FD SERIES / PRODUCT OVERVIEW

FD Series

Square LED Pixel Lights

FD square nodes align with panel joints in rows or grids. For video playback, a compatible controller maps the content to the positions of the addressable nodes.

CUSTOM OPTIONS

We can supply a project-specific housing colour, rated power per node and node pitch to suit the mounting grid.



CDL-FD1-M1-C1



CDL-FD3-M1-C1



CDL-FD6-M1-C1

STANDARD MODELS

Model	Input voltage	Rated power per node	LEDs per node
CDL-FD1-M1-C1	5 V DC	0.3 W	1
CDL-FD3-M1-C1	12 V DC	1 W	3
CDL-FD6-M1-C1	24 V DC	1.5 W	6

APPLICATIONS

Cable-stayed bridges, entrance canopies and façade grids.

FD SERIES / CONSTRUCTION & APPLICATION

Built for exterior pixel lighting

Square optical form / IP67 construction

FD brings a square optical form to façade rows and columns. The family includes one-, three- and six-LED nodes for different grid layouts.

Square polycarbonate optics

The square cover uses UV-resistant, flame-retardant polycarbonate. Clear and opal finishes offer different light appearances within the same geometric form.

Sealed outdoor construction

A dual-layer housing seal works with silicone encapsulation at the rear to protect the electronic assembly. IP67 protection suits exposed façade installations.

Heat management

The base conducts heat away from the LED assembly within the square node housing.

Alignment across a façade

Square housings follow cladding joints and regular grids. Select node pitch and mounting channels to coordinate the light pattern with the façade module.



Point lighting along the stays of a cable-stayed bridge

Lighting a bridge span

Spaced along the stays, individual points reveal the cable pattern after dark. A line of light along the deck marks the crossing. Addressable control lets the two elements run separate colour sequences.

FD SERIES / TECHNICAL DATA

Technical specifications

Square LED Pixel Lights

Parameter	Specification
Housing material	Polycarbonate (PC)
Optical cover	Clear / opal
Beam angle	120°
Viewing angle	180°
Light colour	White / RGB / RGBW / Single Colour
Control options	SPI (TTL) / DMX512 / ON/OFF
Node density	5 / 6 / 8 / 10 nodes/m
Custom node spacing	Available to suit the project layout
Signal connection	Daisy-chain wiring to suit the control system
Ingress protection	IP67
Impact resistance	IK10
Warranty	5 years

PIXEL CONTROL

For animation and video, specify a pixel-controlled version and compatible controller. Include the node layout and viewing distance with the project brief.

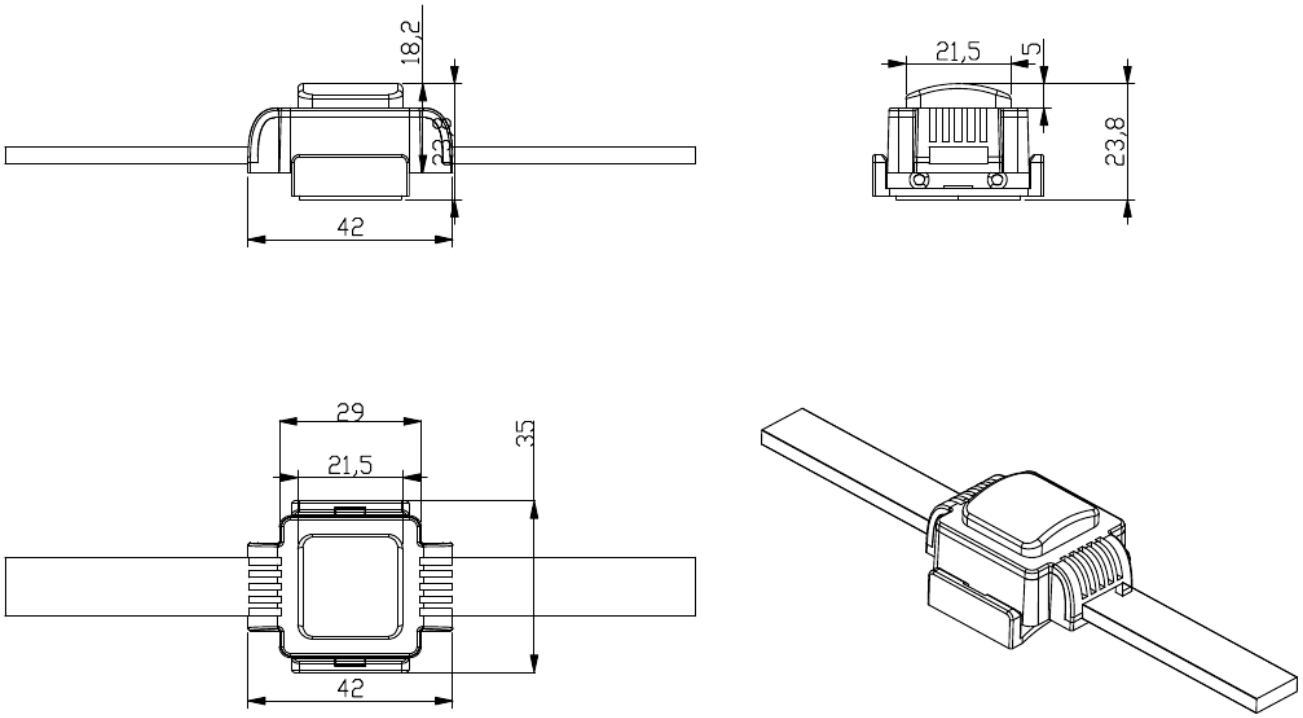
FD SERIES / DIMENSIONS & MOUNTING

Dimensions & mounting

CDL-FD1-M1-C1

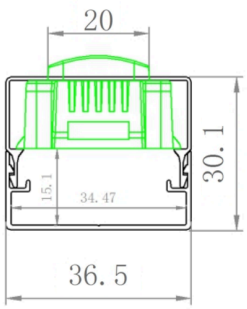
PRODUCT DIMENSIONS

mm



Overall (L × W × H): 42 × 35 × 23.8 mm

ALUMINIUM MOUNTING CHANNEL



Channel (W × H)

36.5 × 30.1 mm

Upper fixture span

20 mm

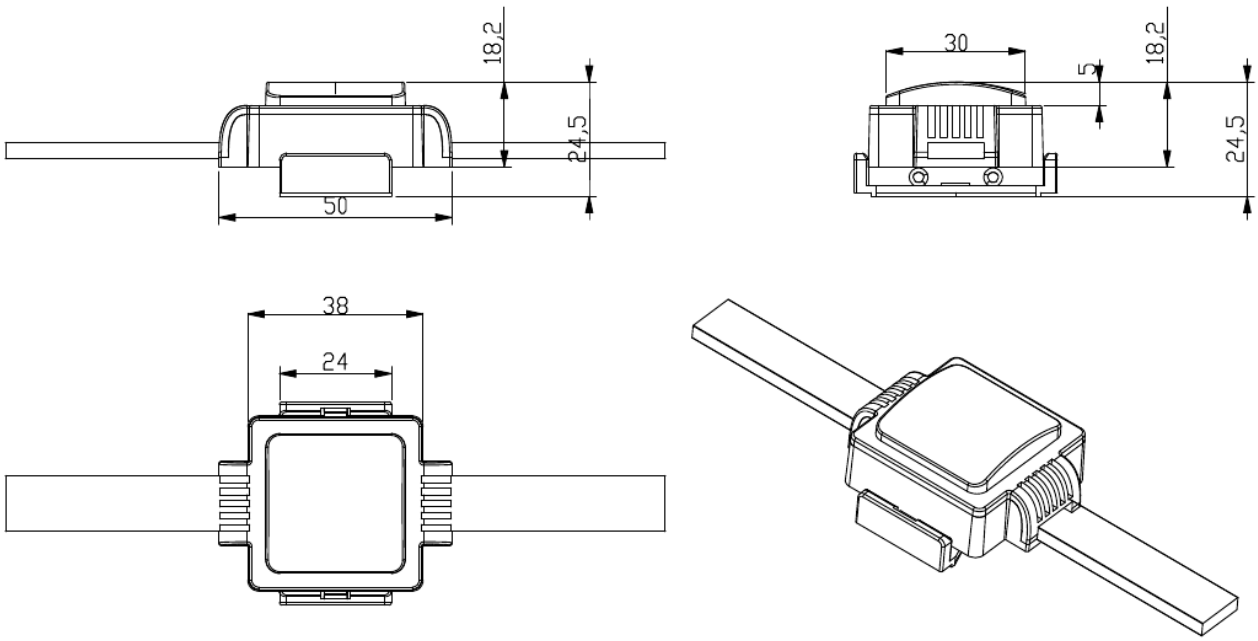
FD SERIES / DIMENSIONS & MOUNTING

Dimensions & mounting

CDL-FD3-M1-C1

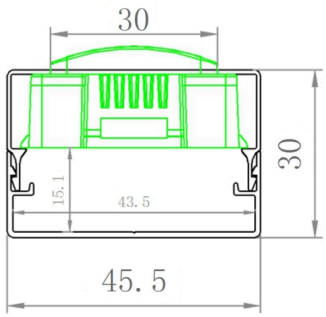
PRODUCT DIMENSIONS

mm



Overall (L × W × H): 50 × 38 × 24.5 mm

ALUMINIUM MOUNTING CHANNEL



Channel (W × H)

45.5 × 30 mm

Upper fixture span

30 mm

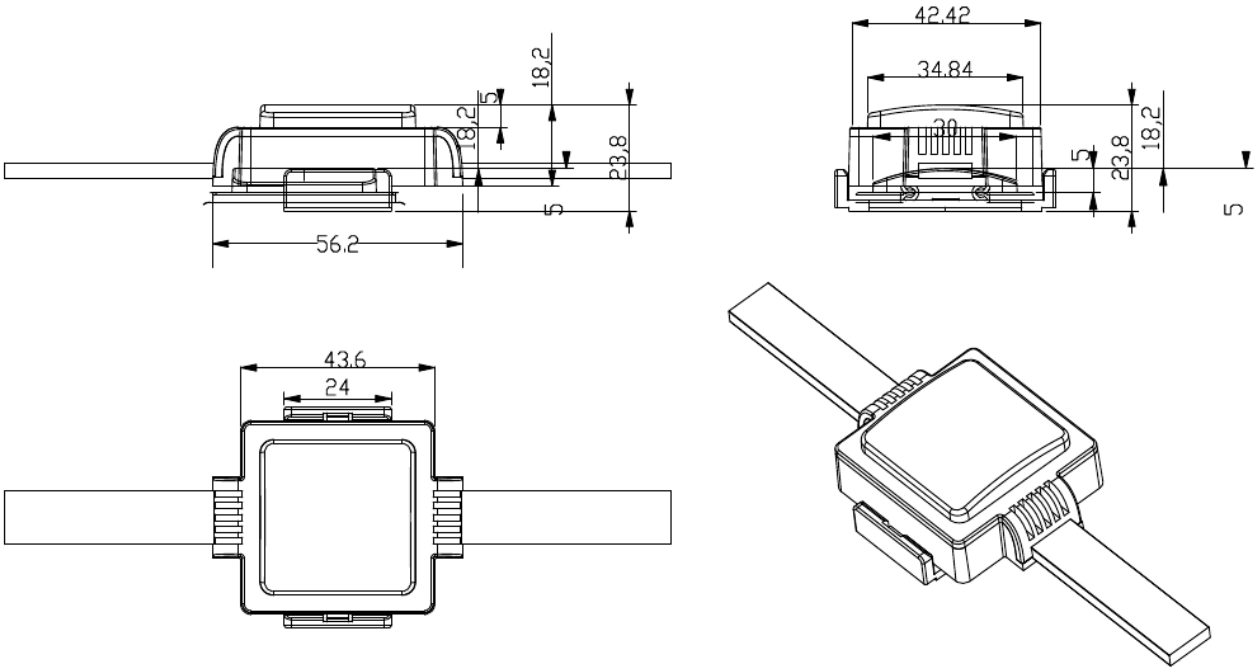
FD SERIES / DIMENSIONS & MOUNTING

Dimensions & mounting

CDL-FD6-M1-C1

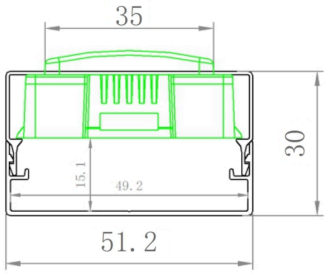
PRODUCT DIMENSIONS

mm



Overall (L × W × H): 56.2 × 43.6 × 23.8 mm

ALUMINIUM MOUNTING CHANNEL



Channel (W × H)

51.2 × 30 mm

Upper fixture span

35 mm