

Tetra® miniMAX MS

LED Lighting System

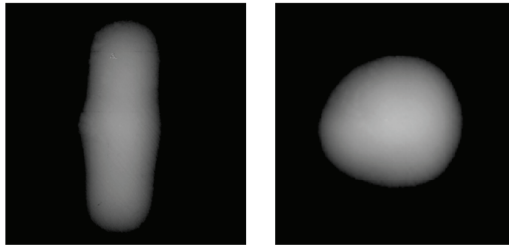


Project Name _____
 Date _____ Type _____
 Notes _____

New **Tetra® miniMAX MS** (Micro System) was created for channel letters as shallow as 1.5 inch deep and as narrow as 1/2-inch wide. Now even the smallest letters benefit from tremendous efficiency advancements in GE LED technology. Available colors: white, red, green, blue.

EVEN **NARROWER** LIGHT PLACEMENT THAN REGULAR MINIMAX

Compared to regular miniMAX, new miniMAX MS has a more narrowly focused optic performance that's perfect for narrow channel letters. Precise engineering creates an asymmetrical light output - directing light efficiently to the sign face—for superior results.



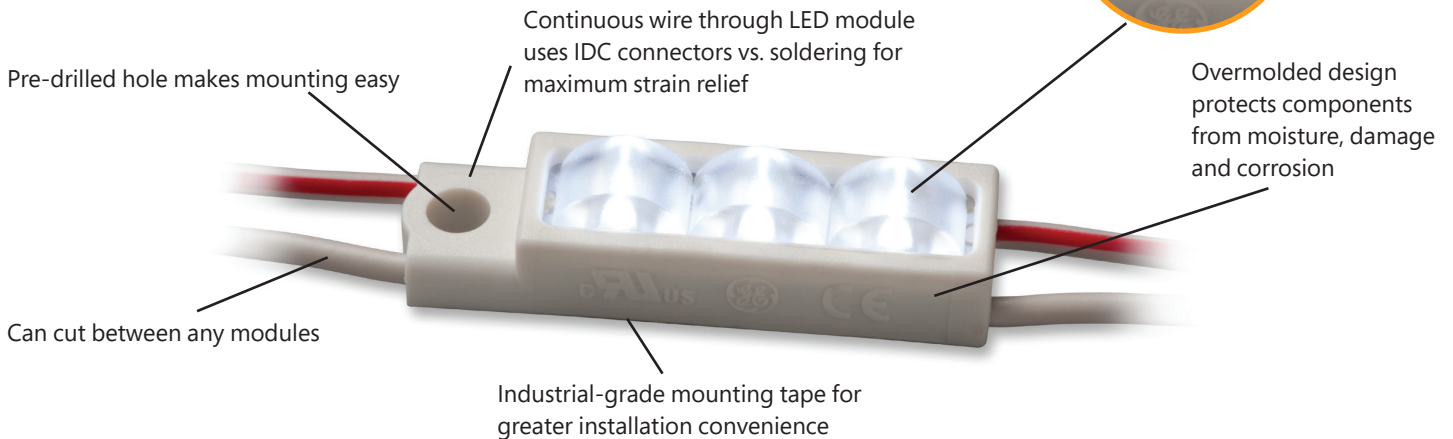
miniMAX MS GEMS71-1 vs. miniMAX GEMM71-2



23%
smaller than
miniMAX

INCREDIBLE **OPTILENS™**

Incredible OptiLens™ maximizes LED performance by capturing otherwise wasted light and redirecting it towards the illuminated surface to create an exceptionally uniform channel letter. It optimizes each LED to allow for narrow stroke spacing, which helps reduce the amount of material needed per letter. OptiLens also helps protect the LED against moisture, humidity, damage and corrosion—for reliable performance that enhances brand image via better looking signs.



Tetra[®] miniMAX MS

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Spec Table

Project Name _____

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Components

SKU	Description	Package Quantity
GEMS71-1	Tetra [®] miniMAX MS 7100K	100 ft. (30.48 m)/box (250 modules)
GEMS50-1	Tetra [®] miniMAX MS 5000K	100 ft. (30.48 m)/box (250 modules)
GEMS41-1	Tetra [®] miniMAX MS 4100K	100 ft. (30.48 m)/box (250 modules)
GEMS32-1	Tetra [®] miniMAX MS 3200K	100 ft. (30.48 m)/box (250 modules)
GEMSRD-1	Tetra [®] miniMAX MS Red	100 ft. (30.48 m)/box (250 modules)
GEMSBL-1	Tetra [®] miniMAX MS Blue	100 ft. (30.48 m)/box (250 modules)
GEMSGL-1	Tetra [®] miniMAX MS Green	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	LEDs/ Module	Typical Brightness (lumens/module)	Typical Brightness (lumens/ft.)	Energy Consumption (Strip/ Module)	Energy Consumption (System/ Module)	Power Supply Loading
Tetra [®] miniMAX MS	7100K, 5000K 4100K, 3200K	3	36, 36 28, 28	90, 90 70,70	0.384	0.450	150 modules/60W PS
Tetra [®] miniMAX MS Red	625nm	3	13	33	0.384	0.452	150 modules/60W PS
Tetra [®] miniMAX MS Green	467nm	3	22	56	0.384	0.452	150 modules/60W PS
Tetra [®] miniMAX MS Blue	530nm	3	8	19	0.312	0.367	150 modules/60W PS

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Technical Specifications

Specification Item	Specification		
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
	15 ft. (6.1 m)	120 ft. (36.6 m)	18 AWG (0.82 mm ²) supply wire—9409
	23 ft. (7.6 m)		16 AWG (1.31 mm ²) supply wire
	38 ft. (10.6 m)		14 AWG (2.08 mm ²) supply wire
	65 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)	Tetra [®] miniMAX MS: 0.236 x 1.374 x 0.378 in. (6.0 x 34.9 x 9.6 mm)		
Sign Dimensions	For best results, recommended sign depth is 1.5 inches (38mm) or greater	For best results, recommended letter stroke is 0.5 inches (13mm) to 3 inches (38mm)	
Limited Warranty	Current offers a limited system warranty of up to five (5) years		
System Certifications	UL Recognized #E219167, UL Classified #E229508, CE, WEEE. IP66 rated: separate enclosure required for outdoor use, dry, damp or wet location rated.		