RusAutomation

Qlight

Multiple Color LED Steady Signal Light
QMCL

IP65 | -30~+50℃ | BUZZER | 80dB | NPN | PNP | RoHS
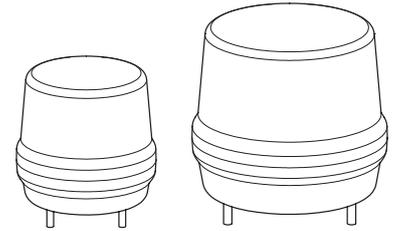
Thank you for purchasing Qlight's products. Please read this user manual carefully prior to installation and operation to ensure safe and correct use.

⚠ Precautions for Safety

Failure to follow the instructions below may cause a loss of life or serious physical injury.

1. During wiring or maintenance, please completely turn off the power of the product. (Failure to follow this may lead to an electric shock.)
2. Do not install the product in locations that subjects it to excessive dust or water other than the conditions designated by the IP protection ratings indicated for each product. (Failure to follow these instructions may cause a fire to the product, electric shock, physical injury, malfunction or damage to the product.)
3. Do not alter or repair this product. If maintenance or repair service is required, please contact your local Qlight contact point. (Failure to follow these instructions may lead to fire, electric shock, or product damage.)
4. Please apply the correct voltage to the product. (Failure to follow these instructions may lead to fire, electric shock, or product damage.)
5. When the product is applied to a condition that may impact lives or property, please make sure to have a double safety device. (Failure to follow this may cause damage to property, fire, electric shock and loss of life.)

⚠ Precautions for Correct Use

Failure to follow the proper instructions may cause damage to property, the product, or malfunction of the product that would void the warranty.

1. Please remove any objects that can interrupt ventilation around the product.
2. Please turn off the power of the product immediately if it fails to operate properly.
3. Carefully wire the product according to each product's specification.
4. Please be careful in preventing chemicals such as thinner, benzene, etc. in contact with the surface of the product.
5. Do not apply excessive force/impact to the product.
6. Failure to follow any of the instructions above may cause malfunction or damage to the product, fire, and electric shock.

Ordering Specifications

QMCL80	-	BZ	-	24
[Model number]		[Buzzer]		[Voltage]

- QMCL60
- QMCL80
- QMCL100
- QMCL125

- (Blank)
  - No buzzer type
- BZ
  - Built-in buzzer type
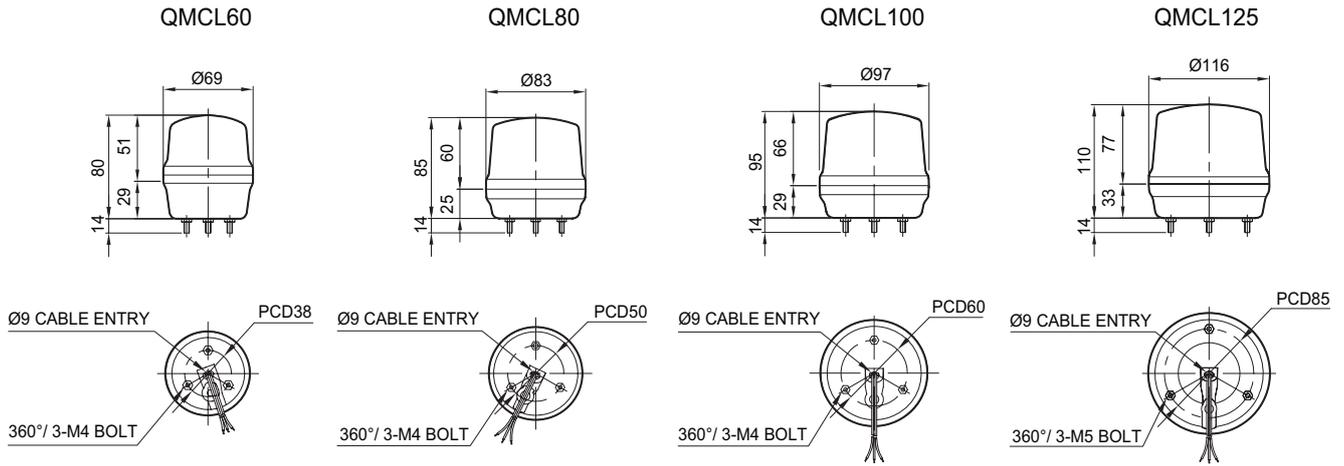
- 12-DC12V
- 24-DC24V

Product Specifications

Model number	Voltage	Current	Certificate	Weight	Color
QMCL60	DC12V	0.120A		0.12kg	
	DC24V	0.060A			
QMCL80	DC12V	0.120A		0.17kg	
	DC24V	0.060A	CE		7Color
QMCL100	DC12V	0.240A		0.24kg	
	DC24V	0.120A			
QMCL125	DC12V	0.240A		0.31kg	
	DC24V	0.120A			

• Buzzer layer current

Model number	Voltage	AC/DC12V	AC/DC24V
QMCL60 QMCL80	Signal line current	0.120A	0.060A
	Buzzer layer current	0.020A	0.020A
QMCL100 QMCL125	Signal line current	0.240A	0.120A
	Buzzer layer current	0.020A	0.020A

• **Protection rating : IP65**
• **Ambient operating temperature : -30°C to +50°C**

Dimensions

QMCL60

Ø69
80
51
29
14

Ø9 CABLE ENTRY   PCD38

360°/ 3-M4 BOLT

QMCL80

Ø83
85
60
25
14

Ø9 CABLE ENTRY   PCD50

360°/ 3-M4 BOLT

QMCL100

Ø97
95
66
29
14

Ø9 CABLE ENTRY   PCD60

360°/ 3-M4 BOLT

QMCL125

Ø116
110
77
33
14

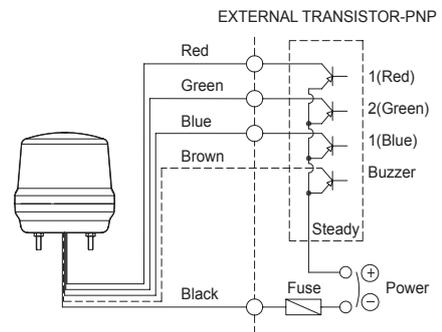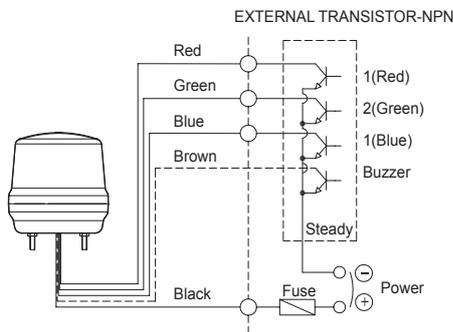Ø9 CABLE ENTRY   PCD85

360°/ 3-M5 BOLT

Wiring Instructions

• QMCL Series can be wired with either external contact or transistor.
• When using a transistor, please choose between the NPN transistor or PNP transistor which best matches the voltage and product type, then connect them correctly according to the wiring diagram below.

External Contact

Red — 1(Red)
Green — 2(Green)
Blue — 1(Blue)
Brown — Buzzer
Black — Fuse — Power
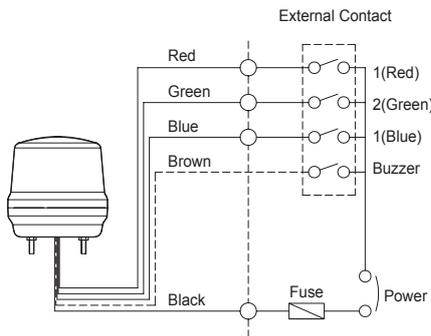
• Wiring Configuration for Signal Color

No.	Signal color	Wiring configuration
1	RED	1(RED)
2	GREEN	2(GREEN)
3	BLUE	3(BLUE)
4	AMBER	1(RED)+2(GREEN)
5	CYAN	2(GREEN)+3(BLUE)
6	PURPLE	1(RED)+3(BLUE)
7	WHITE	1(RED)+2(GREEN)+3(BLUE)

EXTERNAL TRANSISTOR-NPN

Red — 1(Red)
Green — 2(Green)
Blue — 1(Blue)
Brown — Buzzer
Steady
Black — Fuse — Power − +

EXTERNAL TRANSISTOR-PNP

Red — 1(Red)
Green — 2(Green)
Blue — 1(Blue)
Brown — Buzzer
Steady
Black — Fuse — Power + −

• DC type cable specification : External power/ signal line standard - UL1007 AWG22(0.3sq) 400mm
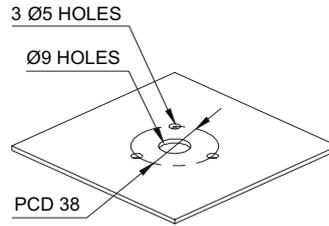• DC type products can be wired regardless of polarity.

Parts Definition and Installation

Lens(PC)

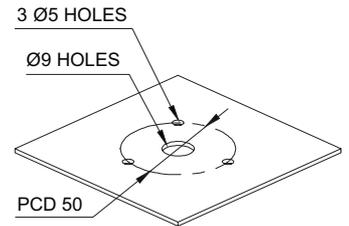LED unit

Housing(ABS)
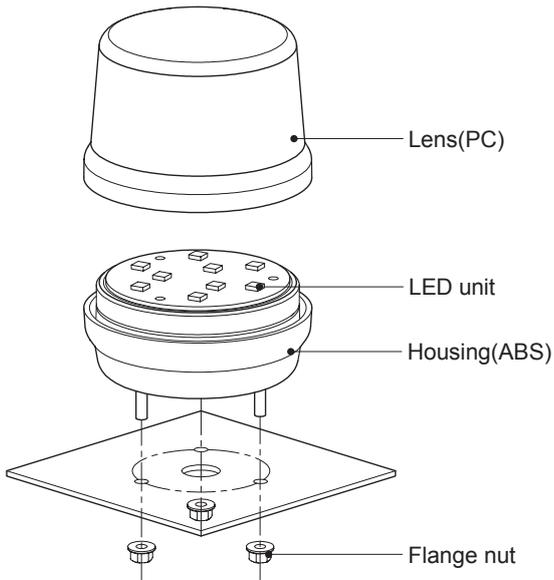
Flange nut

- First, remove the flange nuts from bolts and place the product through the mounting surface holes.
- Fasten the flange nuts on the opposite side of the mounting surface until the product is tightened securely.
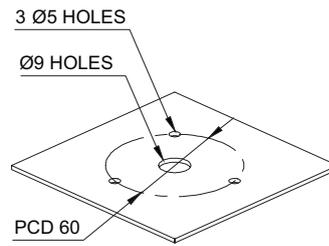
Mounting Hole Specifications

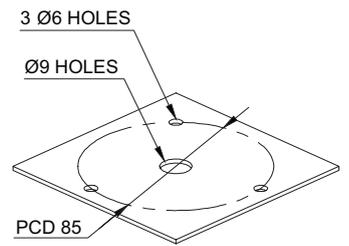- Machine holes on the mounting surface referring to the diagram below.

3 Ø5 HOLES
Ø9 HOLES
PCD 38

QMCL60

3 Ø5 HOLES
Ø9 HOLES
PCD 50

QMCL80

3 Ø5 HOLES
Ø9 HOLES
PCD 60

QMCL100

3 Ø6 HOLES
Ø9 HOLES
PCD 85

QMCL125

Installation Environment and Protection Rating

- This product is designed for use with protection rating of IP65.
- If the product is installed in locations that subject it to excessive dust or water other than the designated IP protection rating indicated(IP65), it may cause malfunction or damage to the product.
- In case of outdoor applications, install the product in the upright position. Do not install the product horizontal or upside-down positions where water can potentially penetrate into the product and impact it's operation.
- For further information, please visit our website (http://www.qlight.com).

Mounting Accessories (Sold Separately)

• Please refer to the dimensions below for installation of mounting brackets.

	Dimensions	
QMCL60	Ø12 PCD30~40 360°/3-Ø5 HOLES 4-Ø5 HOLES Ø12 CABLE ENTRY 66 36 40 20 35 60 TWS45	Ø12 PCD30~40 360°/3-Ø5 HOLES 4-Ø5 HOLES Ø12 CABLE ENTRY 66 36 40 20 35 60 TWA45
QMCL80	Ø12 PCD40~50 PCD40 360°/3-Ø5 HOLES 4-Ø5 HOLES Ø12 CABLE ENTRY 66 36 50 25 50 84 TWS80	Ø12 PCD40~50 PCD40 360°/3-Ø5 HOLES 4-Ø5 HOLES Ø12 CABLE ENTRY 66 36 50 25 50 84 TWA80
QMCL100 QMCL125	Ø22 PCD85 PCD60~70 PCD50 360°/3-Ø5 HOLES 6-Ø5.5 HOLES 4-Ø5.5 HOLES Ø10 CABLE ENTRY 115 11.5 65 26.5 70 90 SWP125	Ø22 PCD85 PCD60~70 PCD50 360°/3-Ø5 HOLES 6-Ø5.5 HOLES 4-Ø5.5 HOLES Ø10 CABLE ENTRY 115 11.5 65 26.5 70 90 SWM125