Tetra® miniMAX
LED Lighting System

Project Name _____

Date _____ Type _____

Notes _____

Wet or dry— our **brightest** solution for **small** channel letters

MAXIMIZED OUTPUT. MINIMIZED EXPENSE.

Tetra® miniMAX—the remarkable LED system designed for small channel letters as shallow as 1.5 inches in depth delivers incredibly uniform light, installs easily and operates efficiently. The **Tetra® miniMAX** is now IP66 and UL wet rated which makes it more robust and reliable even under wet weather. Working closely with sign builders and owners, we've refined our design to improve performance while decreasing the amount of product required, further reducing installation and material costs.

POWERFUL OPTILENS™

Tetra® miniMAX features **OptiLens™** a patented technology that captures otherwise wasted light and redirects it towards the illuminated surface with impressive uniformity. It optimizes each LED—which enables wider stroke spacing—reducing the amount of material needed per sign while helping protect the LED against moisture, humidity, damage and corrosion.

TETRA® MINIMAX WET LOCATION RATED

Now there's a miniMAX solution for **wet locations** where saturation with water or other liquids is likely. Integrating all the same performance features of miniMAX, the miniMax wet rated is IP66 and UL wet rated. It contains an added over molded design that protects against water ingress, dust and damage, and a special module top surface to eliminate water retention —no separate enclosure is required.

NEW!

GE current
a Daintree company

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CAN CUT PRODUCT REQUIRED ALMOST IN HALF

Many LED systems use about 13 LED modules in 2 rows to fill a capital "T" channel letter that's 2 feet high.

Use one row, not two. **Tetra® miniMAX** stretches stroke spacing to an impressive 7 inches in a 3-inch depth channel while maintaining impressive light uniformity on the sign face. It protects your customers' brand image while reducing product costs and saving you installation time.

TOTAL CURRENT RELIABILITY

To ensure every **Tetra® miniMAX** installation will operate brilliantly for years, we perform the most extensive, stringent testing in the industry. Rather than relying solely on test data from LED suppliers, we test the LED, water and dust ingress protection, sub-system and complete system at our in-house and independent laboratories around the world. Validation of our designs, components, products and processes include high-temperature, high-humidity and accelerated life testing.

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Spec Table

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Components

SKU	Description	Package Quantity
GEMM71-W1	Tetra® miniMAX 7100K	100 ft. (30.48 m)/box (250 modules)
GEMM50-W1	Tetra® miniMAX 5000K	100 ft. (30.48 m)/box (250 modules)
GEMM41-W1	Tetra® miniMAX 4100K	100 ft. (30.48 m)/box (250 modules)
GEMM32-W1	Tetra® miniMAX 3200K	100 ft. (30.48 m)/box (250 modules)
GEMMRD-W1	Tetra® miniMAX Red	100 ft. (30.48 m)/box (250 modules)
GEMMBL-W1	Tetra® miniMAX Blue	100 ft. (30.48 m /box (250 modules)
GEMMGL-W1	Tetra® miniMAX Green	100 ft. (30.48 m)/box (250 modules)
GEMMPO-W1	Tetra® miniMAX Orange	100 ft (30.48 m)/box (250 modules)
9409	18 AWG Supply Wire (0.82 mm^2)	500 ft/spool (152.4 m)
191600041	22-14 AWG Twist-On Wire Connectors (0.33-2.08 mm^2)	500/PK
192160004	18-14 AWG In-line Connectors (IDC) (0.82-2.08 mm^2)	500/PK

Technical Specifications

Specification Item	Wavelength	Typical Brightness (lumens/ module)	Typical Brightness (lumens/ft.)	Energy Consumption (Strip/ Module)	Energy Consumption (System/ Module)	Power Supply Loading	Viewing Angle
Tetra® miniMAX White	7100K, 5000K	36	90	0.32	0.38	68ft (170 modules)	150
Tetra® miniMAX Warm White	4100K, 3200K	34, 30	85, 75	0.32	0.38	68ft (170 modules)	150
Tetra® miniMAX Red	625nm	11	27	0.39	0.47	60ft. (150 modules)	150
Tetra® miniMAX Blue	467nm	8	19	0.39	0.47	60ft. (150 modules)	150
Tetra® miniMAX Green	530nm	24	60	0.39	0.47	60ft. (150 modules)	150
Tetra® miniMAX Orange	606nm	19	48	0.48	0.59	60ft. (150 modules)	150

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Technical Specifications

Specification Item	Specification		
LEDs/Module	3		
Module/ft.	2.5		
Cutting Resolution	Cut on wire between every module		
Power Supply	GEPS12-25U-NA Input: 90-264VAC; Output: 12VDC GEPS12-60U-NA Input: 108-305VAC; Output: 12VDC GEPS12-60U-GL Input: 108-305VAC; Output: 12VDC GEPS12W-60 Input: 90-264VAC; Output: 12VDC GEPS12D-60U Input: 108-305VAC; Output: 12VDC GEPS12-180U-NA Input: 90-305VAC; Output: 12VDC		
Maximum Supply Wire Limits	**60W, 80W, 100W, 180W**	**25W**	**Supply Wire Gauge**
	20 ft. (6.1 m)	120 ft. (36.6 m)	18 AWG (0.82 mm^2) supply wire - 9409
	25 ft. (7.6 m)		16 AWG (1.31 mm^2) supply wire
	35 ft. (10.6 m)		14 AWG (2.08 mm^2) supply wire
	40 ft. (12.1 m)		12 AWG (3.31 mm^2) supply wire
	Wiring to be installed in accordance with Article 725 of the National Electric Code (NEC).		
Operating Environment	-40°C to +60°C		
Module Dimensions (h x l x w)	0.37 x 0.72 x 2.27 in		
Sign Dimensions	For best results, recommended sign depth is 1.5 inches (38mm) or greater		
Warranty	Current offers a limited system warranty of up to five (5) years		
LED Module Certifications	UL Recognized #E219167, UL Classified #E229508, CE, RCM, RoHS,IP66 wet location rated		

SIGN099 (Rev 02/10/21)