAC		S14		S-14	G	Green
		6C	6" Chase (150 mm)	VI	2400K White	1.8 W / 24 VAC				G-14 & S-14 in clear and frosted only	A	Amber
		12C	12" Chase (300 mm)	Virtual Incandescent (VILW & VI) not for use with Frosted Globes							B	Blue
				WW	2500K White	0.48 W / 24 VAC						
				WH	5500K White	0.48 W / 24 VAC						
				BL	Blue	0.48 W / 24 VAC						
				GR	Green	0.48 W / 24 VAC						
				OR	Orange	0.48 W / 24 VAC						
				PL	Purple	0.48 W / 24 VAC						
				RD	Red	0.48 W / 24 VAC						
				YG	Yellow-Green	0.48 W / 24 VAC						
				(Any Combination of 0.48 Watt Colors is Possible)								
Xenon Lamp												
				124	2500K	7.5 W / 24 VAC						
Xenon lamp not for use with G-14 globes												



Custom spacing is available.



Custom curving available upon request.



Virtual Incandescent and Ultra Bright LEDs

Virtual Incandescent™ LEDs do a remarkable job of emulating traditional incandescent filaments. Ultra Bright LEDs do the same, while providing a brighter light source. Both LEDs are rated at 1.8 watts.



Ultra-Bright LED



Virtual Incandescent™ LED

Ultra Bright and Virtual Incandescent LEDs				
Part#	Watts/Volts	Hours	Lumens	Color
EX-UB-LW	1.8 Watts / 24 VAC	40K - 50K	41	2000K
EX-UB	1.8 Watts / 24 VAC	40K - 50K	45	2400K
EX-VI-LW	1.8 Watts / 24 VAC	40K - 50K	36	2000K
EX-VI	1.8 Watts / 24 VAC	40K - 50K	40	2400K

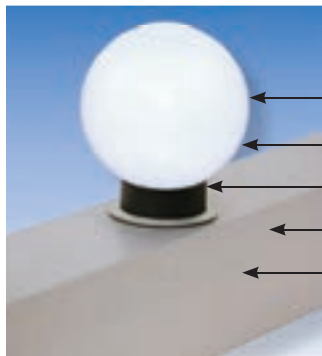
LEDs

Exhibitor LEDs operate at 24VAC and consume only 0.48 watts. This makes them our most energy-efficient light source and dramatically increases the maximum run length of each fixture. With incredible life ratings, LEDs are ideally suited for continuous operation in commercial applications.

LEDs with Frosted Globes



Specifications



- Light Sources are energy-efficient LEDs
- Polycarbonate Globe with flammability rating UL 94V-2
- Two O-Rings on each globe for weatherproof seal
- Raceway is extruded aluminum with satin finish
- Flexible Conductors #12 AWG stranded and plated wire

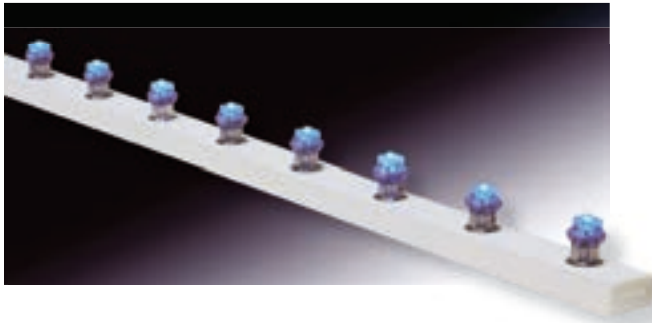


Tokistar's EXC Series is Wet Location Listed when operated from our transformers.





TXRW Series

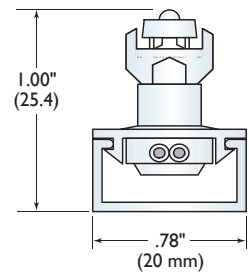


The TXRW Series with P4 LEDs is designed for indirect interior applications. The system's semi-rigid PVC profile ensures linear integrity and is easily mounted to any surface.

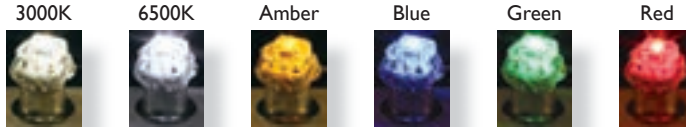
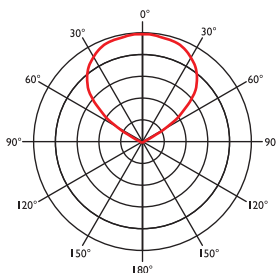
P4 LEDs do a remarkable job of indirect lighting by focusing a more concentrated amount of light on the reflective surface.

TXRW - 2 - P4BL

Extrusion Finish		Socket Spacing		P4 LEDs		
Code	Color	Code	Inches (mm)	Code	Color	Watts/Volts
TXRW	White	1	1" (25 mm)	P4IW	3000K White	0.24 W / 8VDC
		2	2" (50 mm)	P4WH	6500K White	0.24 W / 8VDC
		3	3" (75 mm)	P4AM	Amber	0.24 W / 8VDC
		4	4" (100 mm)	P4BL	Blue	0.24 W / 8VDC
				P4GR	Green	0.24 W / 8VDC
				P4RD	Red	0.24 W / 8VDC

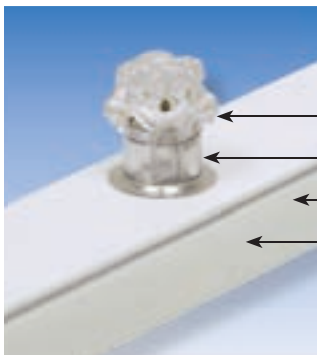


P4 LEDs



By combining different colors of P4 LEDs on the same fixture, blended colors can be created.

Specifications



- ← **LEDs** are 0.24 watt/8VDC
- ← **Polycarbonate Sockets** with flammability rating UL 94V-0
- ← **Extrusion** is PVC with flammability rating UL 94V-0
- ← **Conductors** are plated #18 AWG



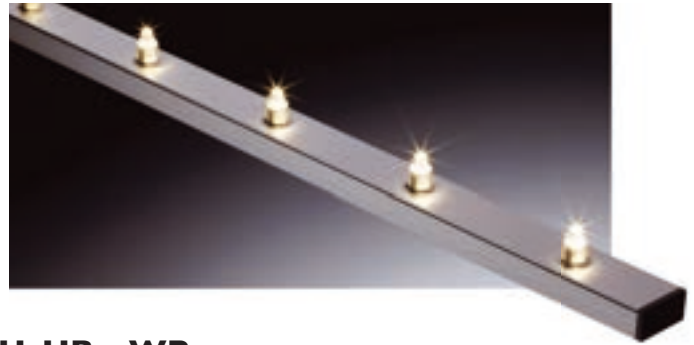
Tokistar's TXRW Series is ETL Listed when operated from our LED Drivers.





TXRA Series

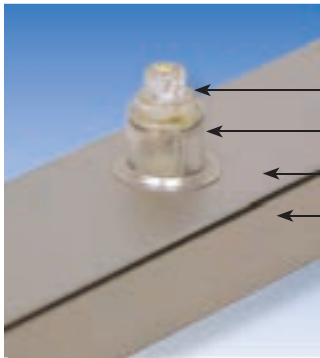
TXRA Series is suitable for all environments and wet location listed. The aluminum extrusion is ideal for long linear runs. Standard finish is satin aluminum. Custom finishes are available upon request. TokiLed light sources are provided with protective silicone caps. Fixtures can be wired for single circuit or four-channel chasing effects.



TXRA - 6 - WH-HB - WP

Extrusion Finish		Socket Spacing		TokiLeds		
Code	Color	Code	Inches (mm)	Code	Color	Watts/Volts
TXRA	Satin Aluminum	2	2" (50 mm)	LW	2000K White	0.1 W / 8VDC
	Consult factory for Custom Finish	3	3" (75 mm)	WW	2400K White	0.1 W / 8VDC
		4	4" (100 mm)	IW	3000K White	0.1 W / 8VDC
		6	6" (150 mm)	WH	6500K White	0.1 W / 8VDC
		12	12" (300 mm)	LW-HB	2000K White	0.2 W / 8VDC
		2C	2" Chase (50 mm)	WW-HB	2400K White	0.2 W / 8VDC
		3C	3" Chase (75 mm)	IW-HB	3000K White	0.2 W / 8VDC
		4C	4" Chase (100 mm)	WH-HB	6500K White	0.2 W / 8VDC
		0.4 Watt LEDs Not Available in Chasing Fixtures				
				LW-UB	2000K White	0.4 W / 8VDC
				WW-UB	2400K White	0.4 W / 8VDC
				IW-UB	3000K White	0.4 W / 8VDC
				WH-UB	6500K White	0.4 W / 8VDC
				AM	Amber	0.1 W / 8VDC
				BL	Blue	0.1 W / 8VDC
				GR	Green	0.1 W / 8VDC
				MG	Magenta	0.1 W / 8VDC
				PL	Purple	0.1 W / 8VDC
				RD	Red	0.1 W / 8VDC

Specifications



- Light Sources are LEDs with all-environment silicone caps
- Polycarbonate Sockets with flammability rating UL 94V-0
- Raceway is extruded aluminum with satin finish
- Conductors are plated #18 AWG



Tokistar's TXRA Series is Wet Location Listed when operated from our LED Drivers.



TXRA/TDR Light Sources

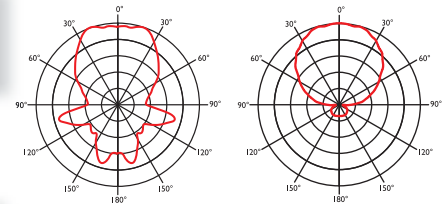
TXRA and TDR Series are provided with TokiLeds, our most durable and energy efficient light sources. Their unique phosphor-colored lens reflects light in all directions, resulting in full-range viewing.



2000K 2400K 3000K 6500K



Amber Blue Green Magenta Purple Red

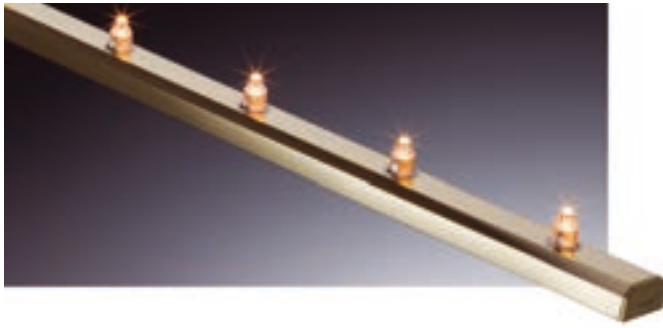


0.1 & 0.2 Watt TokiLeds

0.4 Watt UB TokiLeds



TDR Series



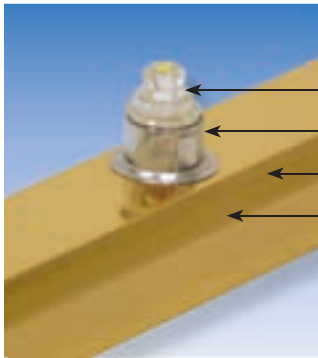
TDR Series is a semi-rigid PVC extrusion for use in interior applications. The reflective finish and faceted profile creates multiple sparkling images. It is rigid to maintain linear integrity, yet flexible enough to conform to a 24" radius with LEDs facing inward or outward. Fixtures can be wired for single circuit or four-channel chasing effects.

TDRPG - 4 - LW

Extrusion Finish		Socket Spacing		TokiLeds		
Code	Color	Code	Inches (mm)	Code	Color	Watts/Volts
PG	Polished Gold	2	2" (50 mm)	LW	2000K White	0.1 W / 8VDC
WH	White	3	3" (75 mm)	WW	2400K White	0.1 W / 8VDC
		4	4" (100 mm)	IW	3000K White	0.1 W / 8VDC
		6	6" (150 mm)	WH	6500K White	0.1 W / 8VDC
		2C	2" Chase (50 mm)	LW-HB	2000K White	0.2 W / 8VDC
		3C	3" Chase (75 mm)	WW-HB	2400K White	0.2 W / 8VDC
		4C	4" Chase (100 mm)	IW-HB	3000K White	0.2 W / 8VDC
				WH-HB	6500K White	0.2 W / 8VDC
				LW-UB	2000K White	0.4 W / 8VDC
				WW-UB	2400K White	0.4 W / 8VDC
				IW-UB	3000K White	0.4 W / 8VDC
				WH-UB	6500K White	0.4 W / 8VDC
				AM	Amber	0.1 W / 8VDC
				BL	Blue	0.1 W / 8VDC
				GR	Green	0.1 W / 8VDC
				MG	Magenta	0.1 W / 8VDC
				PL	Purple	0.1 W / 8VDC
				RD	Red	0.1 W / 8VDC

0.4 Watt LEDs Not Available in Chasing Fixtures

Specifications



Light Sources are LEDs

Polycarbonate Sockets with flammability rating UL 94V-0

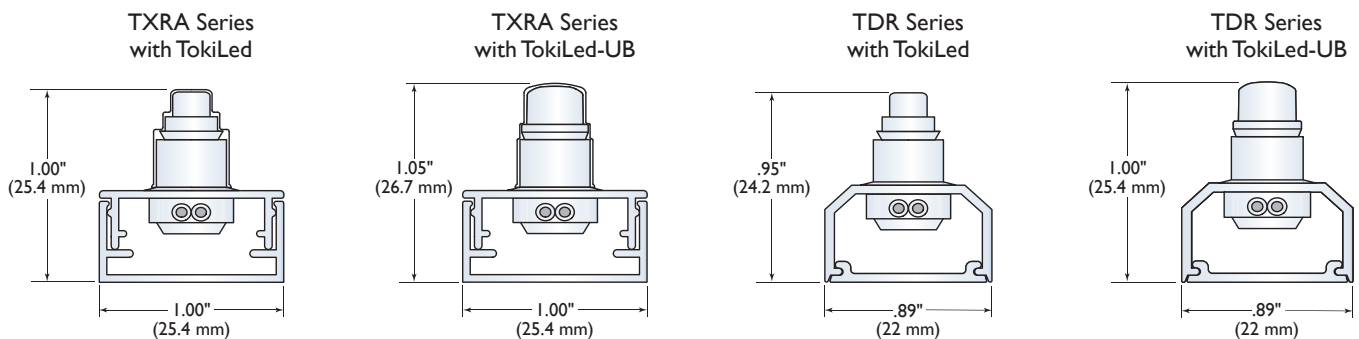
Extrusion is PVC with flammability rating UL 94V-0

Conductors are plated #18 AWG

Tokistar's TDR Series is ETL Listed when operated from our LED Drivers.



TXRA/TDR Profiles





System Layout

Maximum Fixture Length

To minimize voltage drop and keep conductors safely within their rating, do not exceed the maximum distances shown for independent run lengths with a single feed to the power supply. The maximum length for each TXR & TDR extrusion is 96-1/2" (2.5 M). The maximum length for EXC extrusion is 120" (3 M).

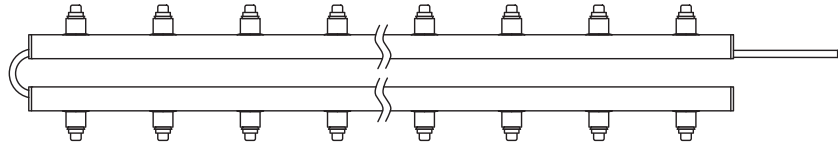
TXRW Series	
P4 LEDs / 8VDC	
Spacing	0.24 Watt
1" (25 mm)	13'10" (4.15 M)
2" (50 mm)	27' 8" (8.3 M)
3" (75 mm)	36' (11 M)
4" (100 mm)	40' (12 M)

TDR & TXRA Series			
LEDs / 8VDC			
Spacing	0.1 Watt	0.2 Watt	0.4 Watt
2" (50 mm)	40' (12 M)	30' (9 M)	16' (5 M)
3" (75 mm)	50' (15 M)	36' (10.8 M)	25' (7.5 M)
4" (100 mm)	60' (18 M)	40' (12 M)	30' (9 M)
6" (150 mm)	75' (22.5 M)	50' (15 M)	36' (10.8 M)
12" (300 mm)	100' (30 M)	80' (25 M)	60' (18 M)

EXC Series	
LEDs / 24VAC	
Spacing	0.48 Watt
6" (150 mm)	200' (60 M)
12" (300 mm)	300' (90 M)
18" (450 mm)	300' (90 M)

Fanfolds

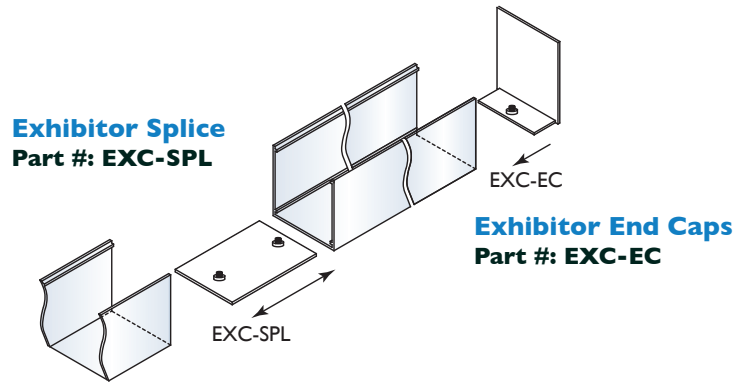
To accommodate longer run lengths, TXRW, TDR and TXRA Series can be provided in fanfolded sections.



Accessories

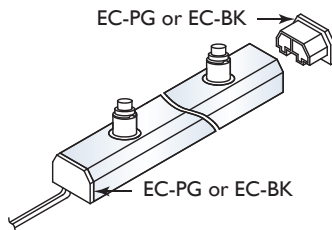
EXC Series

End Caps are required at the end and beginning of each run of fixture. When EXC fixtures are positioned end-to-end, a splice is needed to seam them together.

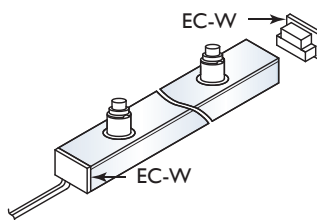


TDR/TXRW/TXRA Series

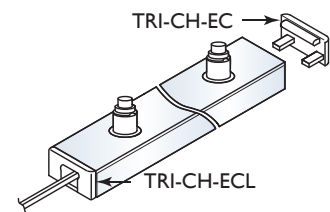
End Caps are optional to add a finishing touch.



TDR End Caps
Part #: **EC-PG**
Polished Gold End Cap
Part #: **EC-BK**
Black End Cap



TXRW End Caps
Part #: **EC-W**
White End Cap



TXRA End Caps
Part #: **TRI-CH-ECL**
Feed End Cap
Part #: **TRI-CH-EC**
Dead End Cap



TXRW/TXRA/TDR Static Series

LED Drivers

LDR8-40

Tokistar's LDR8-40 is a 40 watt Class 2 LED Driver used to convert an AC input into an 8VDC output. It may be operated from a wide range of input voltages. The enclosure is suitable for wet locations.



Specifications

Input Range: 100~240 VAC
Frequency Range: 50/60 Hz
Output: 8VDC (Adjustable +10% / -25%)
Max. Output Current: 5.0A
Max. Output Power: 40W
Protection: Overload, Overcurrent, Short Circuit
Operating Temperature: -30°C to +60°C

Mechanical Specifications

Dimensions: 3" x 9.75" x 2"
Weight: 1.94 lbs
Enclosure Rating: Nema 3/IP65
Mounting: Flange Mount
Connection: Knockouts for 1/2" Conduit

LED Capacity

0.10 Watt LEDs: 400 pieces
0.20 Watt LEDs: 200 pieces
0.24 Watt LEDs: 166 pieces
0.40 Watt LEDs: 100 pieces

Tokistar Linear Extrusions are ETL Listed when operated from our LED Drivers.



LDR8-80

Tokistar's LDR8-80 is a dual output Class 2 LED Driver with two independent 40 watt outputs. It may be operated from a wide range of input voltages. The enclosure is suitable for wet locations.



Specifications

Input Range: 100~240 VAC
Frequency Range: 50/60 Hz
Output: 8VDC (Adjustable +5% / -30%)
Max. Output Current: 10.0A (2 @ 5.0A)
Max. Output Power: 80W (2 @ 40W)
Protection: Overload, Overcurrent, Short Circuit
Operating Temperature: -30°C to +60°C

Mechanical Specifications

Dimensions: 3.6" x 11" x 2.25"
Weight: 4 lbs
Enclosure Rating: Nema 3/IP65
Mounting: Flange Mount
Connection: Knockouts for 1/2" Conduit

LED Capacity

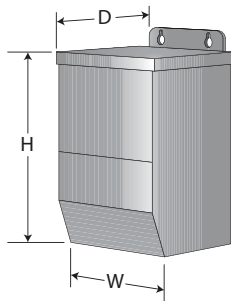
0.10 Watt LEDs: 800 pieces
0.20 Watt LEDs: 400 pieces
0.24 Watt LEDs: 332 pieces
0.40 Watt LEDs: 200 pieces

EXC Series

Transformers

Tokistar transformers operate from a 120 VAC/60 Hz input and are fully dimmable. They are provided in a Nema 3R enclosure suitable for wet locations. The secondary outputs are protected by circuit breakers. Transformers should be installed in an accessible location where there is free air circulation.

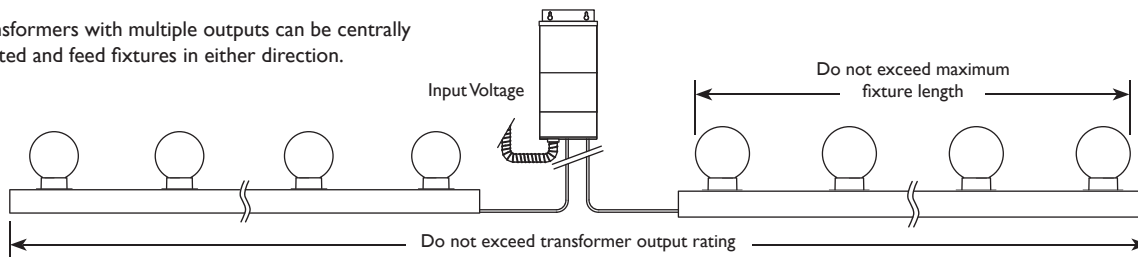
Tokistar's EXC Series is Wet Location Listed when operated from our transformers.



T24 Series Transformers						
Number	Outputs	D	H	W	Weight	
T24-150	1 @ 150 Watt / 24 VAC	3.0"	9.0"	3.0"	5 lbs	
T24-300	1 @ 300 Watt / 24 VAC	3.5"	9.5"	4.5"	8 lbs	
T24-600	1 @ 600 Watt / 24 VAC	4.5"	10.5"	4.5"	15 lbs	
T24-1200	2 @ 600 Watt / 24 VAC	5.0"	11.5"	7.0"	28 lbs	

Sizes and weights shown are approximate and subject to change without notice. Consult factory for transformers with input voltages of 230 or 277 VAC.

Transformers with multiple outputs can be centrally located and feed fixtures in either direction.





LED Dimmers

TXRW/TXRA/TDR Static Series

LC-ICH-MULTI Dimming System

Tokistar's LC-ICH-MULTI Dimmer Pack is compatible with industry-standard dimmers working on DMX or 0/1-10VDC protocol. In the manual mode, a preset light level can be set without the use of an external dimmer.



Part #: LC-ICH-MULTI

Technical Specifications:
 Max. Load: 40 Watts @ 8VDC
 Environmental Rating: Dry Location/IP20
 Dimensions: 3/4" x 1-3/4" x 3-1/2"
 Weight: 50g / 0.11 lbs
 Listing: ETL Listed/CE Certified
 Operating Temperature: 0~+50°C

DMX Mode

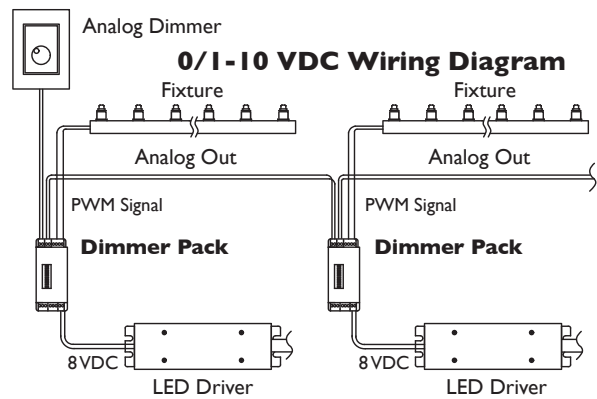
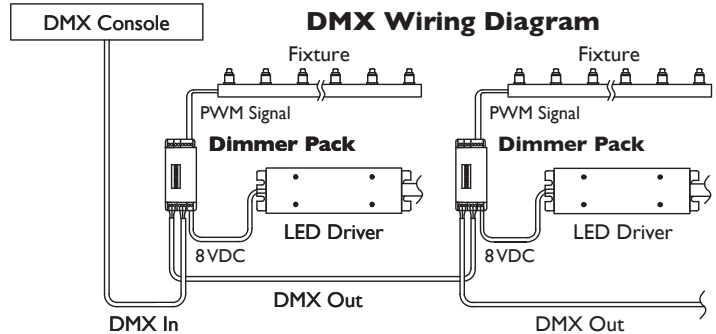
In this mode, dimmer packs are addressable and may be used with any controller working on DMX protocol. Up to 36 dimmer packs may be connected in series. For applications exceeding 36 dimmer packs, an additional feed from the DMX dimmer is required. The additional feed(s) can be sent directly from the dimmer, or you may specify DMX Splitters. Consult factory on details of DMX Splitters.

Analog Mode 0/1-10VDC

For operation from devices using 0/1-10VDC protocol, up to 10 dimmer packs may be connected in series. For applications exceeding 10 dimmer packs, an additional feed from the analog dimming device is required.

Manual Mode

You may select a light intensity at which the fixtures operate. In this case, no external dimming device is required.



LC Dimming System

This proprietary Dimming System provides full-range dimming of LEDs for the TXRW, TXRA and TDR series. The system components connect with CAT5 cable. Up to 25 dimmer packs may be connected in series if the total length of all CAT5 cable does not exceed 165 feet from the wall dimmer to the last dimmer pack. CAT5 cables are included with units.



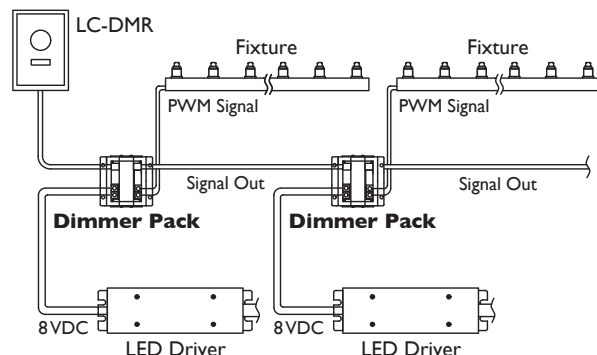
Part #: LC-DMR

The remote wall dimmer has a rotary dial and on/off switch. Power to the wall dimmer is provided from the LED Driver powering the first dimmer pack. The unit installs in a single-gang box.



Part #: LC-1CH-DP

Each dimmer pack receives a 8VDC input from an LED Driver and sends a PWM output to the fixture. Logic input and output is communicated through CAT5 cable. Max. Load: 40 watts @ 8VDC Dimensions: 1-1/2" x 3-1/2" x 4-1/16"





Lighting Controllers / TC-400BB TXRA/TDR Chase Series

Chasing Extrusions may be operated from our TC-400BB 4-Channel Controller. Each controller features a variety of patterns and speed control. These units can operate independently or be connected in series so all lights work in unison. The TC-400BB accepts a 12VAC input from Class 2 magnetic transformers. Only in the case of chasing are the LEDs capable of operating at this voltage. When operated at 12VAC for chasing, our 0.1 watt LEDs are rated as 0.15 watt, and our 0.2 watt LEDs are rated as 0.3 watt.

Dimensions: 1-1/2" x 4-3/4" x 6-1/8"

Capacity:

TokiLeds 0.15 Watt/12VAC LEDs: 400 pieces - Total 60 Watts

TokiLeds 0.30 Watt/12VAC LEDs : 200 pieces - Total 60 Watts



Class 2 Transformers

The TXRA and TDR series used in conjunction with our TC-400BB controller are operated from Class 2 transformers with inherent secondary circuit protection. Primary input is 120VAC/60 Hz. Transformers with multiple outputs are enclosed within a Rainproof Type 3R Enclosure.

Class 2 - 12 Volt						
Part Number	Outputs	D	H	W	Weight	
C2-60-12V	1 @ 60 Watt / 12 VAC	3.5"	3.75"	5.0"	3 lbs	
C2-120-12V	2 @ 60 Watt / 12 VAC	5.0"	7.0"	5.0"	11 lbs	
C2-180-12V	3 @ 60 Watt / 12 VAC	5.0"	7.0"	5.0"	12 lbs	
C2-240-12V	4 @ 60 Watt / 12 VAC	5.0"	7.0"	5.0"	12 lbs	
C2-300-12V	5 @ 60 Watt / 12 VAC	5.0"	7.0"	5.0"	12 lbs	

DMX Control For Chasing TXRA/TDR Series

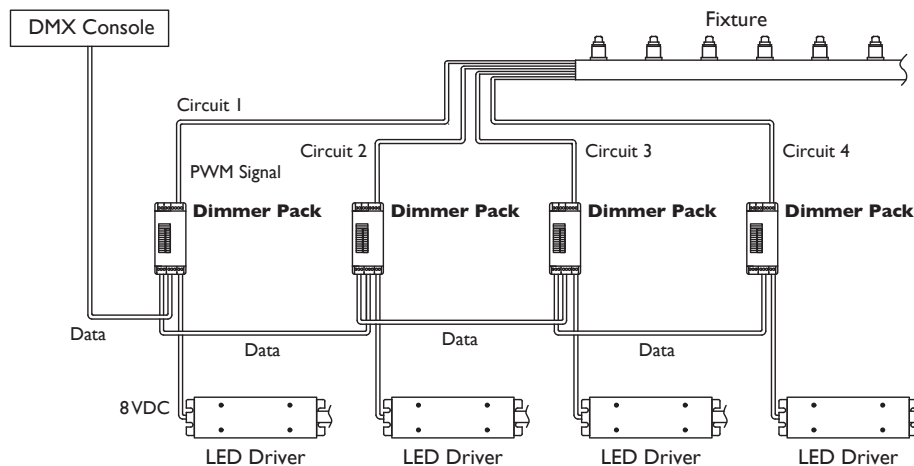
Multiple and addressable LC-1CH-MULTI Dimmer Packs can be used with our 8VDC LED Drivers to operate Linear fixtures from DMX controllers.



Part #: LC-1CH-MULTI

Technical Specifications:
 Max. Load: 40 Watts @ 8VDC
 Environmental Rating: Dry Location/IP20
 Dimensions: 3/4" x 1-3/4" x 3-1/2"
 Weight: 50g / 0.11 lbs
 Listing: ETL Listed/CE Certified
 Operating Temperature: 0~+50°C

In DMX mode, dimmer packs are addressable and may be used with any controller working on DMX protocol. Up to 36 dimmer packs may be connected in series. For applications exceeding 36 dimmer packs, an additional feed from the DMX dimmer is required. The additional feed(s) can be sent directly from the dimmer, or you may specify DMX Splitters. Consult factory on details of DMX Splitters.





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