

# LUXTRAN™ Remote Driver for Tunnel Applications

## RD700 SERIES

### PRODUCT FEATURES:

- » Remotely powers Kenall LTL and LTS Series LED luminaires via constant-current DC
- » High-efficiency (>90%) drivers with dedicated heat sinks and 20kV built-in surge suppression for long-life operation
- » Simplified servicing of drivers via patent-pending tool-less, quick-release mechanism
- » Stainless steel structural construction with marine-grade aluminum heat sinks
- » Suitable for placement most convenient to servicing
- » Wall or ceiling orientations; ADA compliant for wall orientations
- » 10 Year limited product warranty



### PROJECT INFORMATION

Job Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

Catalog Number \_\_\_\_\_

Approved by \_\_\_\_\_

### SPECIFICATIONS

**CHASSIS:** 16-gauge Type 304 or Type 316 stainless steel enclosure with one-piece, seam-welded construction; 2B finish; passivated post-welding. 14-gauge die-formed and welded mounting points; custom mounting detail to tunnel structure available.

**HEAT SINKS:** Type 413 marine-grade die-cast aluminum, coatings to withstand either 1,000 hour or 5,000 hour salt fog test per ASTM B117. Electrically insulated from stainless steel chassis.

**DOORFRAME:** 16-gauge Type 304 or Type 316 stainless steel doorframe with one-piece, seam-welded construction; 2B finish; passivated post-welding. Full length stainless steel hinge. Lockable rotary latches (lock by others) constructed of matching grade stainless steel.

**GASKETING:** One-piece extruded silicone with molded corners.

**LED DRIVERS:** Up to six (6) electronic LED drivers. 277-480 VAC, 50/60Hz single-phase input; <20% THD, >0.90 PF. Minimum 90% electrical efficiency. 1050mA or 1400mA Class I constant-current output—see Circuit Detail for information on drive current and load configuration requirements. Standard 0-10V dimming with 0-100% range. EMC compliant with FCC 47 CFR Part 15, Class B. Passes IEC 61000-4-4 EFT and IEC 61000-4-5 (Class 4) surge evaluation. Driver quick-release mechanism provides mechanical and electrical disconnection of individual drivers for servicing purposes.

**ELECTRICAL:** Screw connection terminal blocks for line-voltage inputs (up to three circuits—#2-14AWG), earth ground, low-voltage dimming inputs and DC load to luminaires. Compatible with relay/step-dimming or 0-10V-based control systems. Replaceable external surge suppressor per driver, rated to 20kA/kV per IEEE/ANSI C62.41 Cat A.

**INSTALLATION:** Wall or ceiling orientation, see Ordering Information for selection. Mounting hardware provided by others. Ambient temperature rating is -40°C to 40°C.

**WARRANTY:** Limited ten (10) year warranty.

**LISTINGS:** Enclosure is certified to UL Standards by Intertek Testing Laboratory for Wet Location. IP66 rating per IEC 60529. Rated to NEMA 4X. Luminaire is 3G vibration tested per ANSI C136.31.



### ORDERING INFORMATION (Ex: RD700-SM-6-1050-277-304-5KF)

Model	Mounting Design Detail	Driver Qty	Output Current	Input Voltage	Housing Material	Heat Sink Finish
<b>RD700</b>						
	<b>Mounting Design Detail</b>		<b>Output Current</b>		<b>Housing Material</b>	
	<b>SM</b> Standard Mounting Detail (as shown)		<b>1050</b> 1050mA Output		<b>304</b> Type 304 Stainless Steel	
	<b>CM</b> Custom/Project-Specific Mounting (consult factory)		<b>1400</b> 1400mA Output		<b>316</b> Type 316 Stainless Steel	
	<b>Driver Quantity</b>		<b>Input Voltage</b>		<b>Heat Sink Finish</b>	
	<b>4</b> Four		<b>277</b> 277 Volts		<b>1KF</b> 1,000 Hour Finish	
	<b>6</b> Six		<b>347</b> 347 Volts		<b>5KF</b> 5,000 Hour Finish	
			<b>480</b> 480 Volts			

### ELECTRICAL CHARACTERISTICS

Driver Qty	Product Compatibility	Driver Output (per Driver)		Max. Input Current (per Driver)			Max. Input Power per Driver	Max. Total Input Power
		Output Current	Output Voltage	277 VAC	347 VAC	480 VAC		
4	LTS	1050 mA	240-320 VDC	1.39 A	1.11 A	0.80 A	385 W	1540 W
6	LTS	1050 mA	240-320 VDC	1.39 A	1.11 A	0.80 A	385 W	2310 W
4	LTS/LTL	1400 mA	240-320 VDC	1.86 A	1.48 A	1.07 A	514 W	2056 W
6	LTS/LTL	1400 mA	240-320 VDC	1.86 A	1.48 A	1.07 A	514 W	3084 W



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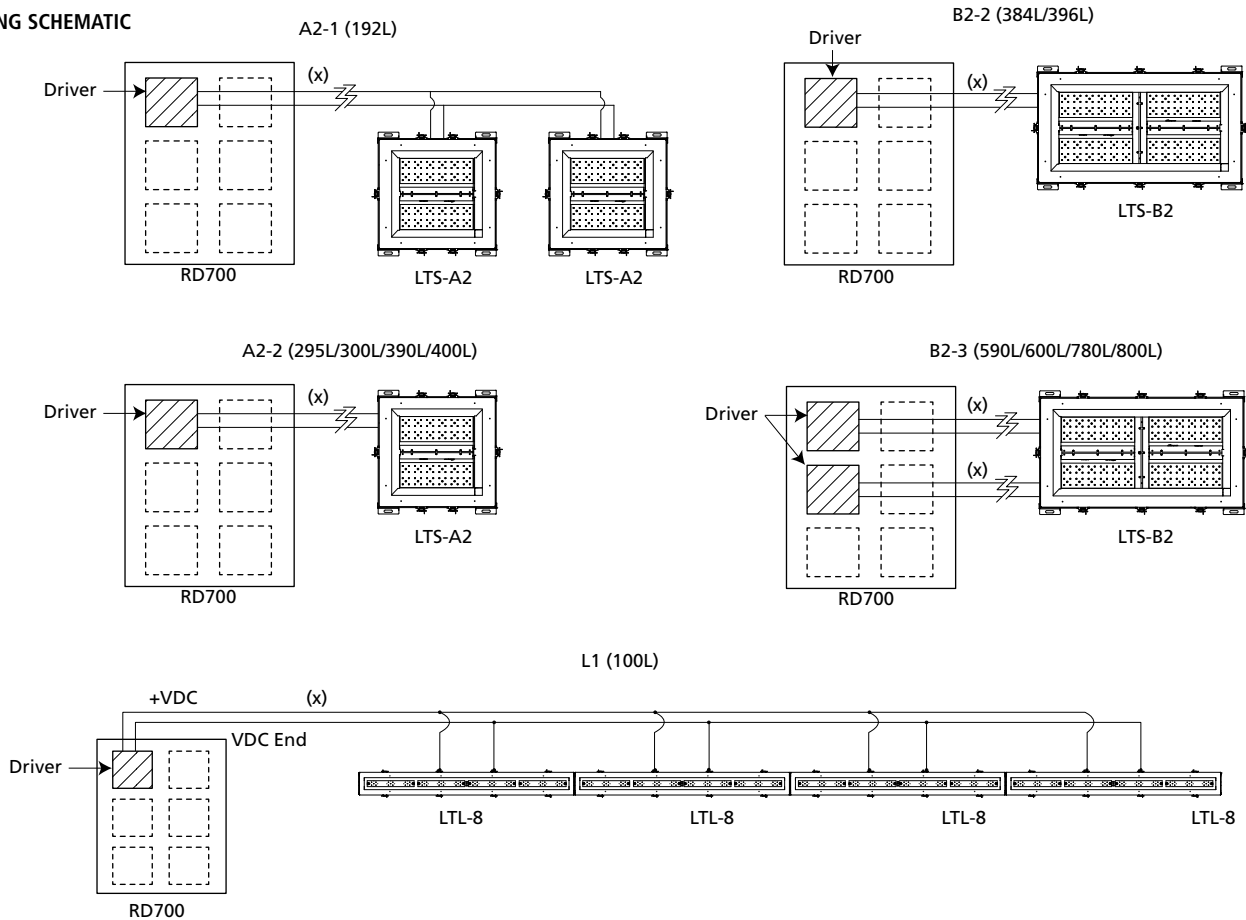
## RD700 SERIES

### CIRCUIT DETAIL

Product Series	Lamp Power	Size Configuration	Driver Wiring Diagram	(x) Required Driver Output Current
LTS	192L	A2	A2-1	1400 mA
	295L/300L	A2	A2-2	1050 mA
	390L/400L	A2	A2-2	1400 mA
	384L/396L	B2	B2-2	1400 mA
	590L/600L	B2	B2-3	1050 mA (2)
	780L/800L	B2	B2-3	1400 mA (2)
LTL	100L	8	L1	1400 mA

Note: Specify drive current based upon intended Lamp Power for the respective product series.

### WIRING SCHEMATIC



### WIRE RUN DISTANCE ALLOWANCE

Wire Type	Maximum Run to Load*
18 AWG	150 ft (45 m)
16 AWG	300 ft (90 m)
14 AWG	450 ft (137 m)

\*Assumes return path of equal distance



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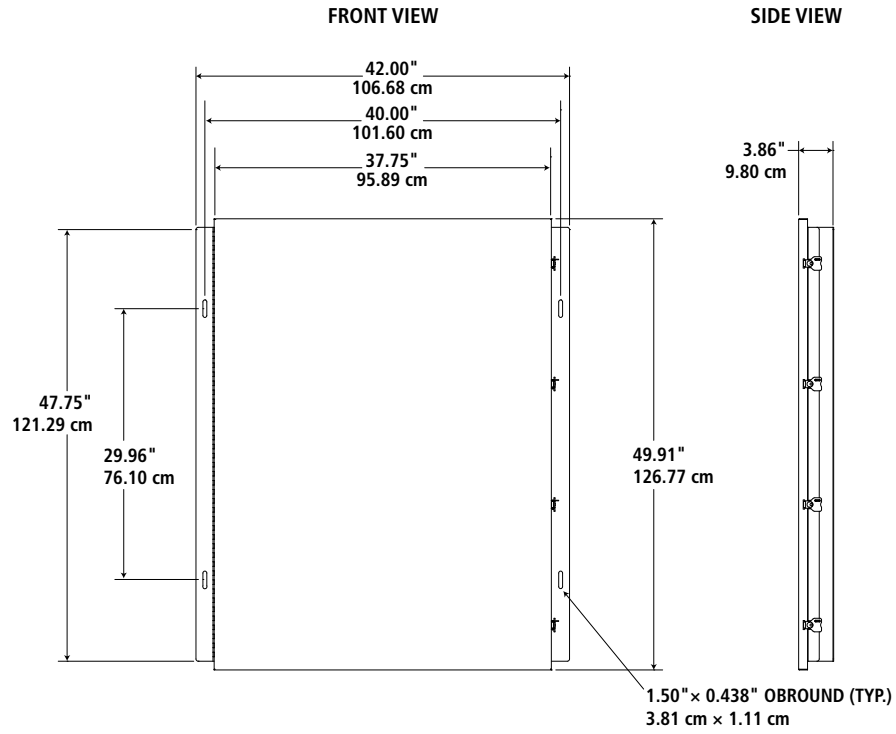
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**RD700 SERIES**

**DIMENSIONAL DATA**



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