

MATRIX LIGHTS

Direct, universal illumination of most surfaces.



- COMPACT DESIGN
- HOMOGENOUS LIGHT FIELD
- UNIVERSAL MOUNTING
- ROUGH, METAL HOUSING

CONFIGURATION

Ordering Code

MX	50	R
Matrix light	active illumination area	wavelength

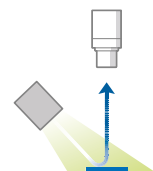
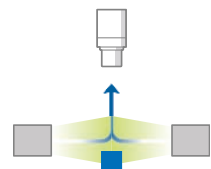
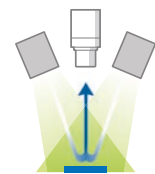
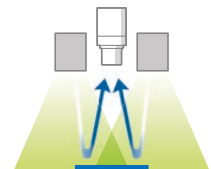
MX-50

model series	active illumination area	wavelength	LED radiation angle
MX-50W	50 × 50 mm	white	120°
MX-50B	50 × 50 mm	470 nm	120°
MX-50G	50 × 50 mm	525 nm	120°
MX-50R	50 × 50 mm	633 nm	60°
MX-50IR	50 × 50 mm	850 nm	50°

MX-90

model series	active illumination area	wavelength	LED radiation angle
MX-90W	90 × 90 mm	white	120°
MX-90B	90 × 90 mm	470 nm	120°
MX-90G	90 × 90 mm	525 nm	120°
MX-90R	90 × 90 mm	633 nm	60°
MX-90IR	90 × 90 mm	850 nm	50°

WAYS OF USE



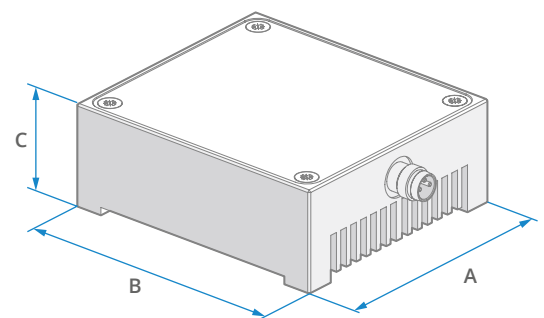
BASIC ELECTRIC PARAMETERS

model		MX-50W	MX-50B	MX-50G	MX-50R	MX-50IR
Voltage Span	U_n	22-28 V	21-28 V	22-28 V	22-28 V	19-28 V
Nominal Voltage	U_{jm}	24 V	24 V	24 V	24 V	24 V
Nominal Current	I_{jm}	230 mA	220 mA	220 mA	190 mA	190 mA
Max. Current	I_{max}	230 mA	220 mA	220 mA	190 mA	190 mA
Trigger Voltage	U_{trig}	12-28 V	12-28 V	12-28 V	12-28 V	12-28 V
Trigger Current	I_{trig}	3,5 mA	3,5 mA	3,5 mA	3,5 mA	3,5 mA
Input	P	5,5 W	5,3 W	5,8 W	4,5 W	4,5 W

model		MX-90W	MX-90B	MX-90G	MX-50R	MX-90IR
Voltage Span	U_n	19-28 V	19-28 V	18-28 V	22-28 V	23-26 V
Nominal Voltage	U_{jm}	24 V	24 V	24 V	24 V	24 V
Nominal Current	I_{jm}	345 mA	340 mA	345 mA	350 mA	340 mA
Max. Current	I_{max}	350 mA	350 mA	350 mA	360 mA	410 mA
Trigger Voltage	U_{trig}	12-28 V	12-28 V	12-28 V	12-28 V	12-28 V
Trigger Current	I_{trig}	5,9 mA	5,9 mA	5,9 mA	5,9 mA	N/A
Input	P	8,3 W	8,2 W	8,3 W	8,4 W	8,2 W

ROZMĚRY

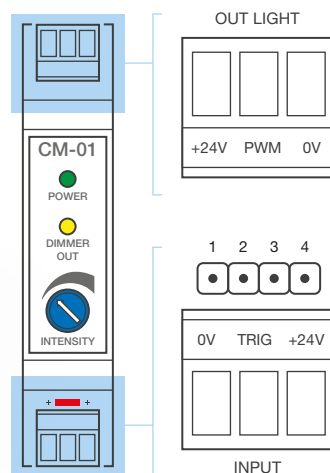
Model	A length (mm)	B width (mm)	C height (mm)	Active lighting area	Weight
MX-50...	70	63	26	50 × 50 mm	188 g
MX-90...	111,8	111,8	22	90 × 90 mm	291 g



CONTROLLER CM-01

Universal illumination intensity controller

Trigger signal input



TERMINAL BOX OUTPUT "OUT LIGHT" - LIGHT CONNECTION

Terminal +24 V light positive pole
Terminal PWM PWM signal
Terminal 0 V light negative pole

TERMINAL BOX INPUT "INPUT" - POWER SUPPLY AND CONTROL SIGNAL CONNECTION

Terminal +24 V positive pole of 24 V DC Power Supply
Terminal 0 V negative pole of 24 V DC Power Supply
Terminal TRIG trigger signal from camera, PLC, etc.

CM-01 MODE OPTION

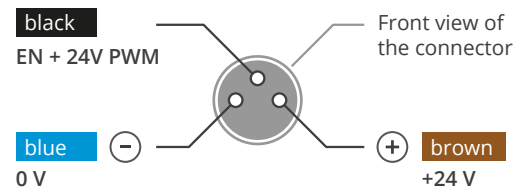
1 - 2 Enable - constant light
 2 - 3 Not used
 1 - 2 Invert trig - light during log 0 signal

OVERALL BASIC INFORMATION

Technical data

IP category	IP50
Protection Category	III
Ambient temperature	-20 - +40 °C
Isolation resistance	500 V
Housing material	Duralumin

CONNECTOR PIN ASSIGNMENT



ACCESSORIES INCLUDED

Transparent diffuser, diffuser with the opacity of 68 %, 5 m straight cable

OPTIONAL ACCESSORIES

Diffusers with the opacity of 38 % and 50 %, polarized diffuser, 5 m angular cable

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