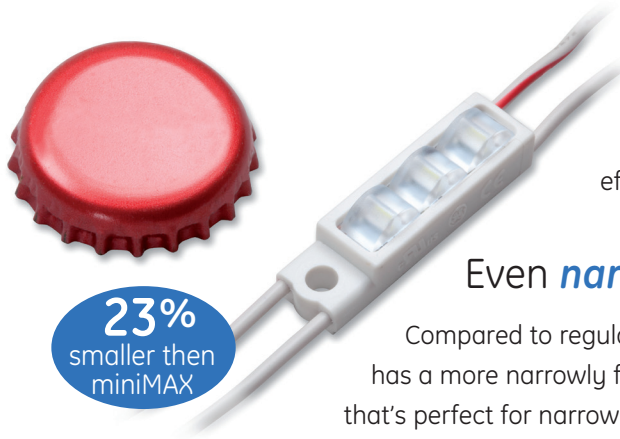
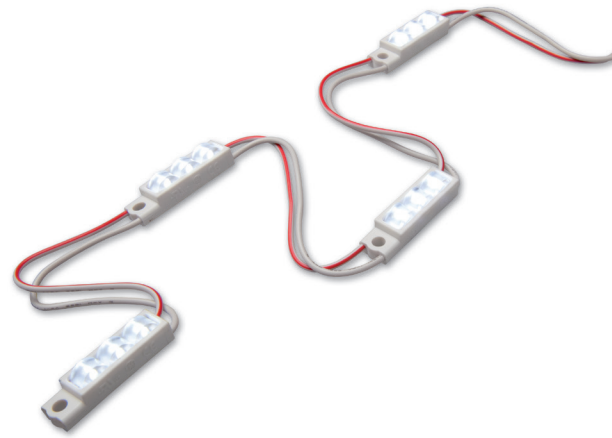


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# Tetra® miniMAX MS

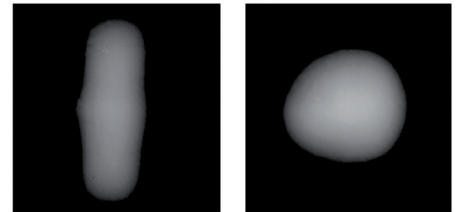
Huge performance in small channel letters.



New Tetra® **miniMAX MS** (Micro System) was created for channel letters as shallow as 1.5 inch (38mm) deep and as narrow as ½-inch (13mm) wide. Now even the smallest letters benefit from tremendous efficiency advancements in GE LED technology.

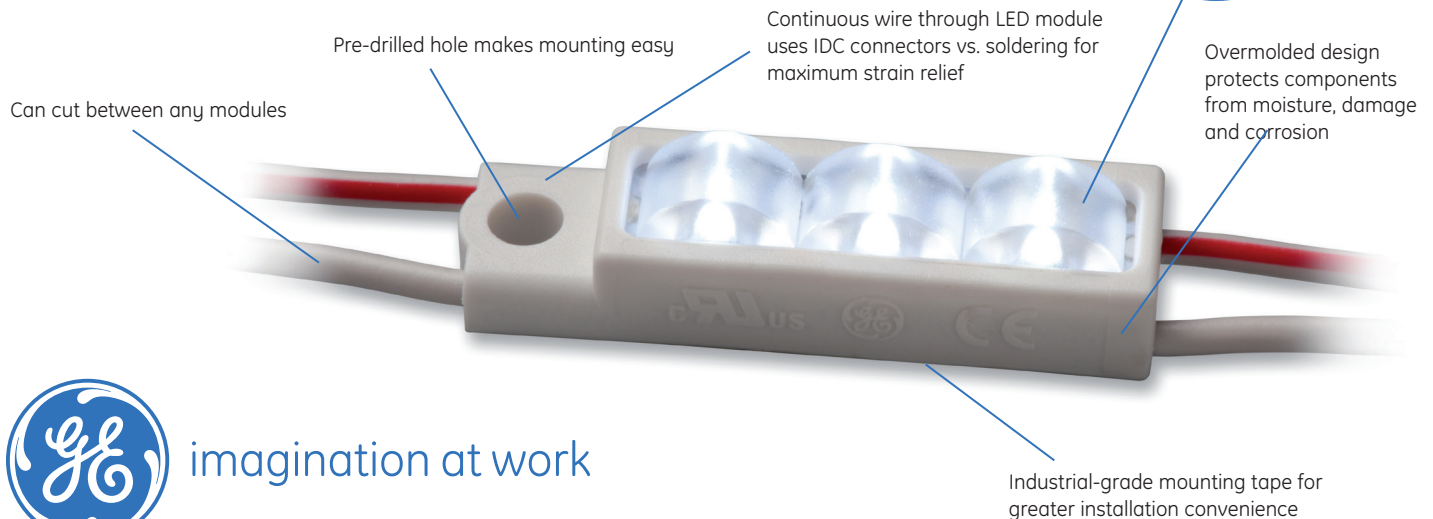
Even **narrower** light placement than regular miniMAX

Compared to regular miniMAX, new miniMAX MS has a more narrowly focused optic performance that's perfect for narrow channel letters. Precise engineering virtually eliminates wasted light inside the letter—directing it efficiently to the sign face—for superior results.



miniMAX MS GEMS71-1 vs. miniMAX GEMM71-1

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.



imagination at work

## Components

Product Code	SKU	Description	EEC	Energy Consumption (kWh/1000h)	Package Quantity
GEMS71-1	14397	Tetra® minimax MS 7100K	A++	0.422	100 ft. (30.48 m) /box (250 modules)
GEMS50-1	14398	Tetra® minimax MS 5000K	A++	0.422	100 ft. (30.48 m) /box (250 modules)
GEMS41-1	14399	Tetra® minimax MS 4100K			100 ft. (30.48 m) /box (250 modules)
GEMS32-1	14407	Tetra® minimax MS 3200K			100 ft. (30.48 m) /box (250 modules)
9409	68347	18 AWG Supply Wire (0.82 mm <sup>2</sup> )			500 ft./spool (152.4 m)
191600041	98509	22-14 AWG Twist-On Wire Connectors (0.33 – 2.08 mm <sup>2</sup> )			500/PK
192160004	98524	18-14 AWG In-line Connectors (IDC) (0.82 – 2.08 mm <sup>2</sup> )			500/PK

## Technical Specifications

Specification Item	Wavelength	LEDs/ Module	Typical Brightness (lumens/module)	Typical Brightness (lumens/metre)	Energy Consumption (Strip/Module)	Energy Consumption (System/Module)	Power Supply Loading	Viewing Angle
Tetra® miniMAX MS	7100K, 5000K 4100K, 3200K	3	36, 36 28, 28	297 231	0.384	0.450	150 Modules/60W PS	140°

Specification Item	Specification		
Cutting Resolution	Cut on wire between every module		
Power Supply	GEPS12-20 Input: 90-264VAC; Output: 12VDC GEPS12-60-GL Input: 108-305VAC; Output: 12VDC GEPS12W-60 Input: 90-264VAC; Output: 12VDC GEPS12D-60U Input: 108-305VAC; Output: 12VDC GEPS12-180U Input: 90-305VAC; Output: 12VDC		
Maximum Supply Wire Limits	<b>60W, 80W, 100W, 180W</b>	<b>20W</b>	<b>Supply Wire Gauge</b>
	15 ft. (6.1 m)	120 ft. (36.6 m)	18 AWG (0.82 mm²) supply wire—9409
	23 ft. (7.6 m)		16 AWG (1.31 mm²) supply wire
	38 ft. (10.6 m)		14 AWG (2.08 mm²) supply wire
	65 ft. (12.1 m)		12 AWG (3.31 mm²) 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)	miniMAX MS: 0.352 x 1.374 x 0.378 in. (8.9 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 (76mm)"
Limited Warranty	GE 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.		



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Tetra miniMAX MS Datasheet – February 2014