# FXM

## FXM | PIXEL MESH SERIES

The FXM Pixel Mesh is a high-performance, flexible LED mesh system for dynamic media displays, architectural accents, and entertainment environments.

Compatible with SPI, ArtNet, sACN, X-Stream, and X-Data control protocols, it offers smooth playback and precise pixel-level control for complex animations and effects.

Its lightweight, transparent PC housing is both durable and discreet, with an IP67 rating for reliable performance in indoor and outdoor installations.

XSTRFAM | 5 YEAR WARRANTY | RGB | IP67
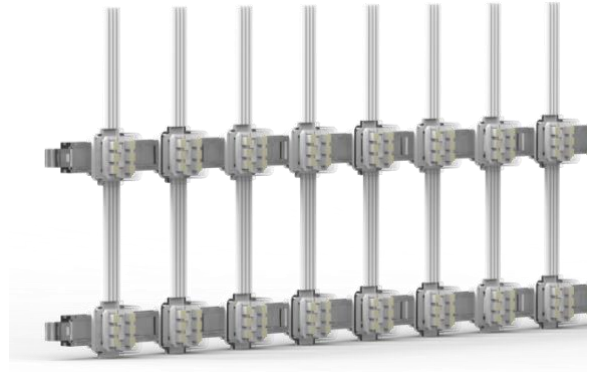


## PART NUMBER CONFIGURATOR

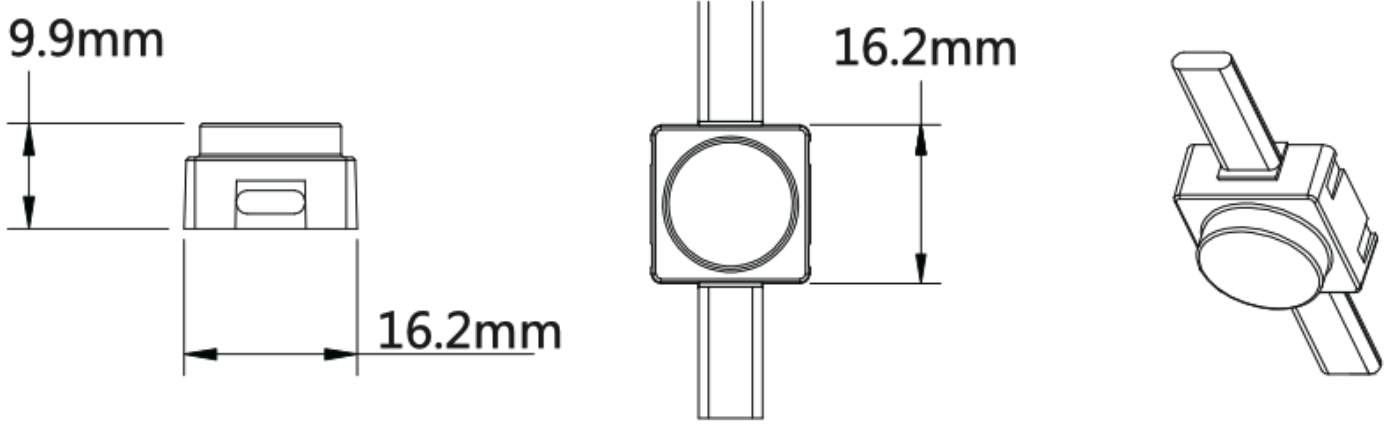| Prefix | Model | LED Colour | Control | Beam Angle | Voltage | Lens | Housing Colour |
|---|---|---|---|---|---|---|---|
| FXM | 41 – P41.6<br>50 – P50<br>55 – P55<br>62 – P62.5<br>71 – P71.43<br>80 – P80<br>100 – P100<br>150 – P150<br>CP100 – CP100 | RGB | D – DMX<br>S – SPI<br>PWM<br>X – X-Stream | 120 – 120º | 24 – 24V DC | BS – Transparent Ball Shape<br>MW – Milky White Ball Shape<br>NC – No Cover | T – Transparent<br>B – Black<br>W – White |
| **EXAMPLE:** FXM – 55 – RGBW – X – 120 – 24 – T – MW – B | | | | | | | |

## SPECIFICATIONS

| | | |
|---|---|---|
| **Electrical** | Power Consumption (W/m²) | 576W(P41) / 400W(P50) / 325W(P55) / 256W(P62) / 196W(P71) / 128W(P80) / 100W(P100) / 150W(P150) / 98W(CP100) |
| | Operating Voltage | 24V DC |
| | Operating Temperature | -30ºC TO 60ºC - (-22ºF TO 140ºF) |
| | Storage Temperature | -40ºC TO 90ºC - (-40ºF TO 194ºF) |
| **Physical** | Dimensions | 16.2mm (L) x 16.2mm (W) x 9.9mm (H) |
| | Housing | Transparent / Black / White, PC |
| | Lens | Transparent Ball Shape / Milky White Ball Shape / No Cover |
| | Weight (kg/m²) | 4kgs(P41) / 3kgs(P50) / 2.5kgs(P55) / 2kgs(P62) / 2kgs(P71) / 2kgs(P80) / 2kgs(P100) / 2kgsP150) / 2kgs(CP100) |
| | Unit Weight | 8g (1 node); 400g (50 node strand) |
| | IP Rating | IP67 |
| | Operating Humidity | 10% – 90% |
| | Fire Protection | UL94-V0 |
| | Thickness (mm)* | ≤10 |
| | Source Life | 80.000hours (operation temperature <50ºC) |
| | Pitch Range | S1 Mesh: P40/50/60/80/100 (mm), S16 Pixel: 40-5000 (mm) Pitch |
| | Colour Grey Scale | 12bit |
| **Optical** | Beam Angle | Vertical 120º / Horizontal 120º |
| | Colour Range | RGB |
| | LED Type | RGB 3535 |
| | LED | 1SMD per pixel |
| | LED Source | 1, 2, 3, 4, 6 SMD |
| | Colour Resolution | 16 |
| | Brightness (CD/m²) | ≤5500(P41) / ≤5000(P50) / ≤4000 (P55) / ≤3000(P62) / ≤2300(P71) / ≤1500(P80) / ≤1050(P100) / ≤450P150) / ≤2880CP100) |
| | Pixel Pitch | 41.6 / 50 / 55 / 62.5 / 71.43 / 80 / 100 / 150 / 100 |
| **Control** | Control Protocols | X-Stream (with PXT/PXR devices), SPI, DMX, PWM |
| **Fixture Rating & Certifications** | ETL, CE, RoHs | |
| **Limited Warranty** | 5 Years | Extendable warranty available |

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### DIMENSIONS & INSTALLATION

#### PHYSICAL DIMENSIONS



9.9mm

16.2mm

16.2mm

#### STEEL WIRE



ø3.20

18.38

21.70
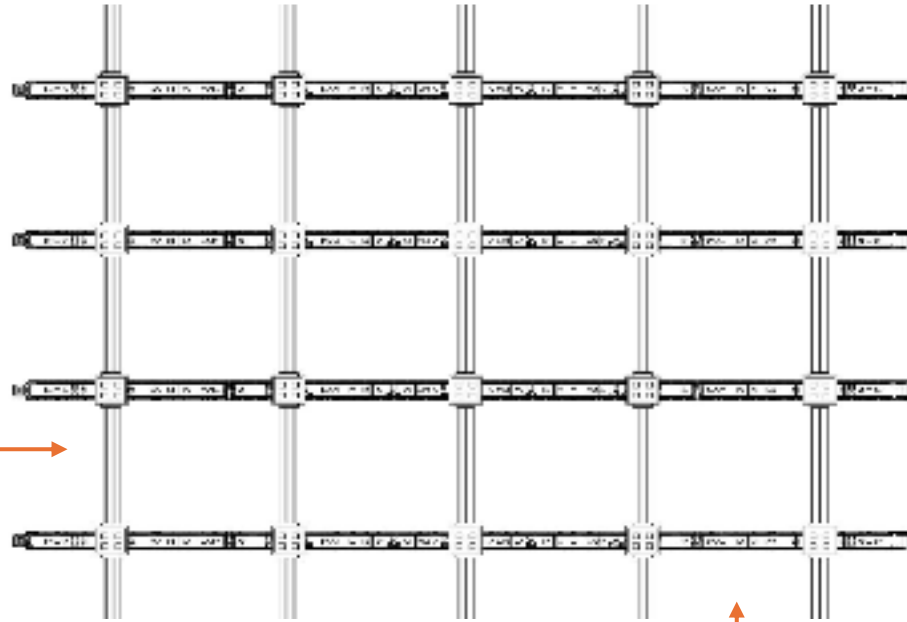
Pitch of Vertical: 40mm – 5000mm

Pitch of Horizontal: 31.25mm, 41.67mm, 50mm, 55mm, 62.5mm, 71.43mm, 100mm, 150mm
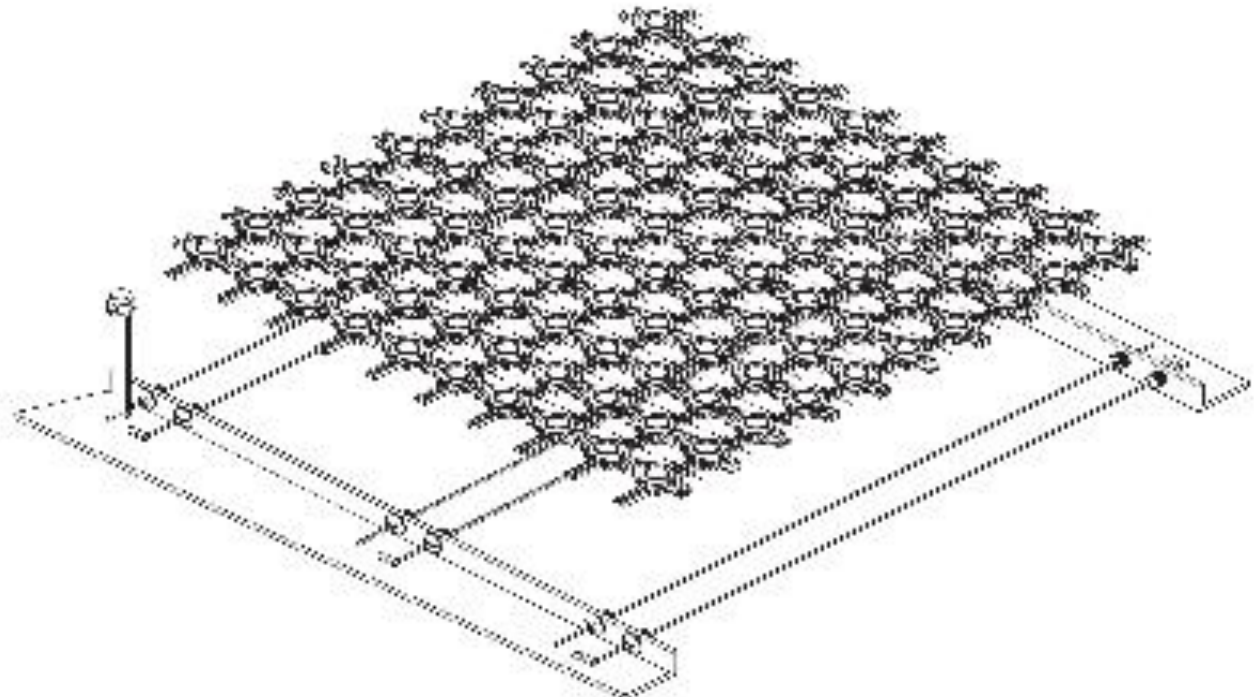
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### WIRING CONSIDERATIONS

### TYPICAL SYSTEM WIRING DIAGRAM



**LED CTRL HEAD END**

SX2  Up to 2040 RGB Pixels
Port 1;  1,020 Pixels
Port 2:  1,020 Pixels

MX96
8 Ports

Artnet / sACN

X-Data

SX2

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