


# Tetra® MS

CHANNEL LETTER LIGHTING SYSTEMS

## With powerful OptiLens™ X and groundbreaking energy efficiency

**Tetra®MS** — the remarkable 24V LED system designed for small channel letters as shallow as 1.5 inches in depth delivers incredibly uniform light, installs easily and operates efficiently. Tetra® MS is IP66 and UL wet rated which makes it more robust and reliable even under wet weather.

## Powerful OptiLens™ X

**Tetra® MS** features OptiLens™ X, our patented technology that allows for a true 165° x 140° viewing angle. This exclusive technology redirects otherwise wasted light to the sign face, making sure your signs shine.

## Class-leading loading

Now load up to 90.5 feet (27.6 m) or 362 modules of 24V **Tetra® MS** per 100W power supply using our new and improved GLX2 power supplies.

## Improved stroke spacing

24V **Tetra® MS** stroke spacing has improved, thanks to the new OptiLens™ X wide beam angle. In addition, its new silicone flow channels have increased bonding strength by 10-20%



## Tetra®MS Features

- Wide 165° beam angle
- Improved luminous intensity
- Efficacy: 119 lm/W
- 24 Volt DC, Class 2 (UL), Class III (IEC)
- UL Wet Rated & IP66
- 10-year limited warranty

## Tetra®MS Spacing

| Can Depth | Coverage | Multiple Strings |
|---|---|---|
| 1″ (25mm) | 2″ (51mm) | 1.5″ (38mm)* |
| 1.5″ (38mm) | 4″ (102mm) | 2.5″ (64mm) |
| 2″ (51mm) | 6″ (152mm) | 5″ (127mm) |
| 3″ (76mm) | 7″ (178mm) | 5″ (127mm) |

*Face material must be at least 3/16″ (5mm) thick

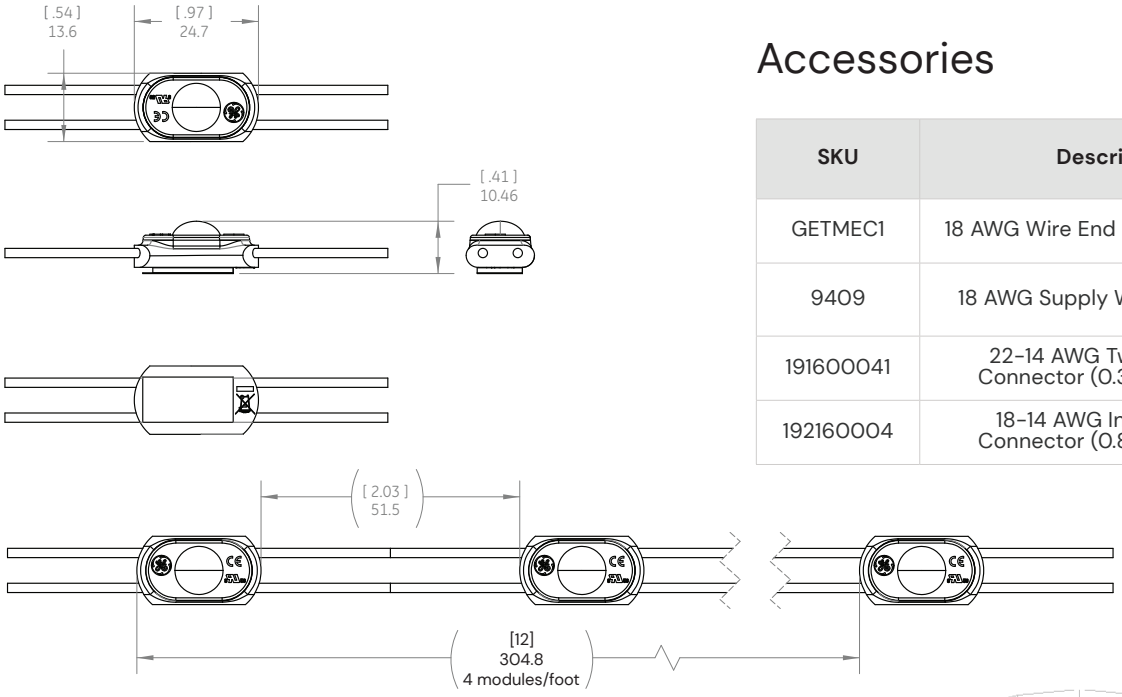
## Total Reliability

To ensure every **Tetra® MS** installation will operate brilliantly for years, we perform the most extensive, stringent testing in the industry. 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.



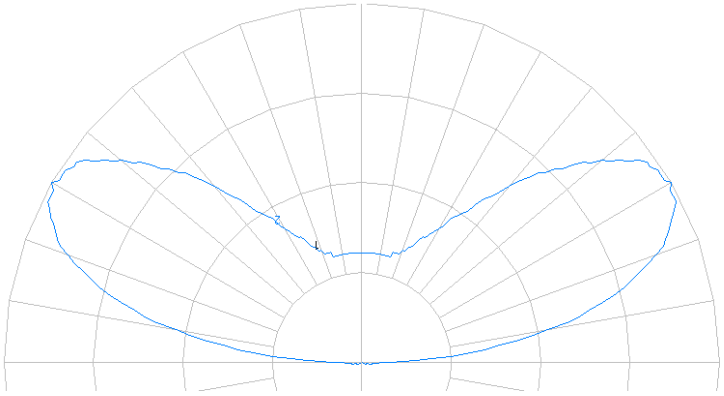

## Mechanical Outline & Viewing Angle

Dimensions in (inches). Metric equivalent mm




## Accessories

| SKU | Description | Package quantity |
|---|---|---|
| GETMEC1 | 18 AWG Wire End Caps (0.82 mm²) | 100/bag |
| 9409 | 18 AWG Supply Wire (0.82 mm²) | 500 ft (152.40m)/ spool |
| 191600041 | 22-14 AWG Twist-on Wire Connector (0.33-2.08 mm²) | 500/bag |
| 192160004 | 18-14 AWG In-line Splice Connector (0.82-2.08 mm²) | 500/bag |



# Components

| SKU | Model | Details | Color | Pkg. Quantity | Modules per strip |
|---|---|---|---|---|---|
| 93118733G | GEMS2471-W1 | Tetra® MS 24V 7100K | White | 5 Strips/Box | 80 modules per strip (20 ft/strip) |
| 93118734G | GEMS2465-W1 | Tetra®MS 24V 6500K | Warm White | 5 Strips/Box | 80 modules per strip (20 ft/strip) |
| 93118736G | GEMS2450-W1 | Tetra® MS 24V 5000K | Warm White | 5 Strips/Box | 80 modules per strip (20 ft/strip) |
| 93118737G | GEMS2441-W1 | Tetra® MS 24V 4100K | Warm White | 5 Strips/Box | 80 modules per strip (20 ft/strip) |
| 93118738G | GEMS2432-W1 | Tetra® MS 24V 3200K | Warm White | 5 Strips/Box | 80 modules per strip (20 ft/strip) |

# Technical Specifications

| Model | Wavelength/ CCT | Typical Brightness* Lumens/ module | Typical Brightness* Lumens/Ft (Lumens/m) | Energy Consumption Rated Wattage | Energy Consumption* System Wattage | 100W GLX Power Supply Loading | 100W GLX2/ TT Power Supply Loading | Viewing Angle |
|---|---|---|---|---|---|---|---|---|
| GEMS2471-W1 | 7100K | 27.5 | 110 (361) | 0.24W/module | 0.28W/module | 85 ft (25.9 m) | 90.5 ft (27.6 m) | 165° |
| GEMS2465-W1 | 6500K | 27.5 | 110 (361) | 0.24W/module | 0.28W/module | 85 ft (25.9 m) | 90.5 ft (27.6 m) | 165° |
| GEMS2450-W1 | 5000K | 27.5 | 110 (361) | 0.24W/module | 0.28W/module | 85 ft (25.9 m) | 90.5 ft (27.6 m) | 165° |
| GEMS2441-W1 | 4100K | 27.5 | 110 (361) | 0.24W/module | 0.28W/module | 85 ft (25.9 m) | 90.5 ft (27.6 m) | 165° |
| GEMS2432-W1 | 3200K | 25 | 100 (328) | 0.24W/module | 0.28W/module | 85 ft (25.9 m) | 90.5 ft (27.6 m) | 165° |

*Typical performance +/-10%

# Additional Specifications

| | | | | | |
|---|---|---|---|---|---|
| **Dimmable** | Yes (with dimmable power supply) | | | | |
| **LEDs/Module** | 1 | | | | |
| **LEDs/ft (LEDs/m)** | 4 (13) | | | | |
| **Modules/ ft. (Modules/m)** | 4 (13) | | | | |
| **Cutting Resolution** | Cut on wire between every module | | | | |
| **Power Supply** | Tetra 24V power supplies | | | | |
| **Maximum Supply Wire Limits** | | **18 AWG/0.82 mm² Supply Wire** | **16 AWG/1.31 mm² Supply Wire** | **14 AWG/2.08 mm² Supply Wire** | **12 AWG/3.31 mm² Supply Wire** |
| | 25W Power Supply | 120 ft./36.6 m | / | / | / |
| | 100W Power Supply | 20 ft./6.1 m | 25 ft./7.6 m | 35 ft./10.6 m | 40 ft./12.1 m |
| | 200W Power Supply | 20 ft./6.1 m | 25 ft./7.6 m | 35 ft./10.6 m | 40 ft./12.1 m |
| | 300W Power Supply | 20 ft./6.1 m | 25 ft./7.6 m | 35 ft./10.6 m | 40 ft./12.1 m |
| **Operating Environment** | -40 °C to +60 °C (-40 °F to +140 °F) | | | | |
| **Module Dimensions (h x l x w)** | 0.41" x 0.97" x 0.54" (10.46 mm x 24.7 mm x 13.6 mm) | | | | |
| **Warranty** | Limited system warranty of up to ten (10) years | | | | |
| **System Certifications** | UL Recognized (C-US) #E219167, UL Classified (C-US) #E229508, CE, UKCA, ROHS • IP66 rated: for dry, damp or wet location. | | | | |



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