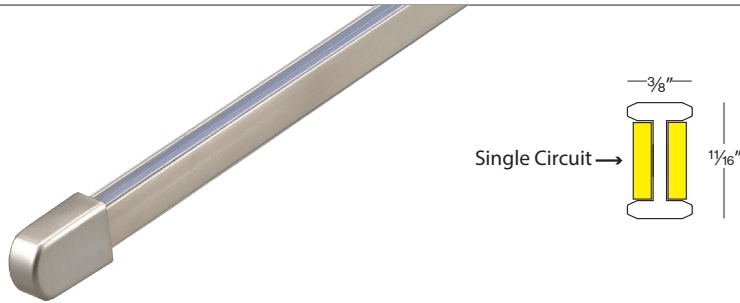


SOLORAIL™

Rail Systems

WAC LIGHTING

Responsible Lighting®



Fixture Type:

Catalog Number:

Project: _____

Location: _____

PRODUCT DESCRIPTION

WAC Lighting low voltage monorail system can be shaped and cut in the field to navigate curves for custom designs. The versatile Solorail™ accommodates hundreds of Quick Connect™ pendants and fixtures. Designed with the thinnest profile in the industry, n" tall and a" wide, Solorail™ is engineered for rigorous usage in commercial, hospitality and retail applications. Featuring electroplated solid copper bus bars and CNC precision fabricated components, with a maximum capacity of 25 amperes; or 300 watts at 12 volts and 600 watts at 24 volts.

FEATURES

- Low voltage versatile single circuit monorail system
- The rail is field cuttable and bendable by hand or with the use of a bending tool
- Two end caps included
- *Make sure to order one Quick Connect™ adapter per pendant or fixture ordered (LM-QADP)
- Can be suspended from ceiling with cable or rigid standoffs.
- An optional rail bending tool (LM-BM) is available for field bending when precise control and very smooth curves are desired.
- 5 year WAC Lighting product warranty.

SPECIFICATIONS

Materials: Solorail™ is composed of two 1.9mm thick copper bus wires with a 1.5mm thick polycarbonate core. Each rail also includes two matching polycarbonate end caps.

Electrical: 1 circuit, 12 volt or 24 volt.

Transformers: Surface mount electronic- well suited for small runs. Surface mount magnetic- high wattage capacity. Remote mount magnetic- larger capacities, minimize voltage drop if located within 10 feet of power feed.

Mounting: Determine the ceiling type. Select standoffs that match the height of the power feed component or surface mount transformer. Minimum three supports for 8 foot section, two for 4 foot section. Custom length suspensions are possible by using cables or suspension rods with rod couplers.

Standards: UL & CUL listed

ORDER NUMBER

Model	Length	Finish
LM	T4 4'	BN Brushed Nickel
	T8 8'	DB Dark Bronze

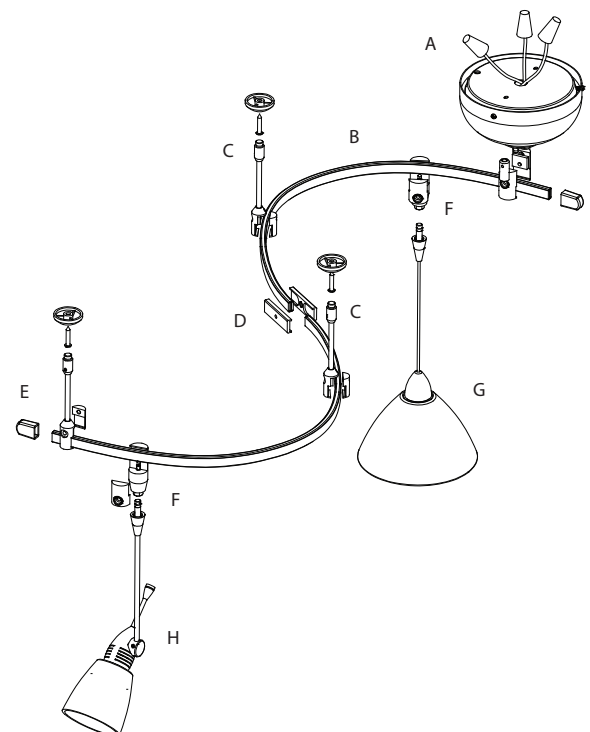
Includes two matching end caps.

- -

Example: LM-T4-BN

SAMPLE LAYOUT

A	LM-EN12-150E	Electronic transformer
B	LM-T8	Rail section
C	LM-X4	Standoff (matches Surface Mounted transformer height)
D	LM-I	"I" connector
E	LM-EC	End cap (2 supplied with every track)
F	LM-QADP	Quick Connect™ adapter
G	QP518	Quick Connect™ pendant
H	QF-182	Quick Connect™ fixture



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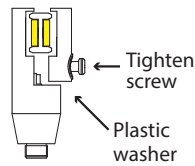
Rail Systems

WAC LIGHTING

Responsible Lighting®

Quick Connect™ Adapter for Solorail™

The threaded male adapter makes compatibility a snap. Simply insert the metal fitting into the system adapter, hand tighten the collar and you're done!



Model #	Finish	
LM-QADP	BN	<i>Brushed Nickel</i>
	DB	<i>Dark Bronze</i>

Example: **LM-QADP-BN**
Order one per Quick Connect™ fixture or pendant used.

Power Feeds (with Integrated Transformers)

75W LED Surface Mount Transformer



WAC Solorail™ LED transformer is the slimmest 75 watt surface mount canopy in the industry. At only 4 1/16" height and 4 1/2" in diameter, it has the capacity to power up nine 9W LED fixtures in one run while using 4 times less energy than common electronic transformers. Constructed of die-cast aluminum, this transformer mounts to a standard 4" ceiling junction box. Can be used with 3" standoffs and power extender.



LM-EN12-75E	BN	<i>Brushed Nickel</i>	Ø 4 1/2"
	DB	<i>Dark Bronze</i>	

12V, 75W. Use with 3" standoff (LM-X3).

Electronic Transformer



LM-EN12-150E	BN	<i>Brushed Nickel</i>	Ø 5"
	DB	<i>Dark Bronze</i>	

12V, 150W. Use with 4 1/2" (LM-X4) standoff.

Electronic Transformer



LM-EN12-250E	BN	<i>Brushed Nickel</i>	Ø 6"
	DB	<i>Dark Bronze</i>	

12V, 250W. Use with 4 1/2" (LM-X4) standoff.

Magnetic Transformer



LM-EN12-150M	BN	<i>Brushed Nickel</i>	Ø 7 5/8"
	DB	<i>Dark Bronze</i>	

12V 150W. Use with 5 3/4" (LM-X5) standoff.

Magnetic Transformer



LM-EN12-300M	12V	BN	<i>Brushed Nickel</i>	Ø 9"
		DB	<i>Dark Bronze</i>	

12V/24V 300W. Use with 5 3/4" (LM-X5) standoff.

Dual Tap Magnetic Transformer



LM-EN12-600M	BN	<i>Brushed Nickel</i>	Ø 10 1/2"
	DB	<i>Dark Bronze</i>	

12V, 2 x 300W. Use with 5 3/4" (LM-X5) standoff.

Sloped Ceiling Feed



LM-SCP48	BN	<i>Brushed Nickel</i>	48"
LM-SCP96	DB	<i>Dark Bronze</i>	96"

5A max. Use with surface mounted transformer. Use at any angle, easily shortened. Includes two LM-RI couplers.

Debuzzing Coil

All magnetic transformers emit a small amount of buzzing. Our magnetic surface-mounted transformers have a built-in debuzzing coil, which substantially reduces the buzzing. If the buzzing noise is still noticeable, a separate debuzzing coil may be wired in series on the 120 volt input line. Select the correct debuzzing coil based on the wattage of the transformer.



LM-DBC12-150	12V, 150W	Ø 2 3/8"
LM-DBC12/24-300	12V/24V, 300W	Ø 2 3/8"
LM-DBC12/24-600	12V/24V, 600W	Ø 4 3/8"

Voltage Drop Guidelines

	Run length
LM-EN12-150M	40'
LM-EN12-150E	20'
LM-EN12-250E	16'
LM-EN12-300M	40'
LM-EN12-600M	2 x 40'
LM-EN24-300M	50'
LM-EN24-600M	50'

Power Feeds (For use with Remote Transformers)

Single Power Feed



LM-CPC	BN	Brushed Nickel	Ø 4½"
	DB	Dark Bronze	

25A max. Use with 3" standoff (LM-X3).

Wall Power Feed



LM-WPC	BN	Brushed Nickel	Ø 4½"
	DB	Dark Bronze	

25A max. Feeds power to end of the rail.

Dual Power Feed



LM-DCPC	BN	Brushed Nickel	Ø 5½"
	DB	Dark Bronze	

Two 25A max power feeds. Order with dead end "I" connector (LM-IDEC). Use with 3" standoff (LM-X3).

Cable Power Feed



LM-PCS48	BN	Brushed Nickel	Ø 4½" × 48"
LM-PCS96	DB	Dark Bronze	Ø 4½" × 96"

25A max. Use on sloped ceilings with remote transformers. Use at any angle, easily shortened.

Wall Mount Power Feed Bracket



LM-OWP	BN	Brushed Nickel
	DB	Dark Bronze

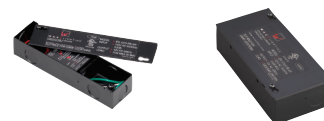
Can be mounted up to 24" from wall. Supported by aircraft cables. Use with remote transformers. Use two LM-OW (p.180) per 4 ft., three per 8 ft.

Remote Magnetic Transformers



Watt	12 Volts	Breakers	24 Volts	Breakers	L	W	H
300W	SRT-300M-12V	1	SRT-300M-24V	1	10¾"	4¼"	4½"
600W	SRT-600M-12V	2	SRT-600M-24V	1	11½"	6½"	5⅞"
					12½"	6⅞"	5⅞"

Remote Electronic Transformers



Watt	12 Volts
75W	EN-1275-RB-AR
100W	EN-12100-RB-AR

Voltage Drop Guidelines (based on 10 gauge wire)

Model #	Run length	Distance to power feed
SRT-300M-12V	40' max	10ft max
SRT-600M-12V	2 × 40' max	10ft max
SRT-300M-24V	40' max	10ft max
SRT-600M-24V	40' max	10ft max

On a full load voltage drop can cause a system to exceed the 25A rating. Guidelines assist with layouts only. When installing a 12V system, ensure that a min. of 12V is supplied at power feeds. 10AWG wire should be used with remote transformers. Multi-tap output terminals (remote magnetic transformers) help make up for voltage drop before the power feed. Use a multimeter to verify no less than 11V is found at the end of the run and no more 25A is being drawn from the power feed.

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Rail Suspension	Model #	Finish	Dimensions	Description
Standard Ceiling Standoff 	LM-X3 LM-X4 LM-X5	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	3" 4½" 5¾"	<i>Supports rail for flat ceilings and surfaces.</i>
T-Bar Ceiling Standoff 	LM-TB3 LM-TB4 LM-TB5	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	3" 4½" 5¾"	<i>Conceals a T-Bar clip under the canopy for standard 1" T-Bar ceilings.</i>
Sloped Ceiling Standoff 	LM-XS5	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	5¾"	<i>Supports rail for sloped ceiling. Accommodates angles up to 45°.</i>
Aircraft Suspension Cable 	LM-CS48 LM-CS96	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	48" 96"	<i>Supports monorail for flat or sloped ceilings.</i>
Extension Rod 	LM-R12 LM-R24 LM-R36 LM-R48	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	12" 24" 36" 48"	<i>Use with standoffs and power feeds. Use two per circuit with rod couplers to extend power feeds. Field cut to size and join with rod couplers.</i>
Rod Coupler 	LM-RI	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	Ø 3/8" x d 7/8"	<i>Use two per power feed, four per dual power feed, one additional coupler per rod needed when joining two rods in excess of 48".</i>
Wall Mount Support Bracket 	LM-OW	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>		<i>Wall extenders allow rail to be mounted up to 24" from wall.</i>

Example: **LM-R12-BN**

Rail Connectors	Model #	Finish	Dimensions	Description
Jumper Set 	LM-JS	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	6"	<i>Used to join two rails together with electrical continuity.</i>
"I" Dead-End Connector 	LM-IDEC	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	5/8" x 2"	<i>Connects two sections of rail with no electrical continuity.</i>
"I" Connector 	LM-I	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	5/8" x 2"	<i>Connects two sections of rail with electrical continuity.</i>
"X" Dead-End Connector 	LM-XDEC	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	5/8" x 2" x 2"	<i>Joins four monorails in an "X" without electrical continuity.</i>
"L" Connector 	LM-L	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	5/8" x 1½" x 1½"	<i>90° monorail connection with electrical continuity</i>
Ceiling To Wall Connector 	LM-CW	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	5/8" x 1¾" x 1¾"	<i>90° monorail connection in a vertical plane with electrical continuity</i>
Variable Angle Connector 	LM-VA	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	Ø 1" x 1¼" x 3½"	<i>Allows an angle adjustment up to 110° with electrical continuity at the connection.</i>
"T" Connector 	LM-T	BN <i>Brushed Nickel</i> DB <i>Dark Bronze</i>	5/8" x 1½" x 1½"	<i>Connects two sections of a monorail in a "T" with electrical continuity</i>

Example: **LM-XDEC-BN**

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