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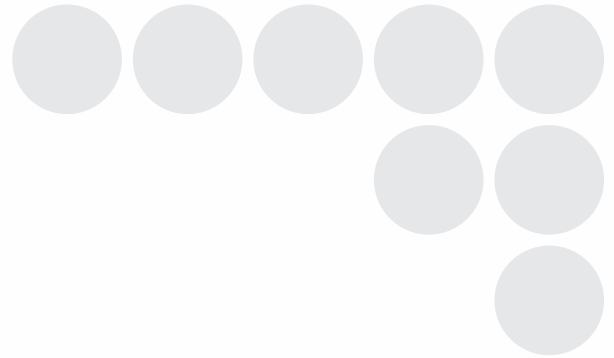
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# OMRON

## Lighting System 3Z4S-LT Series Datasheet



realizing

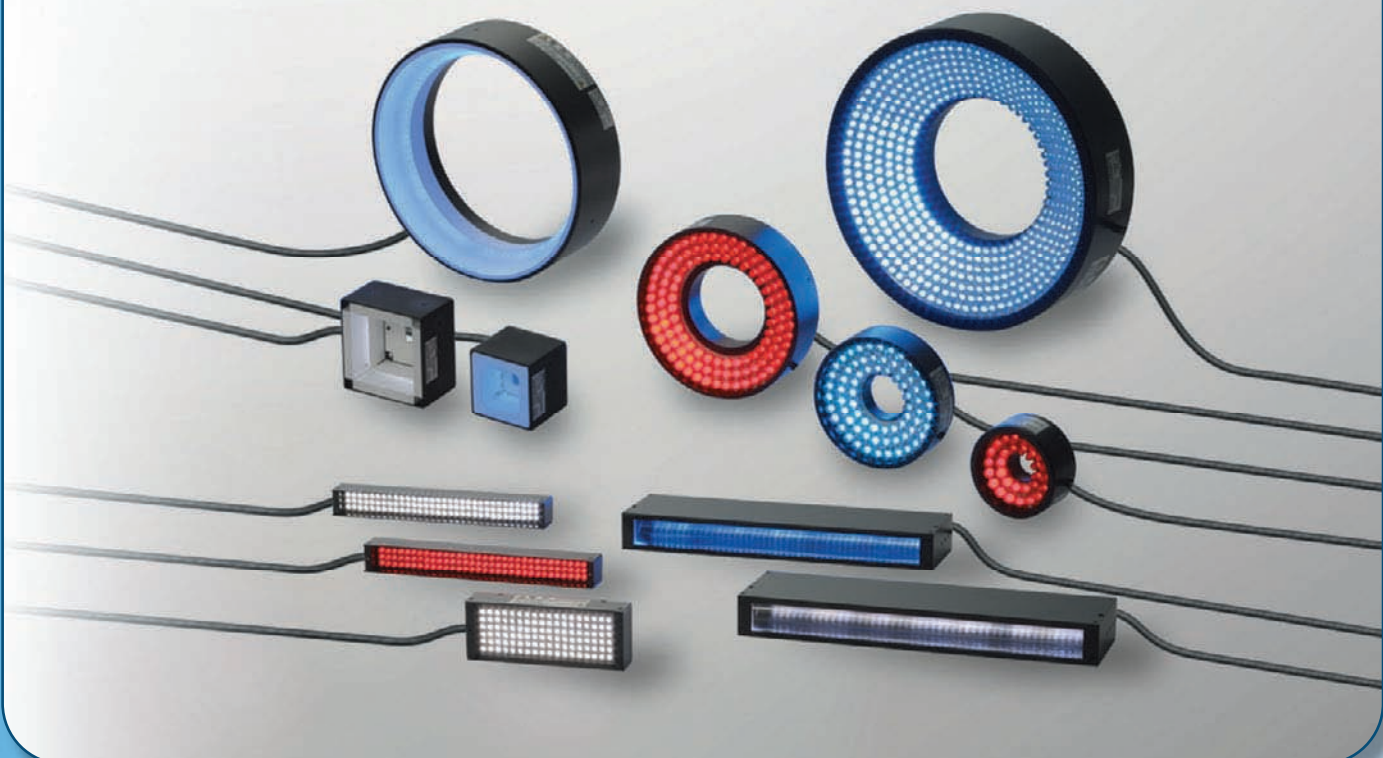
**LED**  
Next Generation

# Next-generation MG-Wave<sup>®</sup> LED Illumination Combines Sensor to Provide New Soluti

Illumination Devices are essential for finding solutions to many of the image-processing tasks of Vision Sensors. With this in mind, we have now combined advanced MG-Wave<sup>®</sup> LED Illumination from the broad Moritex range of original and innovative products based on superior illumination technologies with Vision Sensor image-processing technologies and know-how accumulated over the years by OMRON.

This powerful collaboration has yielded a variety of optimal solutions to inspection and measurement needs in automated production applications.

**A wide range of products allows you to select the optimal Illumination Device for each application.**



# with the Vision ons

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# Direct Ring Light

## Model Number Legend

**3Z4S-LT MDRL-C \* ○ ○**  
 Internal diameter of the ring (mm)  
 Luminescent color (Red=R, Green=G, Blue=B, White=W)



## List of Models

| Model     | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|-----------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MDRL-CR10 | A         | Red               | 0.11                       | 50         | 080          | ○                               |
| MDRL-CB10 | A         | Blue              | 0.17                       |            | 080          | ○                               |
| MDRL-CW10 | A         | White             | 0.17                       |            | 080          | ○                               |
| MDRL-CR16 | B         | Red               | 0.24                       | 65         | 080          | ○                               |
| MDRL-CB16 | B         | Blue              | 0.37                       |            | 080          | ○                               |
| MDRL-CW16 | B         | White             | 0.37                       |            | 080          | ○                               |
| MDRL-CR28 | C         | Red               | 0.20                       | 65         | 080          | ○                               |
| MDRL-CB28 | C         | Blue              | 0.31                       |            | 080          | ○                               |
| MDRL-CW28 | C         | White             | 0.31                       |            | 080          | ○                               |
| MDRL-CR31 | D         | Red               | 0.36                       | 130        | 080          | ○                               |
| MDRL-CB31 | D         | Blue              | 0.55                       |            | 080          | ○                               |
| MDRL-CW31 | D         | White             | 0.55                       |            | 080          | ○                               |
| MDRL-CR35 | E         | Red               | 0.34                       | 150        | 080          | ○                               |
| MDRL-CB35 | E         | Blue              | 0.52                       |            | 080          | ○                               |
| MDRL-CW35 | E         | White             | 0.52                       |            | 080          | ○                               |
| MDRL-CR36 | F         | Red               | 0.36                       | 120        | 080          | ○                               |
| MDRL-CB36 | F         | Blue              | 0.55                       |            | 080          | ○                               |
| MDRL-CW36 | F         | White             | 0.55                       |            | 080          | ○                               |
| MDRL-CR50 | G         | Red               | 0.64                       | 180        | 080          | ○                               |
| MDRL-CB50 | G         | Blue              | 0.96                       |            | 230          | ×                               |
| MDRL-CW50 | G         | White             | 0.96                       |            | 230          | ×                               |
| MDRL-CR56 | H         | Red               | 1.12                       | 520        | 230          | ×                               |
| MDRL-CB56 | H         | Blue              | 1.55                       |            | 230          | ×                               |
| MDRL-CW56 | H         | White             | 1.55                       |            | 230          | ×                               |

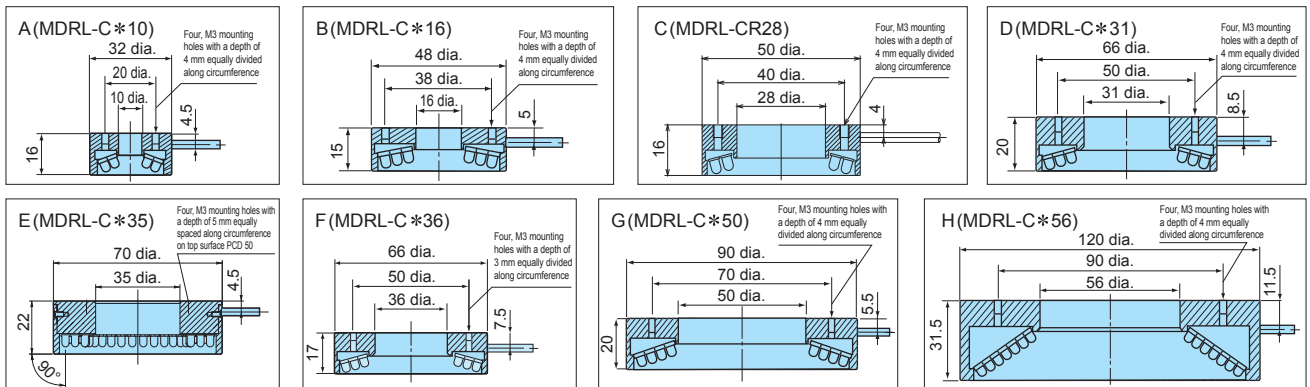
The MDRL-C\*35 provides perpendicular illumination to enable a long working distance.  
 The recommended working distance is 65 mm or longer, but if a reflective surface is being illuminated, the working distance can be as long as 200 mm.

## Options

Diffusion and Polarizing plates are available to prevent the vignetting of image.

For detail, [See "Adapter: MAD Series" on page 21.](#)

## Dimensions



Mounting hole position: Equally spaced starting at a 45° offset from where the cable is connected to the unit. (Hole diameters, depths, and quantities are shown in the drawings.)

Standard cable length: 500 mm

# Low Angle Ring Light

## Model Number Legend

**3Z4S-LT MLRL-C \*** ○ ○ ○  
 Internal diameter of the ring (mm)  
 Luminescent color (Red=R, Green=G, Blue=B, White=W)



## List of Models

| Model      | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|------------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MLRL-CR25  | A         | Red               | 0.15                       | 70         | 080          | ○                               |
| MLRL-CB25  | A         | Blue              | 0.24                       |            | 080          | ○                               |
| MLRL-CW25  | A         | White             | 0.24                       |            | 080          | ○                               |
| MLRL-CR46  | B         | Red               | 0.17                       | 80         | 080          | ○                               |
| MLRL-CB46  | B         | Blue              | 0.27                       |            | 080          | ○                               |
| MLRL-CW46  | B         | White             | 0.27                       |            | 080          | ○                               |
| MLRL-CR48  | C         | Red               | 0.30                       | 110        | 080          | ○                               |
| MLRL-CB48  | C         | Blue              | 0.47                       |            | 080          | ○                               |
| MLRL-CW48  | C         | White             | 0.47                       |            | 080          | ○                               |
| MLRL-CR68  | D         | Red               | 0.57                       | 190        | 080          | ○                               |
| MLRL-CB68  | D         | Blue              | 0.61                       |            | 080          | ○                               |
| MLRL-CW68  | D         | White             | 0.61                       |            | 080          | ○                               |
| MLRL-CR100 | E         | Red               | 0.96                       | 320        | 230          | ×                               |
| MLRL-CB100 | E         | Blue              | 1.03                       |            | 230          | ×                               |
| MLRL-CW100 | E         | White             | 1.03                       |            | 230          | ×                               |

## Options

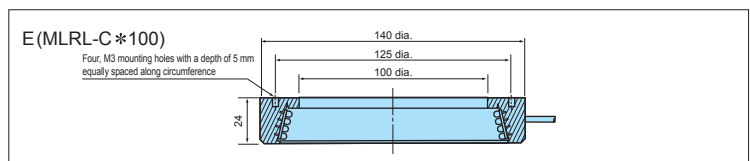
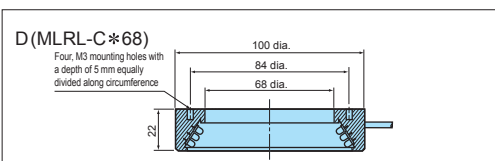
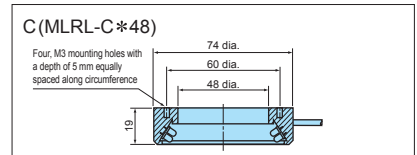
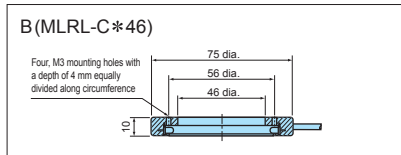
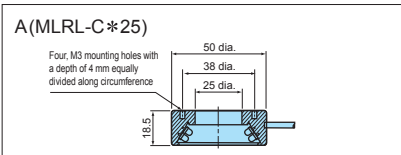
Good for producing more uniform illumination than with direct lighting and for reducing glare and reflections.

### Diffusion ring



| Model     | Applicable model     |
|-----------|----------------------|
| MDF-LR25  | MLRL-C (R,G,B,W) 25  |
| MDF-LR48  | MLRL-C (R,G,B,W) 48  |
| MDF-LR68  | MLRL-C (R,G,B,W) 68  |
| MDF-LR100 | MLRL-C (R,G,B,W) 100 |

## Dimensions



Mounting hole locations: Equally spaced starting at a 45° offset from where the cable is connected to the unit. (Hole diameters, depths, and quantities are shown in the drawings.) Standard cable length: 500 mm

# Coaxial Light/Simulated Coaxial Episcopic Light

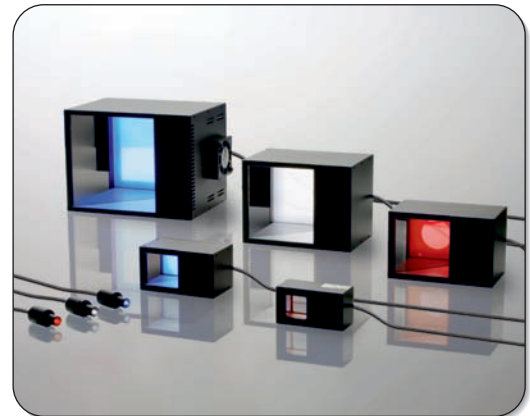
## Model Number Legend

### Coaxial

**3Z4S-LT MCEL-C \* ○ ○ ○ ○**  
 External diameter of the point  
 Luminescent color (Red=R, Green=G, Blue=B, White=W)

### Simulated Coaxial

**3Z4S-LT MSCL-C \* ○ ○ ○ ○ - \***  
 Box height Revision code  
 Luminescent color (Red=R, Green=G, Blue=B, White=W)



## List of Models

### Lineup of Coaxial Light

| Model    | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|----------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MCEL-CR8 | A         | Red               | 0.04                       | 35         | 080          | ×                               |
| MCEL-CB8 | A         | Blue              | 0.03                       |            | 080          | ×                               |
| MCEL-CW8 | A         | White             | 0.03                       |            | 080          | ×                               |

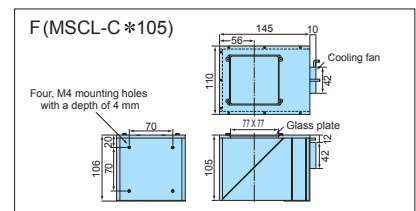
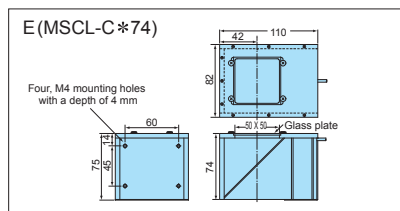
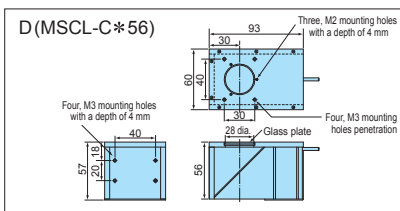
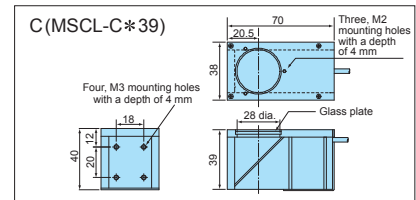
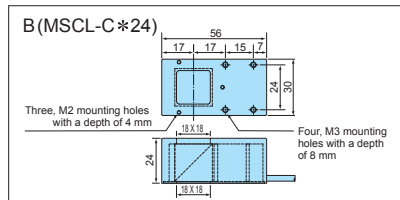
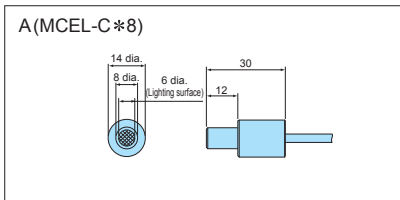
### Lineup of Simulated Coaxial Episcopic Light

| Model         | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|---------------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MSCL-CR24     | B         | Red               | 0.09                       | 110        | 080          | ○                               |
| MSCL-CB24     | B         | Blue              | 0.20                       |            | 080          | ○                               |
| MSCL-CW24     | B         | White             | 0.20                       |            | 080          | ○                               |
| MSCL-CR39     | C         | Red               | 0.16                       | 160        | 080          | ○                               |
| MSCL-CB39     | C         | Blue              | 0.31                       |            | 080          | ○                               |
| MSCL-CW39     | C         | White             | 0.31                       |            | 080          | ○                               |
| MSCL-CR56-B   | D         | Red               | 0.33                       | 320        | 080          | ○                               |
| MSCL-CB56-B   | D         | Blue              | 0.66                       |            | 080          | ○                               |
| MSCL-CW56-B   | D         | White             | 0.66                       |            | 080          | ○                               |
| MSCL-CR74-B   | E         | Red               | 0.62                       | 520        | 080          | ○                               |
| MSCL-CB74-B   | E         | Blue              | 1.11                       |            | 230          | ×                               |
| MSCL-CW74-B   | E         | White             | 1.11                       |            | 230          | ×                               |
| MSCL-CR105-B* | F         | Red               | 2.14                       | 920        | 230          | ×                               |
| MSCL-CB105-B* | F         | Blue              | 2.07                       |            | 230          | ×                               |
| MSCL-CW105-B* | F         | White             | 2.07                       |            | 230          | ×                               |

\*Always run the cooling fan to prevent heat build-up.

\*A Power Supply Extension Cable (M-RCB00-L) is require for the built-in fan. This is in addition to the normal Extension Cable. [Refer to page 22](#)

## Dimensions




Standard cable length: 500 mm


# Shadowless Light

## Model Number Legend

### Shadowless

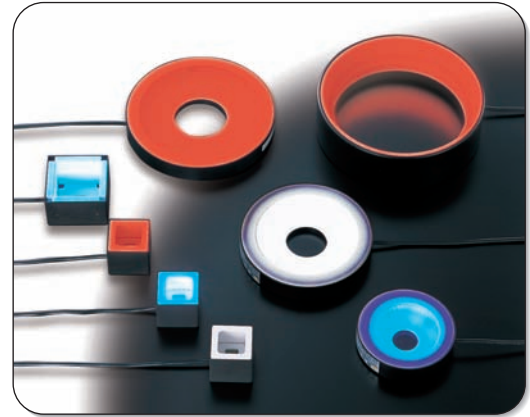
**3Z4S-LT MSRL-C \***   
 Internal diameter of the ring (mm)  
 Luminescent color (Red=R, Green=G, Blue=B, White=W)

### Shadowless Low Angle Ring

**3Z4S-LT MSLL-C \***   
 Internal diameter of the ring (mm)  
 Luminescent color (Red=R, Green=G, Blue=B, White=W)

### Shadowless Low Angle Square

**3Z4S-LT MSQL-C \***   
 External side dimension (mm)  
 Luminescent color (Red=R, Green=G, Blue=B, White=W)



## List of Models

### Line up of Shadowless

| Model     | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|-----------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MSRL-CR20 | A         | Red               | 0.32                       | 140        | 080          | ○                               |
| MSRL-CW20 | A         | White             | 0.50                       |            | 080          | ○                               |
| MSRL-CR33 | B         | Red               | 0.45                       | 210        | 080          | ○                               |
| MSRL-CW33 | B         | White             | 0.69                       |            | 080          | ○                               |
| MSRL-CR44 | C         | Red               | 0.57                       | 270        | 080          | ○                               |
| MSRL-CB44 | C         | Blue              | 0.80                       |            | 080          | ○                               |
| MSRL-CW44 | C         | White             | 0.80                       |            | 080          | ○                               |

### Line up of Shadowless Low Angle Ring

| Model      | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|------------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MSLL-CR109 | D         | Red               | 0.62                       | 320        | 080          | ○                               |
| MSLL-CW109 | D         | White             | 1.10                       |            | 230          | ×                               |

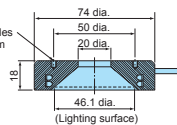
### Line up of Shadowless Low Angle Square

| Model     | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|-----------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MSQL-CW32 | E         | White             | 0.14                       | 80         | 080          | ○                               |
| MSQL-CW48 | F         | White             | 0.20                       | 120        | 080          | ○                               |

## Dimensions

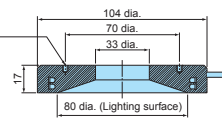
### A (MSRL-C\*20)

Four, M3 mounting holes with a depth of 4 mm



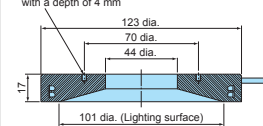
### B (MSRL-C\*33)

Four, M3 mounting holes with a depth of 4 mm



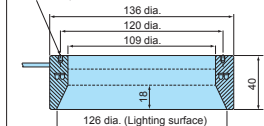
### C (MSRL-C\*44)

Four, M3 mounting holes with a depth of 4 mm

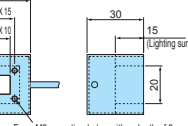


### D (MSLL-C\*109)

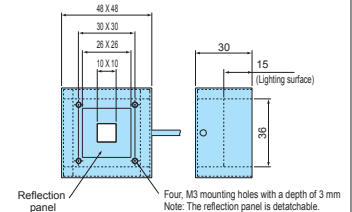
Four, M3 mounting holes with a depth of 4 mm



### E (MSQL-C\*32)



### F (MSQL-C\*48)



Mounting hole locations:

A to D: Equally spaced starting at a 45° offset from where the cable is connected to the unit. (Hole diameters, depths, and quantities are shown in the drawings.)

Standard cable length: 500 mm

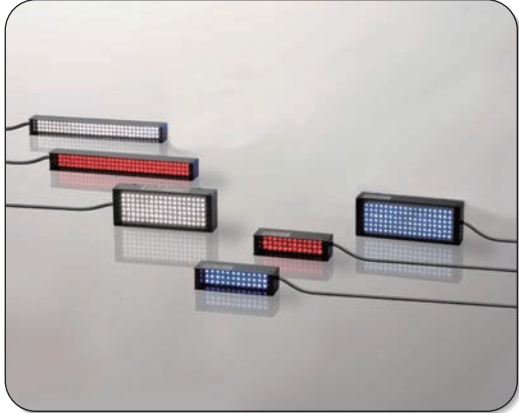


# Bar Light/Line Light

**MBRL Series**

## Model Number Legend

**MBRL Series**  
**3Z4S-LT MBRL-C \* ○ ○ ○ ○**  
 Size (length and width)  
 Luminescent color (Red=R, Green=G, Blue=B, White=W)

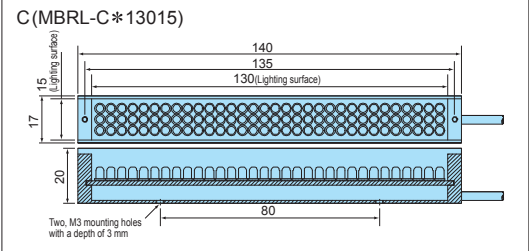
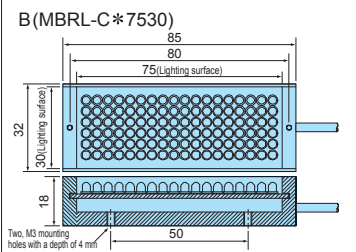
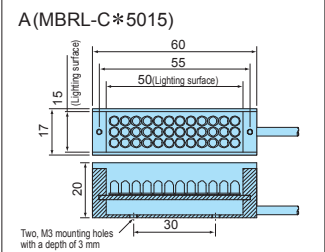


## List of Models

### Lineup of Bar Light

| Model               | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|---------------------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| <b>MBRL-CR5015</b>  | A         | Red               | 0.13                       | 50         | 080          | ○                               |
| <b>MBRL-CB5015</b>  | A         | Blue              | 0.26                       |            | 080          | ○                               |
| <b>MBRL-CW5015</b>  | A         | White             | 0.26                       |            | 080          | ○                               |
| <b>MBRL-CR7530</b>  | B         | Red               | 0.36                       | 120        | 080          | ○                               |
| <b>MBRL-CB7530</b>  | B         | Blue              | 0.52                       |            | 080          | ○                               |
| <b>MBRL-CW7530</b>  | B         | White             | 0.52                       |            | 080          | ○                               |
| <b>MBRL-CR13015</b> | C         | Red               | 0.32                       | 85         | 080          | ○                               |
| <b>MBRL-CB13015</b> | C         | Blue              | 0.53                       |            | 080          | ○                               |
| <b>MBRL-CW13015</b> | C         | White             | 0.53                       |            | 080          | ○                               |

## Dimensions



Mounting hole locations:  
 A to C: Arranged around the center of the mounting surface.

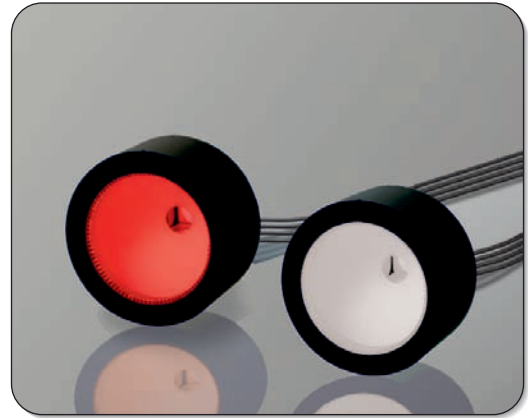
Standard cable length: 500 mm

# Dome Light

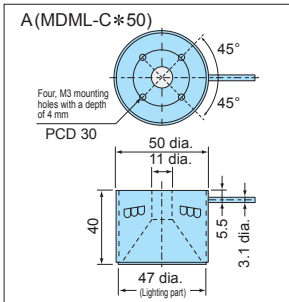
MDML Series

## Model Number Legend

3Z4S-LT MDML-C \*      
 External size  
 Luminescent color (Red=R, White=W)



## Dimensions



Standard cable length: 500 mm

## List of Models

| Model     | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|-----------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MDML-CR50 | A         | Red               | 0.24                       | 130        | 080          | ○                               |
| MDML-CW50 | A         | White             | 0.37                       |            | 080          | ○                               |

# High-powered Spot LED Light

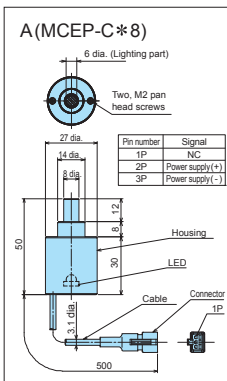
MCEP Series

## Model Number Legend

3Z4S-LT MCEP-C \* 8  
 Luminescent color  
 (Red=R, Green=G, Blue=B, White=W)

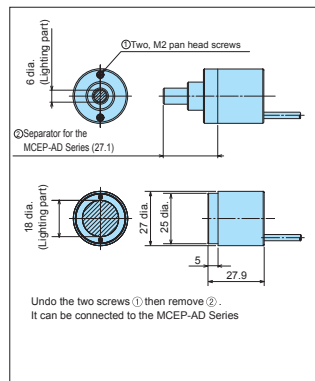


## Dimensions



Standard cable length: 500 mm

## Removing the Point Rod



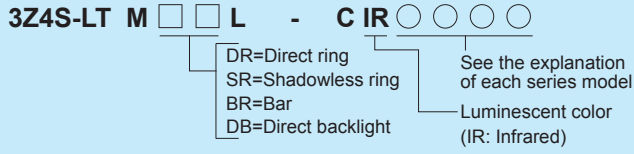
## List of Models

| Model    | Dimension | Luminescent Color | Dominant wavelength* | Color temperature | Max. rated current IFM (A) | Weight (g) | Connection to strobe controller |
|----------|-----------|-------------------|----------------------|-------------------|----------------------------|------------|---------------------------------|
| MCEP-CR8 | A         | Red               | 620.5~645nm          | —                 | 0.35                       | 50         | ×                               |
| MCEP-CB8 | A         | Blue              | 470~480nm            | —                 | 0.35                       |            | ×                               |
| MCEP-CW8 | A         | White             | All                  | 5000~6000K        | 0.35                       |            | ×                               |

\*The dominant wavelength of visible color according to CIE color coordinates. There are differences in the illuminated color for the dominant wavelengths of these LEDs. Colors may appear to be different even for the same model number.

# IR Light

## Model Number Legend

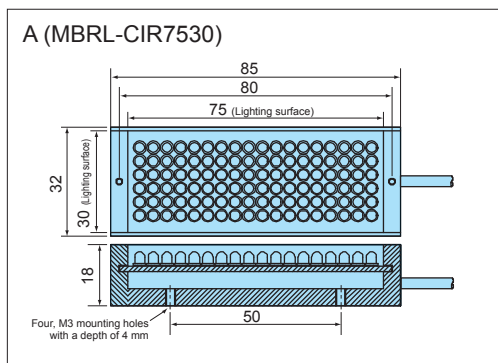


## List of Models

| Model               | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|---------------------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| <b>MBRL-CIR7530</b> | A         | Infrared          | 0.40                       | 120        | 080          | <input type="checkbox"/>        |

\*The dominant wavelength of visible color according to CIE color coordinates. There are differences in the illuminated color for the dominant wavelengths of these LEDs. Colors may appear to be different even for the same model number.

## Dimensions



Mounting hole locations: C: Arranged around the center of the mounting surface.

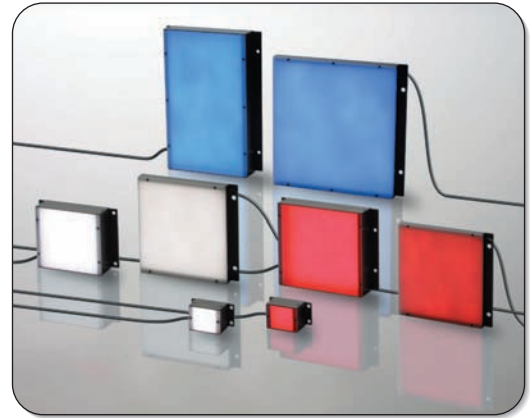
Standard cable length: 500 mm

# Direct Backlight

## Model Number Legend

**Shell type**  
**3Z4S-LT MDBL-C \* ○ ○ ○**  
 Size (length and width)  
 Luminescent color (Red=R, Green=G, Blue=B, White=W)

**Chip mounting type**  
**3Z4S-LT MDBC-C \* ○ ○ ○**  
 Chip type  
 Size (length and width)  
 Luminescent color (Red=R, Green=G, Blue=B, White=W)



## List of Models

### Lineup of Shell type

| Model         | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|---------------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MDBL-CR25     | A         | Red               | 0.14                       | 60         | 080          | ○                               |
| MDBL-CB25     | A         | Blue              | 0.27                       |            | 080          | ○                               |
| MDBL-CW25     | A         | White             | 0.27                       |            | 080          | ○                               |
| MDBL-CR70     | B         | Red               | 0.48                       | 190        | 080          | ○                               |
| MDBL-CB70     | B         | Blue              | 0.96                       |            | 230          | ×                               |
| MDBL-CW70     | B         | White             | 0.96                       |            | 230          | ×                               |
| MDBL-CR100    | C         | Red               | 1.43                       | 290        | 230          | ×                               |
| MDBL-CB100    | C         | Blue              | 1.55                       |            | 230          | ×                               |
| MDBL-CW100    | C         | White             | 1.55                       |            | 230          | ×                               |
| MDBL-CR180100 | D         | Red               | 2.30                       | 520        | 230          | ×                               |
| MDBL-CB180100 | D         | Blue              | 2.30                       |            | 230          | ×                               |
| MDBL-CW180100 | D         | White             | 2.30                       |            | 230          | ×                               |

### Lineup of Chip mounting type

| Model      | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|------------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MDBC-CR100 | E         | Red               | 0.81                       | 170        | 230          | ×                               |
| MDBC-CW100 | E         | White             | 0.95                       |            | 230          | ×                               |
| MDBC-CR150 | F         | Red               | 0.99                       | 310        | 230          | ×                               |
| MDBC-CW150 | F         | White             | 2.14                       |            | 230          | ×                               |

## Dimensions

**A (MDBL-C \*25)**

**B (MDBL-C \*70)**

**D (MDBL-C \*180100)**

**E (MDBC-C \*100)**

**F (MDBC-C \*150)**

Standard cable length: 500 mm

# Edge-type Backlight

## Model Number Legend

**3Z4S-LT MEBL-C \* ○ ○ ○ ○**

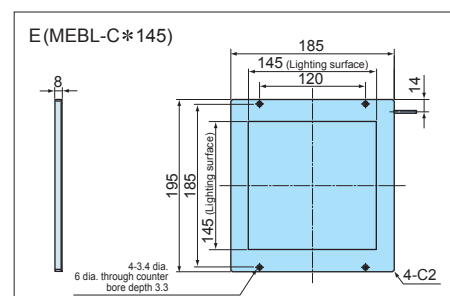
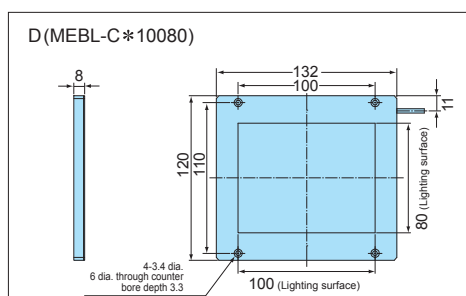
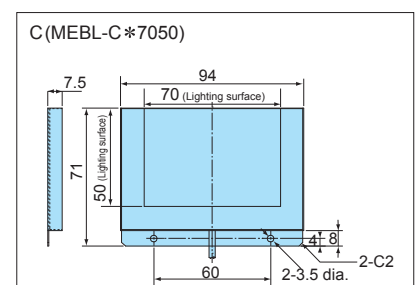
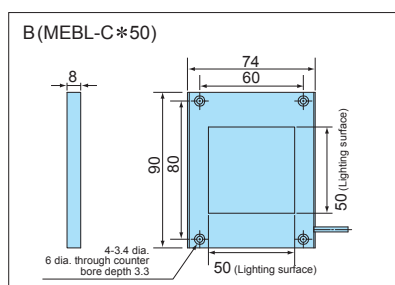
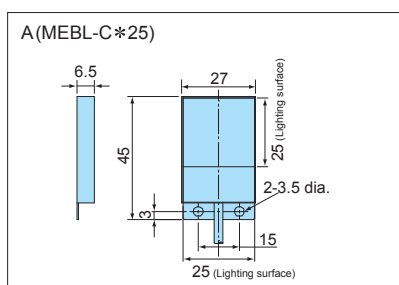
Size (length and width)  
Luminescent color (Red=R, Green=G, Blue=B, White=W)



## List of Models

| Model        | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|--------------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MEBL-CR25    | A         | Red               | 0.03                       | 45         | 080          | ○                               |
| MEBL-CB25    | A         | Blue              | 0.04                       |            | 080          | ○                               |
| MEBL-CW25    | A         | White             | 0.04                       |            | 080          | ○                               |
| MEBL-CR50    | B         | Red               | 0.17                       | 110        | 080          | ○                               |
| MEBL-CB50    | B         | Blue              | 0.29                       |            | 080          | ○                               |
| MEBL-CW50    | B         | White             | 0.29                       |            | 080          | ○                               |
| MEBL-CR7050  | C         | Red               | 0.15                       | 140        | 080          | ○                               |
| MEBL-CB7050  | C         | Blue              | 0.25                       |            | 080          | ○                               |
| MEBL-CW7050  | C         | White             | 0.25                       |            | 080          | ○                               |
| MEBL-CR10080 | D         | Red               | 0.32                       | 230        | 080          | ○                               |
| MEBL-CB10080 | D         | Blue              | 0.57                       |            | 080          | ○                               |
| MEBL-CW10080 | D         | White             | 0.57                       |            | 080          | ○                               |
| MEBL-CR145   | E         | Red               | 0.45                       | 460        | 080          | ○                               |
| MEBL-CB145   | E         | Blue              | 0.8                        |            | 080          | ○                               |
| MEBL-CW145   | E         | White             | 0.8                        |            | 080          | ○                               |

## Dimensions



Standard cable length: 500 mm

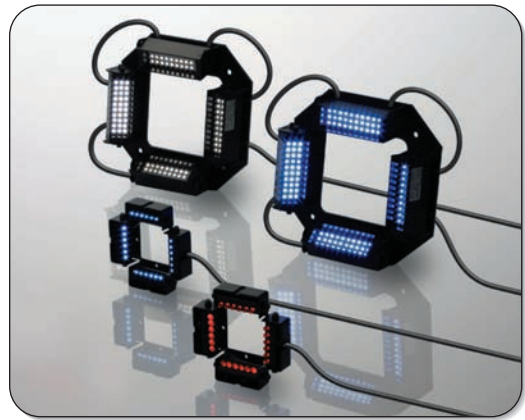
# Square Oblique Light

## Model Number Legend

3Z4S-LT MDQL-C \* ○ ○ ○ ○

External size

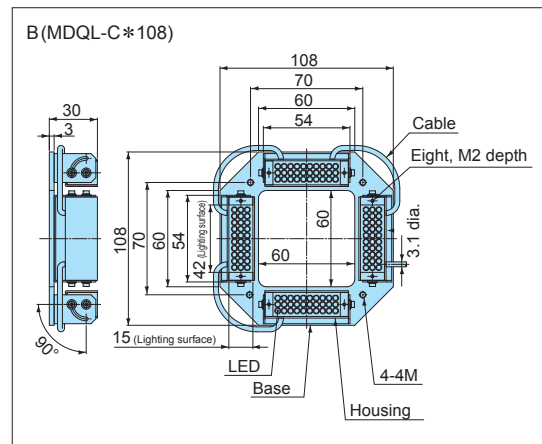
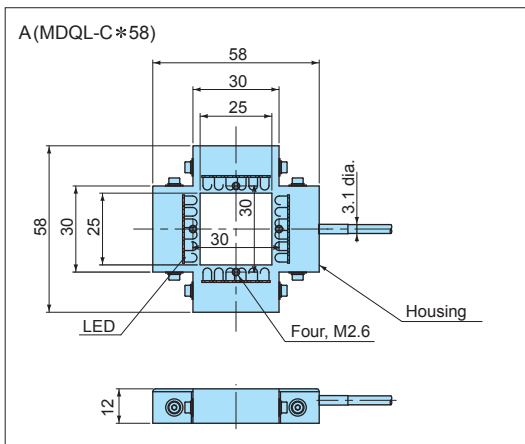
Luminescent color (Red=R, Green=G, Blue=B, White=W)



## List of Models

| Model      | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|------------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MDQL-CR58  | A         | Red               | 0.09                       | 55         | 080          | ○                               |
| MDQL-CW58  | A         | White             | 0.17                       |            | 080          | ○                               |
| MDQL-CR108 | B         | Red               | 0.42                       | 210        | 080          | ○                               |
| MDQL-CW108 | B         | White             | 0.84                       |            | 230          | x                               |

## Dimensions



Standard cable length: 500 mm

# Spot Led Light

**MSPP Series**

(CE Marking)

**Model Number Legend**

3Z4S-LT MSPP-C \* ○ ○

○ Effective size (Lighting part)  
○ Luminescent color (Red=R, White=W)

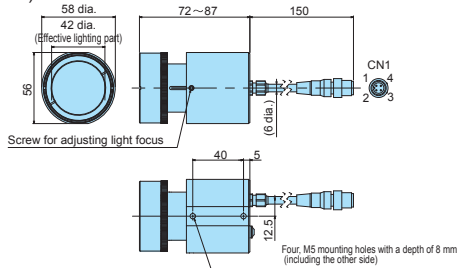
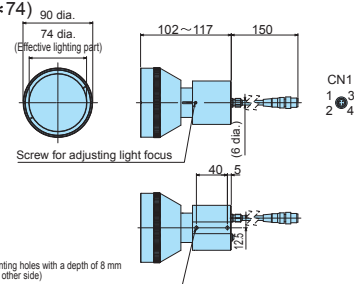
**List of Models**
**Wide projection**

| Model     | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply     | Connection to strobe controller |
|-----------|-----------|-------------------|----------------------------|------------|------------------|---------------------------------|
| MSPP-CR42 | A         | Red               | 0.7                        | 460g       | MLEP-A070 series | ×                               |
| MSPP-CW42 | A         | White             | 0.7                        | 460g       | MLEP-A070 series | ×                               |

**Narrow projection**

| Model     | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply     | Connection to strobe controller |
|-----------|-----------|-------------------|----------------------------|------------|------------------|---------------------------------|
| MSPP-CR74 | B         | Red               | 0.7                        | 600g       | MLEP-A070 series | ×                               |
| MSPP-CW74 | B         | White             | 0.7                        | 600g       | MLEP-A070 series | ×                               |

\*Always connect a Conversion Cable (3Z4S-LT M-RCB301XS) when connecting the power supply.


**Dimensions**
**A (MSPP-C\*42)**

**B (MSPP-C\*74)**


# Parallel Light

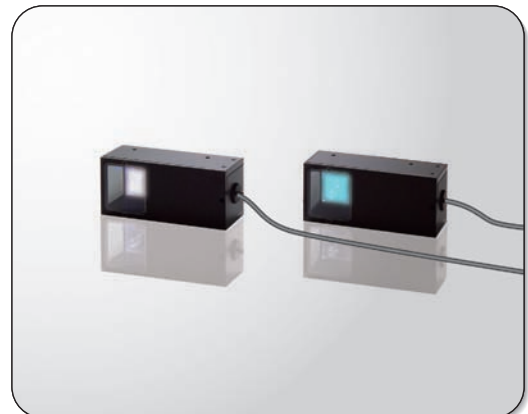
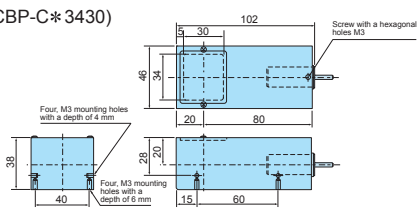
**MCBP Series**
**Model Number Legend**

3Z4S-LT MCBP-C \* ○ ○ ○ ○

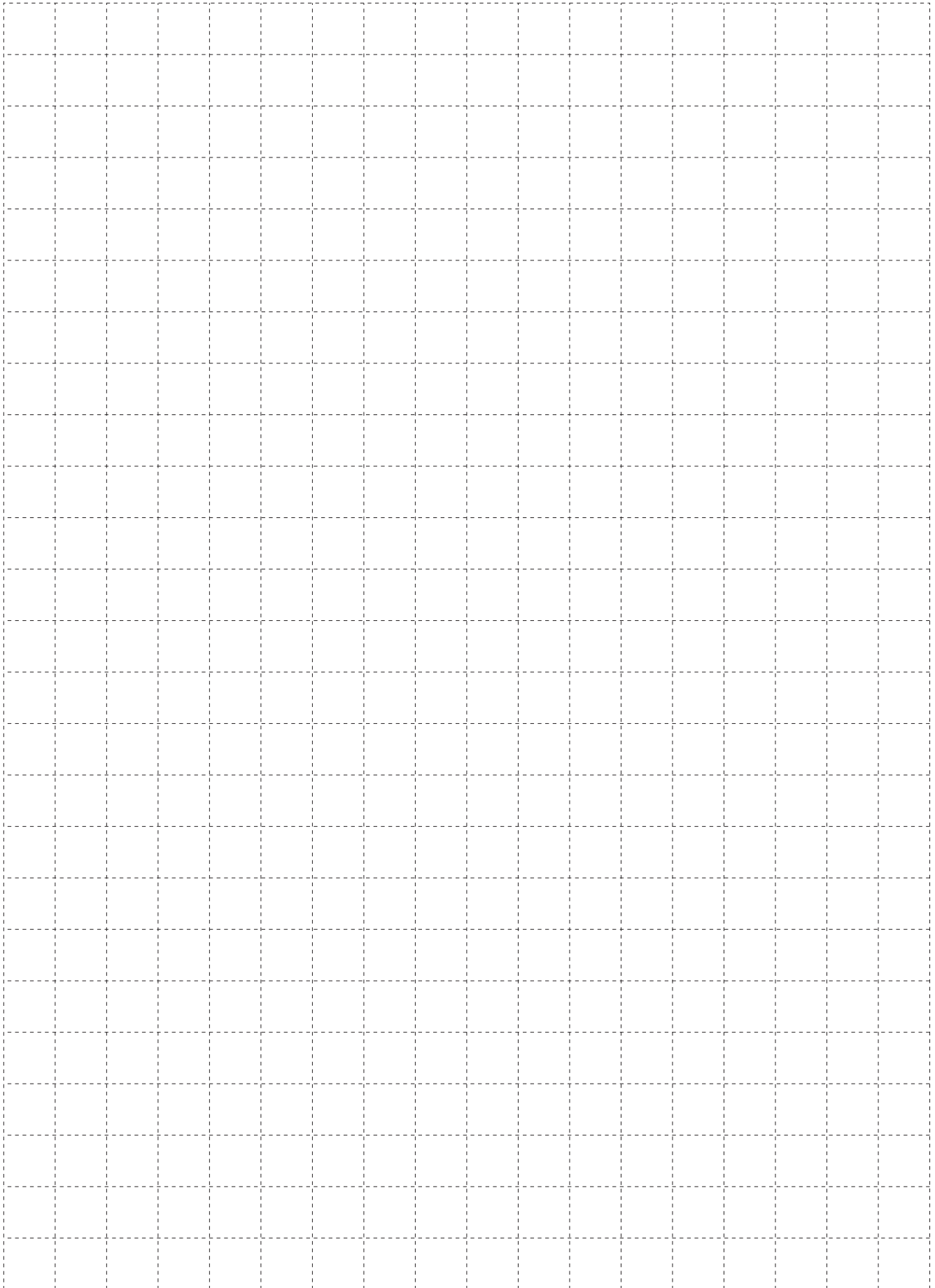
○ Size (length and width)  
○ Luminescent color (Red=R, White=W)

**List of Models**

| Model       | Dimension | Luminescent Color | Max. rated current IFM (A) | Weight (g) | Power supply | Connection to strobe controller |
|-------------|-----------|-------------------|----------------------------|------------|--------------|---------------------------------|
| MCBP-CB3430 | A         | Blue              | 0.07                       | 260        | 080          | ×                               |
| MCBP-CW3430 | A         | White             | 0.07                       |            | 080          | ×                               |

**Dimensions**
**A (MCBP-C\*3430)**


# MEMO





# New Power Supplies for MCEP/MSP Series

These constant-current power supplies are designed specifically for the MCEP Series of High-power LED Spot Lights and MSP Series of LED Spot Lights.

## NEW MLEP Analog Series

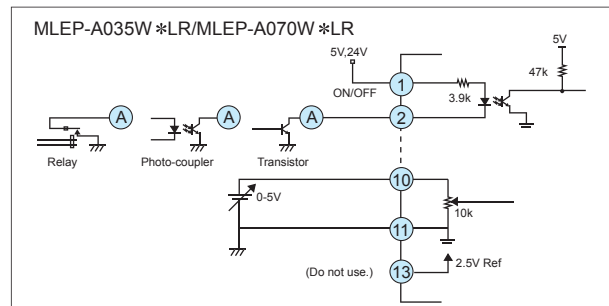
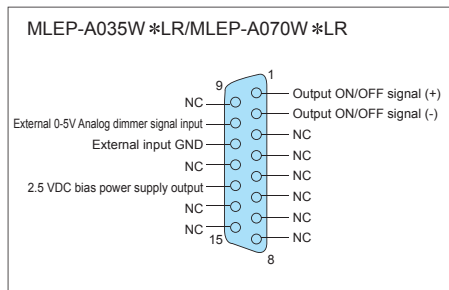
Models are available with an analog light adjustment and for either one or three channels. A wide voltage input (100 to 240 VAC) is supported, along with CE Marking.

### Ratings and Specifications

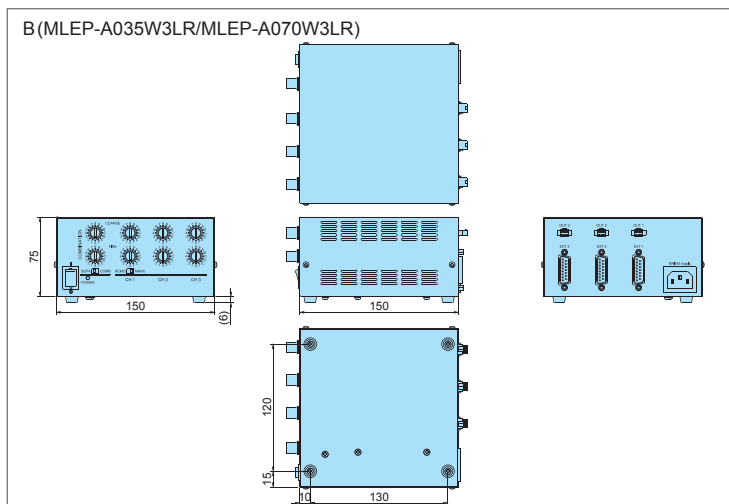
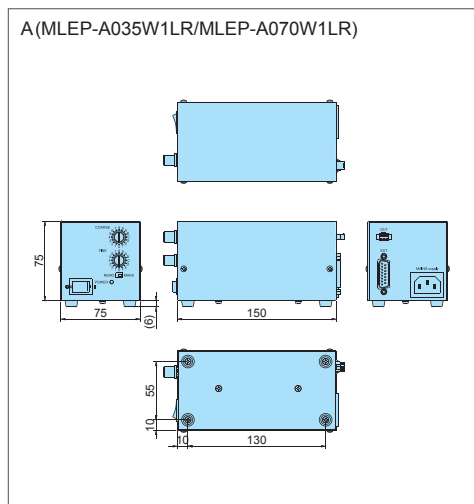
| Model                    | MLEP-A035W<br>1LR-100V   | MLEP-A035W1<br>LR-200V | MLEP-A070W1<br>LR-100V               | MLEP-A070W1<br>LR-200V | MLEP-A035W3<br>LR-100V   | MLEP-A035W3<br>LR-200V | MLEP-A070W3<br>LR-100V                           | MLEP-A070W3<br>LR-200V |
|--------------------------|--|------------------------|--------------------------------------|------------------------|--|------------------------|--|------------------------|
| AC Type                  | 100V   | 200V                   | 100V                                 | 200V                   | 100V   | 200V                   | 100V   | 200V                   |
| Output                   | Single-channel out put<br>max.350 mA                                     |                        | Single-channel out put<br>max.700 mA |                        | 3-channel out put<br>for each channel max.350 mA                         |                        | 3-channel out put<br>for each channel max.700 mA |                        |
| Dimension                | A  |                        |                                      |                        | B  |                        |  |                        |
| Input voltage            | 100 - 240V AC 50 / 60Hz  |                        |                                      |                        | 100 - 240V AC 50 / 60Hz  |                        |  |                        |
| Input current            | 0.35 / 0.25A<br>(at AC 100/240V)   |                        |                                      |                        | 0.35/0.25 A<br>(at AC 100/240V)  |                        |  |                        |
| Surge current            | 20A or lower (at 100V AC)<br>40A or lower (at 240V AC)                   |                        |                                      |                        | 20A or lower (at 100V AC)<br>40A or lower (at 240V AC)                   |                        |  |                        |
| Operating temperature    | 0 to +45°C   |                        |                                      |                        | 0 to +45°C   |                        |  |                        |
| Output system            | Continuous DC output   |                        |                                      |                        | Continuous DC output   |                        |  |                        |
| Output control system    | Constant current control (the current can be changed)                    |                        |                                      |                        | Constant current control (the current can be changed)                    |                        |  |                        |
| External light control   | Supported (0 to 5V)  |                        |                                      |                        | Supported (0 to 5V)  |                        |  |                        |
| Lighting on/off function | Supported (photocoupler insulation)                                      |                        |                                      |                        | Supported (photocoupler insulation)                                      |                        |  |                        |
| Cooling system           | Natural air cooling  |                        |                                      |                        | forcible air cooling   |                        |  |                        |
| Installation             | Horizontal installation on the rubber supports at the bottom of the unit |                        |                                      |                        | Horizontal installation on the rubber supports at the bottom of the unit |                        |  |                        |
| Weight                   | Approximately 0.9kg  |                        |                                      |                        | Approximately 1.4kg  |                        |  |                        |

### Connection Specifications

### I/O Circuit Diagrams



### Dimensions



**Model Number Legend**

**3Z4S-LT MLEP-A \*\*\*W\*LR\* - \*\*\*V**

Maximum output current      Output channel      AC type  
 Digital type(D)



**NEW MLEP Digital Series**

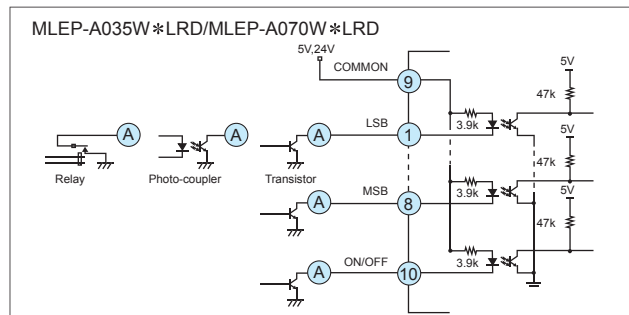
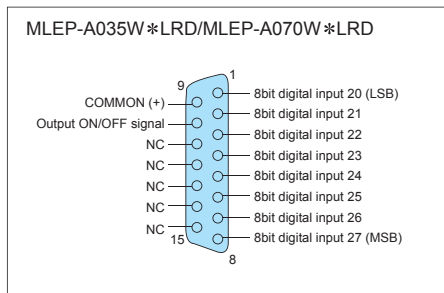
Models are available with a digital light adjustment and for either one or three channels.  
 A wide voltage input (100 to 240 VAC) is supported, along with CE Marking.

**Ratings and Specifications**

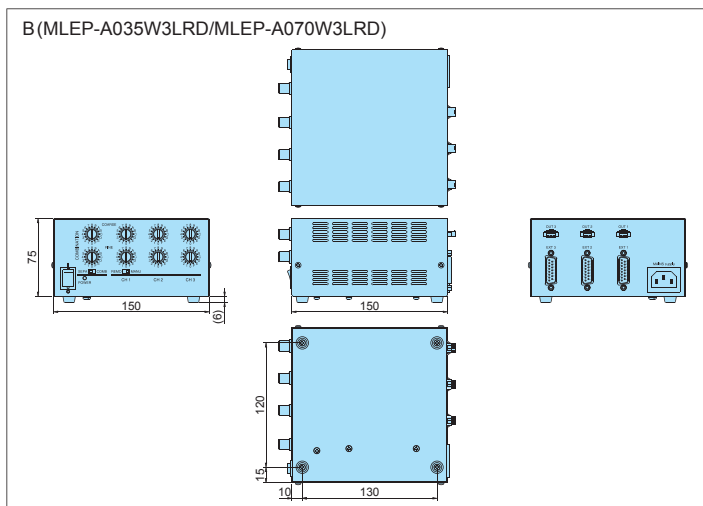
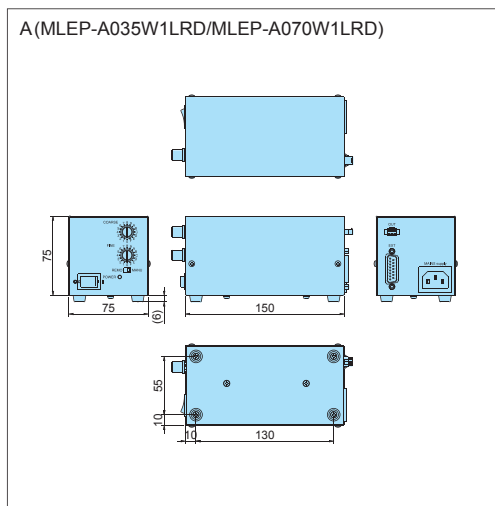
| Model                    | MLEP-A035W1 LRD-100V   | MLEP-A035W1 LRD-200V | MLEP-A070W1 LRD-100V              | MLEP-A070W1 LRD-200V | MLEP-A035W3 LRD-100V   | MLEP-A035W3 LRD-200V | MLEP-A070W3 LRD-100V                          | MLEP-A070W3 LRD-200V |
|--------------------------|--|----------------------|-----------------------------------|----------------------|--|----------------------|---|----------------------|
| AC Type                  | 100V   | 200V                 | 100V                              | 200V                 | 100V   | 200V                 | 100V  | 200V                 |
| Output                   | Single-channel out put max.350 mA  |                      | Single-channel out put max.700 mA |                      | 3-channel out put for each channel max.350 mA                            |                      | 3-channel out put for each channel max.700 mA |                      |
| Dimension                | A  |                      |                                   |                      | B  |                      |   |                      |
| Input voltage            | 100 - 240V AC 50 / 60Hz  |                      |                                   |                      | 100 - 240V AC 50 / 60Hz  |                      |   |                      |
| Input current            | 0.35 / 0.25A (at AC 100/240V)  |                      |                                   |                      | 0.35/0.25 A (at AC 100/240V)   |                      |   |                      |
| Surge current            | 20A or lower (at 100V AC)<br>40A or lower (at 240V AC)                   |                      |                                   |                      | 20A or lower (at 100V AC)<br>40A or lower (at 240V AC)                   |                      |   |                      |
| Operating temperature    | 0 to +45°C   |                      |                                   |                      | 0 to +45°C   |                      |   |                      |
| Output system            | Continuous DC output   |                      |                                   |                      | Continuous DC output   |                      |   |                      |
| Output control system    | Constant current control (the current can be changed)                    |                      |                                   |                      | Constant current control (the current can be changed)                    |                      |   |                      |
| External light control   | Supported (8bit digital)   |                      |                                   |                      | Supported ( for each channel, 8bit digital)                              |                      |   |                      |
| Lighting on/off function | Supported (photocoupler insulation)                                      |                      |                                   |                      | Supported (photocoupler insulation)                                      |                      |   |                      |
| Cooling system           | Natural air cooling  |                      |                                   |                      | forcible air cooling   |                      |   |                      |
| Installation             | Horizontal installation on the rubber supports at the bottom of the unit |                      |                                   |                      | Horizontal installation on the rubber supports at the bottom of the unit |                      |   |                      |
| Weight                   | Approximately 0.9kg  |                      |                                   |                      | Approximately 1.4kg  |                      |   |                      |

**Connection Specifications**

**I/O Circuit Diagrams**



**Dimensions**



# New Power Supplies for MG-Wave Series

These new power supplies are designed specifically for Moritex Constant-current LED Lights (except for the MCEP Series). Even when combining with an LED Light from the broad lineup and possible applications, you can select the ideal Constant-current Power Supply for the required current consumption. The Power Supplies suppress heat generation and will make the most of the characteristics of any of the LED Light. External output controls and other features are also provided.

## A080/230W Analog Series (Total current: 0.8 A or 2.3 A)

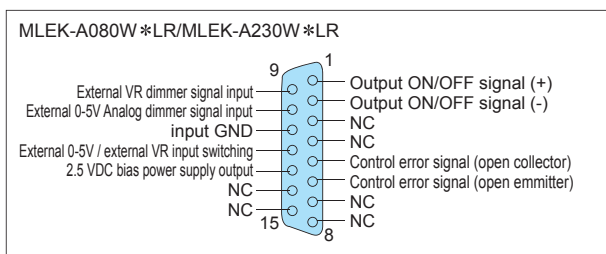
Models are available with an analog light adjustment and for either one or two channels. A wide voltage input (100 to 240 VAC) is supported, along with CE Marking.

### Ratings and Specifications

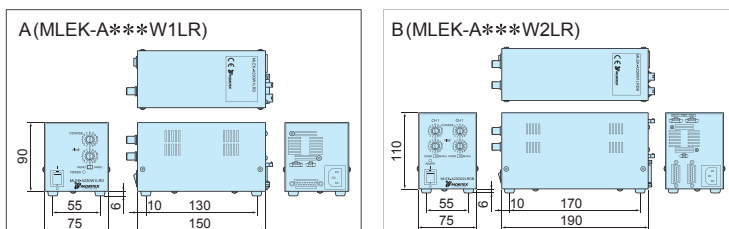
| Model                    | MLEK-A080W1LR-100V   | MLEK-A080W1LR-200V | MLEK-A080W2LR-100V  | MLEK-A080W2LR-200V |
|--------------------------|--|--------------------|---|--------------------|
| AC Type                  | 100V   | 200V               | 100V  | 200V               |
| Output                   | Single-channel output of 0.8A<br>(for connection to all lights except the MCEP Series) |                    | Two-channel maximum, output of 0.8A for each channel<br>(for connection to all lights except the MCEP Series) |                    |
| Input voltage            | 100 - 240V AC 50 / 60Hz  |                    | 100 - 240V AC 50 / 60Hz   |                    |
| Dimension                | A  |                    | B   |                    |
| Input current            | 0.3 / 0.15A<br>(at AC 100/240V)  |                    | 0.3 / 0.15A<br>(at AC 100/240V)   |                    |
| Surge current            | 15A or lower (at 100V AC)<br>35A or lower (at 240V AC)                                 |                    | 15A or lower (at 100V AC)<br>35A or lower (at 240V AC)  |                    |
| Operating temperature    | 0 to +45°C   |                    | 0 to +45°C  |                    |
| Output system            | Continuous DC output   |                    | Continuous DC output  |                    |
| Output control system    | Constant current control (the current can be changed)                                  |                    | Constant current control (the current can be changed)   |                    |
| External light control   | Supported (0 to 5V)  |                    | Supported (0 to 5V)   |                    |
| Lighting on/off function | Supported (photocoupler insulation)  |                    | Supported (photocoupler insulation)   |                    |
| Error output             | Supported (photocoupler insulation, control error)                                     |                    | Supported (photocoupler insulation, control error)  |                    |
| Cooling system           | Natural air cooling  |                    | Natural air cooling   |                    |
| Installation             | Horizontal installation on the rubber supports at the bottom of the unit               |                    | Horizontal installation on the rubber supports at the bottom of the unit                                      |                    |
| Weight                   | Approximately 1kg  |                    | Approximately 1.3kg   |                    |

| Model                    | MLEK-A230W1LR-100V   | MLEK-A230W1LR-200V | MLEK-A230W2LR-100V  | MLEK-A230W2LR-200V |
|--------------------------|--|--------------------|---|--------------------|
| AC Type                  | 100V   | 200V               | 100V  | 200V               |
| Output                   | Single-channel output of 2.3A<br>(for connection to all lights except the MCEP Series) |                    | Two-channel maximum, output of 2.3A for each channel<br>(for connection to all lights except the MCEP Series) |                    |
| Input voltage            | 100 - 240V AC 50 / 60Hz  |                    | 100 - 240V AC 50 / 60Hz   |                    |
| Dimension                | A  |                    | B   |                    |
| Input current            | 0.7 / 0.4A<br>(at AC 100/240V)   |                    | 0.7 / 0.4A<br>(at AC 100/240V)  |                    |
| Surge current            | 15A or lower (at 100V AC)<br>35A or lower (at 240V AC)                                 |                    | 15A or lower (at 100V AC)<br>35A or lower (at 240V AC)  |                    |
| Operating temperature    | 0 to +45°C   |                    | 0 to +45°C  |                    |
| Output system            | Continuous DC output   |                    | Continuous DC output  |                    |
| Output control system    | Constant current control (the current can be changed)                                  |                    | Constant current control (the current can be changed)   |                    |
| External light control   | Supported (0 to 5V dimmer signal / External VR input)                                  |                    | Supported (0 to 5V dimmer signal / External VR input)   |                    |
| Lighting on/off function | Supported (photocoupler insulation)  |                    | Supported (photocoupler insulation)   |                    |
| Error output             | Supported (photocoupler insulation, control error)                                     |                    | Supported (photocoupler insulation, control error)  |                    |
| Cooling system           | forcible air cooling   |                    | forcible air cooling  |                    |
| Installation             | Horizontal installation on the rubber supports at the bottom of the unit               |                    | Horizontal installation on the rubber supports at the bottom of the unit                                      |                    |
| Weight                   | Approximately 1.1kg  |                    | Approximately 1.4kg   |                    |

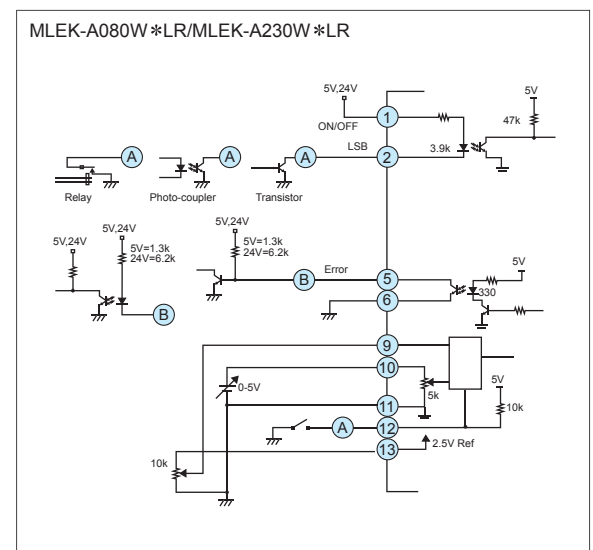
### Connection Specifications



### Dimensions



### I/O Circuit Diagrams



Model Number Legend

3Z4S-LT MLEK-A \*\*\*W\*LR\* - \*\*\* V

Maximum output current      Output channel      AC type  
 Digital type (D)



A080/230W Digital Series (Total current: 0.8 A or 2.3 A)

Models are available with a digital light adjustment and for either one or two channels. A wide voltage input (100 to 240 VAC) is supported, along with CE Marking.

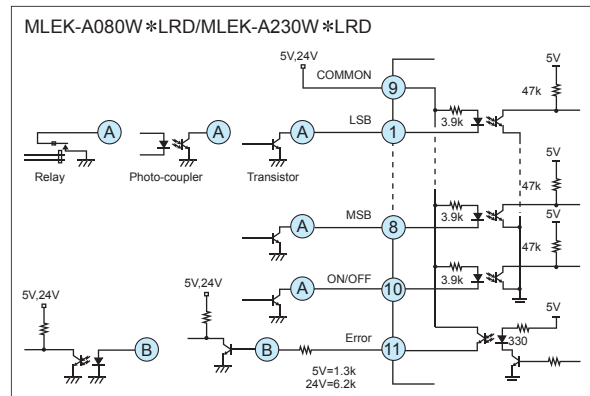
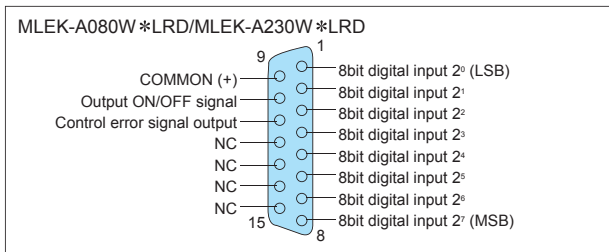
Ratings and Specifications

| Model                    | MLEK-A080W1LRD-100V  | MLEK-A080W1LRD-200V | MLEK-A080W2LRD-100V   | MLEK-A080W2RD-200V |
|--------------------------|--|---------------------|---|--------------------|
| AC Type                  | 100V   | 200V                | 100V  | 200V               |
| Output                   | Single-channel output of 0.8A<br>(for connection to all lights except the MCEP Series) |                     | Two-channel maximum, output of 0.8A for each channel<br>(for connection to all lights except the MCEP Series) |                    |
| Input voltage            | 100 - 240V AC 50 / 60Hz  |                     | 100 - 240V AC 50 / 60Hz   |                    |
| Dimension                | A  |                     | B   |                    |
| Input current            | 0.3 / 0.15A<br>(at AC 100/240V)  |                     | 0.3 / 0.15A<br>(at AC 100/240V)   |                    |
| Surge current            | 15A or lower (at 100V AC)<br>35A or lower (at 240V AC)                                 |                     | 15A or lower (at 100V AC)<br>35A or lower (at 240V AC)  |                    |
| Operating temperature    | 0 to +45°C   |                     | 0 to +45°C  |                    |
| Output system            | Continuous DC output   |                     | Continuous DC output  |                    |
| Output control system    | Constant current control (the current can be changed)                                  |                     | Constant current control (the current can be changed)   |                    |
| External light control   | Supported (8bit digital)   |                     | Supported ( for each channel, 8bit digital)   |                    |
| Lighting on/off function | Supported (photocoupler insulation)  |                     | Supported (photocoupler insulation)   |                    |
| Error output             | Supported (photocoupler insulation, control error)                                     |                     | Supported (photocoupler insulation, control error)  |                    |
| Cooling system           | Natural air cooling  |                     | Natural air cooling   |                    |
| Installation             | Horizontal installation on the rubber supports at the bottom of the unit               |                     | Horizontal installation on the rubber supports at the bottom of the unit                                      |                    |
| Weight                   | Approximately 1kg  |                     | Approximately 1.3kg   |                    |

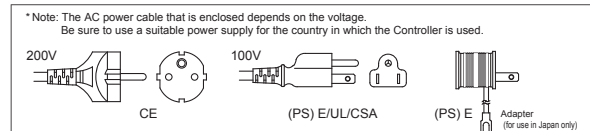
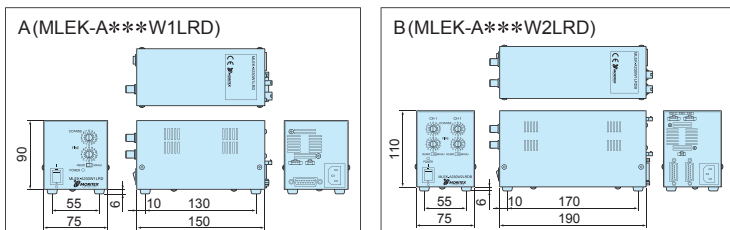
| Model                    | MLEK-A230W1LRD-100V  | MLEK-A230W1LRD-200V | MLEK-A230W2LRDB-100V  | MLEK-A230W2LRDB-200V |
|--------------------------|--|---------------------|---|----------------------|
| AC Type                  | 100V   | 200V                | 100V  | 200V                 |
| Output                   | Single-channel output of 2.3A<br>(for connection to all lights except the MCEP Series) |                     | Two-channel maximum, output of 2.3A for each channel<br>(for connection to all lights except the MCEP Series) |                      |
| Input voltage            | 100 - 240V AC 50 / 60Hz  |                     | 100 - 240V AC 50 / 60Hz   |                      |
| Dimension                | A  |                     | B   |                      |
| Input current            | 0.7 / 0.4A<br>(at AC 100/240V)   |                     | 0.7 / 0.4A<br>(at AC 100/240V)  |                      |
| Surge current            | 15A or lower (at 100V AC)<br>35A or lower (at 240V AC)                                 |                     | 15A or lower (at 100V AC)<br>35A or lower (at 240V AC)  |                      |
| Operating temperature    | 0 to +45°C   |                     | 0 to +45°C  |                      |
| Output system            | Continuous DC output   |                     | Continuous DC output  |                      |
| Output control system    | Constant current control (the current can be changed)                                  |                     | Constant current control (the current can be changed)   |                      |
| External light control   | Supported (8bit digital)   |                     | Supported ( for each channel, 8bit digital)   |                      |
| Lighting on/off function | Supported (photocoupler insulation)  |                     | Supported (photocoupler insulation)   |                      |
| Error output             | Supported (photocoupler insulation, control error)                                     |                     | Supported (photocoupler insulation, control error)  |                      |
| Cooling system           | forcible air cooling   |                     | forcible air cooling  |                      |
| Installation             | Horizontal installation on the rubber supports at the bottom of the unit               |                     | Horizontal installation on the rubber supports at the bottom of the unit                                      |                      |
| Weight                   | Approximately 1.1kg  |                     | Approximately 1.4kg   |                      |

Connection Specifications

I/O Circuit Diagrams



Dimensions



Model Number Legend Multichannel series

3Z4S-LT MLEK- D770W4LRD- \*\*\* V  
 |  
 AC type

Multichannel series

Models are available with a digital light adjustment and for four channels. A wide voltage input (100 to 240 VAC) is supported, along with Rohs compliance.

The digital light adjustment provides the previous 8-bit, 256-step control and a new 10-bit, 1,024-step control.

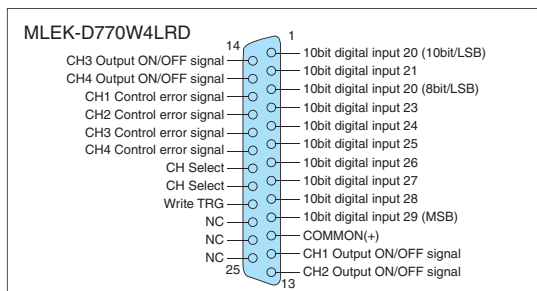
\*CE Marking.



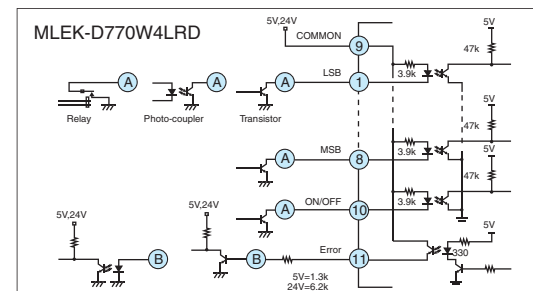
Ratings and Specifications

| Model                    | MLEK-D770W4LRD-100V  | MLEK-D770W4LRD-200V |
|--------------------------|--|---------------------|
| AC Type                  | 100V   | 200V                |
| Output                   | 4-channel output Total max. 7.7A (CH1~ CH3:max. 2.3A CH4:max. 0.8A)<br>(for connection to all lights except the MCEP Series) |                     |
| Input voltage            | 100 - 240V AC 50 / 60Hz  |                     |
| Dimension                | A  |                     |
| Input current            | 1.7/0.8 A<br>(at AC 100/240V)  |                     |
| Surge current            | 18A or lower (at 100V AC)<br>41A or lower (at 230V AC)   |                     |
| Operating temperature    | 0 to +45°C   |                     |
| Output system            | Continuous DC output   |                     |
| Output control system    | Constant current control (the current can be changed)  |                     |
| External light control   | Supported ( for each channel, 8bit digital or 10 bit digital)  |                     |
| Lighting on/off function | Supported (photocoupler insulation)  |                     |
| Error output             | Supported (photocoupler insulation, control error)   |                     |
| Cooling system           | forcible air cooling   |                     |
| Installation             | Horizontal installation on the rubber supports at the bottom of the unit   |                     |
| Weight                   | Approximately 2kg  |                     |

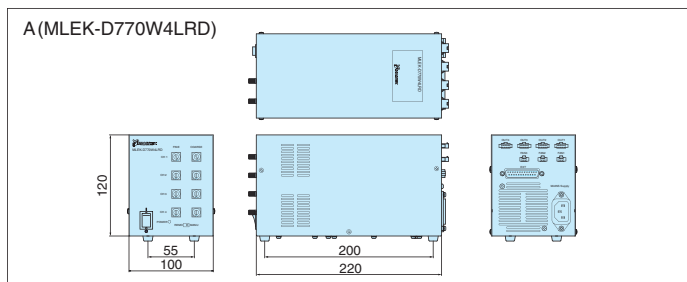
Connection Specifications



I/O Circuit Diagrams



Dimensions



# Optional Accessories

\*When ordering, provide the specific model number after "SZ4S-LT" (example: SZ4S-LT MDF-DR10).

## Options for lights

The following optional accessories are available to improve the functionality of the lighting devices.

### Diffusion plate:MDF Series

The MDF series features a diffusion plate that increases the light diffusion and reduces reflection and glare from the element.

| Model       | Product type                              | Compatible light models                 |
|-------------|---|---|
| MDF-DQ108   | Square oblique light diffusion plate      | MDQL-CR(CG,CB,CW) for 108, 4 pieces/set |
| MDF-DR10    | Diffusion plate for direct-ring lights    | MDRL-CR (CG,CB,CW) for 10               |
| MDF-DR16    | Diffusion plate for direct-ring lights    | MDRL-CR (CG,CB,CW) for 16               |
| MDF-DR28    | Diffusion plate for direct-ring lights    | MDRL-CR (CG,CB,CW) for 28               |
| MDF-DR31    | Diffusion plate for direct-ring lights    | MDRL-CR (CG,CB,CW) for 31               |
| MDF-DR50    | Diffusion plate for direct-ring lights    | MDRL-CR (CG,CB,CW) for 50               |
| MDF-DR56    | Diffusion plate for direct-ring lights    | MDRL-CR (CG,CB,CW) for 56               |
| MDF-LR25    | Diffusion plate for low-angle ring lights | MLRL-CR (CG,CB,CW) for 25               |
| MDF-LR48    | Diffusion plate for low-angle ring lights | MLRL-CR (CG,CB,CW) for 48               |
| MDF-LR68    | Diffusion plate for low-angle ring lights | MLRL-CR (CG,CB,CW) for 68               |
| MDF-LR100   | Diffusion plate for low-angle ring lights | MLRL-CR (CG,CB,CW) for 100              |
| MDF-BR5015  | Diffusion plate for bar lights            | MBRL-CR (CG,CB,CW) for 5015             |
| MDF-BR7530  | Diffusion plate for bar lights            | MBRL-CR (CG,CB,CW) for 7530             |
| MDF-BR13015 | Diffusion plate for bar lights            | MBRL-CR (CG,CB,CW) for 13015            |

An asterisk (\*) in "compatible light models" refers to any LED color (R,G,B or W) of the light.

### Polarizing plate:MPL Series

The MPL series polarizing plates are attached to LEDs with Moritex's lenses in order to reduce unwanted glare and reflection during image processing.

| Model         | Product type                             | Compatible light models                 |
|---------------|--|---|
| MPL-DQ108     | Square oblique light polarizing plate    | MDQL-CR(CG,CB,CW) for 108, 4 pieces/set |
| MPL-SC56      | Simulated coaxial light polarizing plate | MSCL-CR (CG,CB,CW) for 56               |
| MPL-SC74      | Simulated coaxial light polarizing plate | MSCL-CR (CG,CB,CW) for 72               |
| MPL-SC105     | Simulated coaxial light polarizing plate | MSCL-CR (CG,CB,CW) for 105              |
| MPL-DR10-B    | Polarizing plate for direct-ring lights  | MDRL-CR (CG,CB,CW) for 10               |
| MPL-DR16-B    | Polarizing plate for direct-ring lights  | MDRL-CR (CG,CB,CW) for 16               |
| MPL-DR28-B    | Polarizing plate for direct-ring lights  | MDRL-CR (CG,CB,CW) for 28               |
| MPL-DR31-B    | Polarizing plate for direct-ring lights  | MDRL-CR (CG,CB,CW) for 31               |
| MPL-DR50-B    | Polarizing plate for direct-ring lights  | MDRL-CR (CG,CB,CW) for 50               |
| MPL-DR56-B    | Polarizing plate for direct-ring lights  | MDRL-CR (CG,CB,CW) for 56               |
| MPL-BR5015-B  | Polarizing plate for bar lights          | MBRL-CR (CG,CB,CW) for 5015             |
| MPL-BR7530-B  | Polarizing plate for bar lights          | MBRL-CR (CG,CB,CW) for 7530             |
| MPL-BR13015-B | Polarizing plate for bar lights          | MBRL-CR (CG,CB,CW) for 13015            |

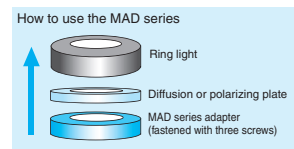
An asterisk (\*) in "compatible light models" refers to any LED color (R,G,B or W) of the light.

### Adapter : MAD Series

The MAD series is essential when a diffusion or polarizing plate is attached to a ring light.

| Model    | Product type                                    | Compatible light models   |
|----------|---|---------------------------|
| MAD-DR10 | Plate attachment adapter for direct-ring lights | MDRL-CR (CG,CB,CW) for 10 |
| MAD-DR16 | Plate attachment adapter for direct-ring lights | MDRL-CR (CG,CB,CW) for 16 |
| MAD-DR28 | Plate attachment adapter for direct-ring lights | MDRL-CR (CG,CB,CW) for 28 |
| MAD-DR31 | Plate attachment adapter for direct-ring lights | MDRL-CR (CG,CB,CW) for 31 |
| MAD-DR50 | Plate attachment adapter for direct-ring lights | MDRL-CR (CG,CB,CW) for 50 |
| MAD-DR56 | Plate attachment adapter for direct-ring lights | MDRL-CR (CG,CB,CW) for 56 |

An asterisk (\*) in "compatible light models" refers to any LED color (R,G,B or W) of the light.

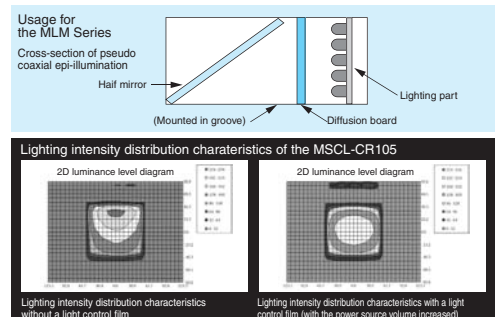


### Light control film : MLM Series

The MLM series are resin films that transform diffused light into near-parallel light. Attached to a simulated coaxial light, it makes the light distribution pattern smoother.

| Model     | Product type                                    | Compatible light models    |
|-----------|---|----------------------------|
| MLM-SC56  | Light control film for simulated coaxial lights | MSCL-CR (CG,CB,CW) for 56  |
| MLM-SC74  | Light control film for simulated coaxial lights | MSCL-CR (CG,CB,CW) for 74  |
| MLM-SC105 | Light control film for simulated coaxial lights | MSCL-CR (CG,CB,CW) for 105 |

An asterisk (\*) in "compatible light models" refers to any LED color (R,G,B or W) of the light.





## Options for bridging lights with lenses

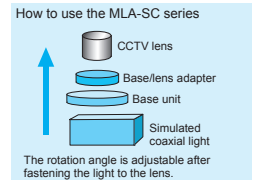
The following optional adapters are designed to be used with Moritex's lenses.

### Simulated Coaxial Light/CCTV Lens Adapter: MLA-SC Series

The MLA-SC Series enables small simulated coaxial lights to be mounted at the end of CCTV lenses.

| Model      | Product type                                   | Compatible light models      |
|------------|--|------------------------------|
| MLA-SCBS   | Mount base for simulated coaxial lights        | MSCL-C*24/39/56              |
| MLA-SCM255 | Base/lens adapter for simulated coaxial lights | Filter screw: M25.5P0.5 lens |
| MLA-SCM270 | Base/lens adapter for simulated coaxial lights | Filter screw: M27P0.5 lens   |
| MLA-SCM305 | Base/lens adapter for simulated coaxial lights | Filter screw: M30.5P0.5 lens |

An asterisk (\*) in "compatible light models" refers to any LED color (R,G,B or W) of the light.  
\*Do not apply any unnecessary load to the lens.

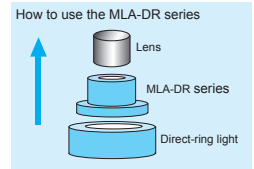


### MML/CCTV Lens Adapter

The adapter can be easily used in combination with CCTV lenses.

| Model        | Product type            | Compatible light models        |
|--------------|-------------------------|--------------------------------|
| MLA-DR1616   | Lens attachment adapter | MDRL-C*16 and R-16 mm lenses   |
| MLA-DR3125   | Lens attachment adapter | MDRL-C*31 and R-25 mm lenses   |
| MLA-DR3130   | Lens attachment adapter | MDRL-C*31 and R-30 mm lenses   |
| MLA-DR31M255 | Lens attachment adapter | MDRL-C*31 and M25.5P0.5 lenses |
| MLA-DR31M270 | Lens attachment adapter | MDRL-C*31 and M27P0.5 lenses   |
| MLA-DR31M305 | Lens attachment adapter | MDRL-C*31 and M30.5P0.5 lenses |

An asterisk (\*) in "compatible light models" refers to any LED color (R,G,B or W) of the light.



### Sharp-cut Filter R64 Series

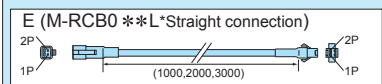
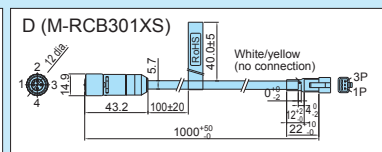
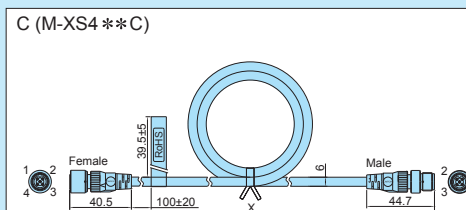
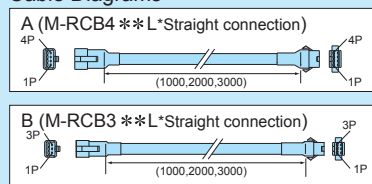
These Filters can be attached to the end of a CCTV lens to prevent light interference when using red light.

| Model     | Product type                                 | Size                          |
|-----------|--|-------------------------------|
| ML-R64-25 | Sharp-cut filter for mounting to end of lens | Filter screw: M25.5 P0.5 lens |
| ML-R64-27 | Sharp-cut filter for mounting to end of lens | Filter screw: M27 P0.5 lens   |
| ML-R64-30 | Sharp-cut filter for mounting to end of lens | Filter screw: M30.5 P0.5 lens |

## Cables

| Model      | Cable Diagram | Product type                             | Applications                             | Length |
|------------|---------------|--|--|--------|
| M-RCB401L  | A             | 4-pin type extension cable               | •For all lights (except the MCEP series) | 1m     |
| M-RCB402L  | A             | 4-pin type extension cable               |  | 2m     |
| M-RCB403L  | A             | 4-pin type extension cable               |  | 3m     |
| M-RCB301L  | B             | 3-pin type extension cable               | •For the MCEP series                     | 1m     |
| M-RCB302L  | B             | 3-pin type extension cable               |  | 2m     |
| M-RCB303L  | B             | 3-pin type extension cable               |  | 3m     |
| M-XS402C   | C             | Pin type extension cable                 | •For the MSPP series                     | 2m     |
| M-XS405C   | C             | Pin type extension cable                 |  | 5m     |
| M-XS410C   | C             | Pin type extension cable                 |  | 10m    |
| M-RCB301XS | D             | Pin type MSPP-MLEP-A070 conversion cable | •For the MSPP series and MLEP-A070       | 1m     |
| M-RCB001L  | E             | 2-pin type extension cable               | •For power sources for built-in fans     | 1m     |
| M-RCB002L  | E             | 2-pin type extension cable               |  | 2m     |
| M-RCB003L  | E             | 2-pin type extension cable               |  | 3m     |
| MC-EXC-02  | —             | Cable for DSUB15 pin external control    | —  | 2m     |
| MC-EXC-07  | —             | Cable for DSUB15 pin external control    | —  | —      |

#### Cable Diagrams







This document provides information mainly for selecting suitable models. Please read the Instruction Sheet carefully for information that the user must understand and accept before purchase, including information on warranty, limitations of liability, and precautions.

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