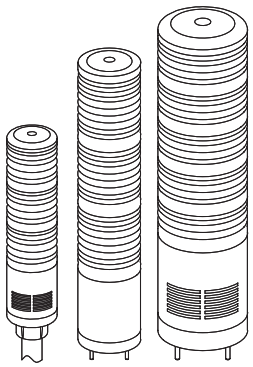
LED Steady/Flashing Tower Lights

ST45/ ST56/ ST80



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.

Please scan the QR code for more detailed product information.

www.qlight.com

Ordering Specifications

ST45/ 56ML - 3 - 110/220 - RAG

[Model number]
- ST45/ 56ML
- ST45/ 56ML-BZ
- ST45/ 56ML-WS
- ST45/ 56ML-WM
- ST45/ 56ML-WA
- ST45/ 56MLF
- ST45/ 56MLF-BZ
- ST45/ 56MLF-WS
- ST45/ 56MLF-WM
- ST45/ 56MLF-WA

[Layer count]
- 1-1 Layer
- 2-2Layers
- 3-3 Layers
- 4-4 Layers
- 5-5 Layers

[Voltage]
- 12-DC12V
- 24-DC24V
- 110-AC110V
- 220-AC220V

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

ST45/ 56L - 3 - 110/220 - RAG - LW18

[Model number]
- ST45/ 56L
- ST45/ 56L-BZ
- ST45/ 56L-WS
- ST45/ 56L-WM
- ST45/ 56L-WA
- ST45/ 56LF
- ST45/ 56LF-BZ
- ST45/ 56LF-WS
- ST45/ 56LF-WM
- ST45/ 56LF-WA

[Layer count]
- 1-1 Layer
- 2-2Layers
- 3-3 Layers
- 4-4 Layers
- 5-5 Layers

[Voltage]
- 12-DC12V
- 24-DC24V
- 110-AC110V
- 220-AC220V

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

[Mounting option]
- None
  - Standard type
- Mounting type
  - LB18 - LW18
  - QZ18 - SZ18
  - QL18 - SL18
  - SLB370

ST80ML - 3 - 110/220 - RAG

[Model number]
- ST80ML
- ST80ML-BZ
- ST80ML-WS
- ST80ML-WM
- ST80ML-WA
- ST80MLF
- ST80MLF-BZ
- ST80MLF-WS
- ST80MLF-WM
- ST80MLF-WA

[Layer count]
- 1-1 Layer
- 2-2Layers
- 3-3 Layers
- 4-4 Layers
- 5-5 Layers

[Voltage]
- 12-DC12V
- 24-DC24V
- 110-AC110V
- 220-AC220V

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

ST80L - 3 - 110/220 - RAG - LW24

[Model number]
- ST80L
- ST80L-BZ
- ST80L-WS
- ST80L-WM
- ST80L-WA
- ST80LF
- ST80LF-BZ
- ST80LF-WS
- ST80LF-WM
- ST80LF-WA

[Layer count]
- 1-1 Layer
- 2-2Layers
- 3-3 Layers
- 4-4 Layers
- 5-5 Layers

[Voltage]
- 12-DC12V
- 24-DC24V
- 110-AC110V
- 220-AC220V

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

[Mounting option]
- None
  - Standard type
- Mounting type
  - LB24 - LW24
  - QZ24 - SZ24
  - QL24 - SL24

ST56MEL - 3 - 110/220 - RAG

[Model number]
- ST56MEL
- ST56MEL-BZ
- ST56MEL-WS
- ST56MEL-WM
- ST56MEL-WA
- ST56MELF
- ST56MELF-BZ
- ST56MELF-WS
- ST56MELF-WM
- ST56MELF-WA

[Layer count]
- 1-1 Layer
- 2-2Layers
- 3-3 Layers
- 4-4 Layers
- 5-5 Layers

[Voltage]
- 12-DC12V
- 24-DC24V
- 110-AC110V
- 220-AC220V

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

ST56EL - 3 - 110/220 - RAG - LW18

[Model number]
- ST56EL
- ST56EL-BZ
- ST56EL-WS
- ST56EL-WM
- ST56EL-WA
- ST56ELF
- ST56ELF-BZ
- ST56ELF-WS
- ST56ELF-WM
- ST56ELF-WA

[Layer count]
- 1-1 Layer
- 2-2Layers
- 3-3 Layers
- 4-4 Layers
- 5-5 Layers

[Voltage]
- 12-DC12V
- 24-DC24V
- 110-AC110V
- 220-AC220V

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

[Mounting option]
- None
  - Standard type
- Mounting type
  - LB18 - LW18
  - QZ18 - SZ18
  - QL18 - SL18
  - SLB370

ST80MEL - 3 - 110/220 - RAG

[Model number]
- ST80MEL
- ST80MEL-BZ
- ST80MEL-WS
- ST80MEL-WM
- ST80MEL-WA
- ST80MELF
- ST80MELF-BZ
- ST80MELF-WS
- ST80MELF-WM
- ST80MELF-WA

[Layer count]
- 1-1 Layer
- 2-2Layers
- 3-3 Layers
- 4-4 Layers
- 5-5 Layers

[Voltage]
- 12-DC12V
- 24-DC24V
- 110-AC110V
- 220-AC220V

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

ST80EL - 3 - 110/220 - RAG - LW24

[Model number]
- ST80EL
- ST80EL-BZ
- ST80EL-WS
- ST80EL-WM
- ST80EL-WA
- ST80ELF
- ST80ELF-BZ
- ST80ELF-WS
- ST80ELF-WM
- ST80ELF-WA

[Layer count]
- 1-1 Layer
- 2-2Layers
- 3-3 Layers
- 4-4 Layers
- 5-5 Layers

[Voltage]
- 12-DC12V
- 24-DC24V
- 110-AC110V
- 220-AC220V

[Color]
R-Red
A-Amber
G-Green
B-Blue
W-White

[Mounting option]
- None
  - Standard type
- Mounting type
  - LB24 - LW24
  - QZ24 - SZ24
  - QL24 - SL24

Product Specifications

• ST45ML

Model number	Layer count	Voltage	Certificate	Weight	Color
ST45ML ST45ML-BZ ST45ML-WS ST45ML-WM ST45ML-WA ST45MLF ST45MLF-BZ ST45MLF-WS ST45MLF-WM ST45MLF-WA	1	AC/DC12V AC/DC24V AC110V AC220V	CE UL	0.19kg 0.19kg 0.25kg 0.25kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V		0.21kg 0.21kg 0.29kg 0.29kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V		0.25kg 0.25kg 0.34kg 0.34kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V		0.30kg 0.30kg 0.38kg 0.38kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V		0.34kg 0.34kg 0.42kg 0.42kg	R-Red A-Amber G-Green B-Blue W-White

• ST45L

Model number	Layer count	Voltage	Certificate	Weight	Color
ST45L ST45L-BZ ST45L-WS ST45L-WM ST45L-WA ST45LF ST45LF-BZ ST45LF-WS ST45LF-WM ST45LF-WA	1	AC/DC12V AC/DC24V AC110V AC220V	CE UL	0.35kg 0.35kg 0.45kg 0.45kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V		0.39kg 0.39kg 0.49kg 0.49kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V		0.44kg 0.44kg 0.54kg 0.54kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V		0.48kg 0.48kg 0.58kg 0.58kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V		0.52kg 0.52kg 0.62kg 0.62kg	R-Red A-Amber G-Green B-Blue W-White

• ST56MEL

Model number	Layer count	Voltage	Certificate	Weight	Color
ST56MEL ST56MEL-BZ ST56MEL-WS ST56MEL-WM ST56MEL-WA ST56MELF ST56MELF-BZ ST56MELF-WS ST56MELF-WM ST56MELF-WA	1	AC/DC12V AC/DC24V AC110V AC220V	CE UL	0.26kg 0.26kg 0.42kg 0.42kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V		0.32kg 0.32kg 0.48kg 0.48kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V		0.37kg 0.37kg 0.54kg 0.54kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V		0.43kg 0.43kg 0.59kg 0.59kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V		0.49kg 0.49kg 0.65kg 0.65kg	R-Red A-Amber G-Green B-Blue W-White

• ST56EL

Model number	Layer count	Voltage	Certificate	Weight	Color
ST56EL ST56EL-BZ ST56EL-WS ST56EL-WM ST56EL-WA ST56ELF ST56ELF-BZ ST56ELF-WS ST56ELF-WM ST56ELF-WA	1	AC/DC12V AC/DC24V AC110V AC220V	CE UL	0.41kg 0.41kg 0.57kg 0.57kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V		0.47kg 0.47kg 0.62kg 0.62kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V		0.52kg 0.52kg 0.68kg 0.68kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V		0.58kg 0.58kg 0.74kg 0.74kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V		0.63kg 0.63kg 0.75kg 0.75kg	R-Red A-Amber G-Green B-Blue W-White

• ST56ML

Model number	Layer count	Voltage	Certificate	Weight	Color
ST56ML ST56ML-BZ ST56ML-WS ST56ML-WM ST56ML-WA ST56MLF ST56MLF-BZ ST56MLF-WS ST56MLF-WM ST56MLF-WA	1	AC/DC12V AC/DC24V AC110V AC220V	CE UL	0.22kg 0.22kg 0.45kg 0.45kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V		0.30kg 0.30kg 0.53kg 0.53kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V		0.38kg 0.38kg 0.61kg 0.61kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V		0.46kg 0.46kg 0.70kg 0.70kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V		0.54kg 0.54kg 0.78kg 0.78kg	R-Red A-Amber G-Green B-Blue W-White

• ST56L

Model number	Layer count	Voltage	Certificate	Weight	Color
ST56L ST56L-BZ ST56L-WS ST56L-WM ST56L-WA ST56LF ST56LF-BZ ST56LF-WS ST56LF-WM ST56LF-WA	1	AC/DC12V AC/DC24V AC110V AC220V	CE UL	0.44kg 0.44kg 0.60kg 0.60kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V		0.52kg 0.52kg 0.68kg 0.68kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V		0.60kg 0.60kg 0.76kg 0.76kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V		0.68kg 0.68kg 0.84kg 0.84kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V		0.77kg 0.77kg 0.93kg 0.93kg	R-Red A-Amber G-Green B-Blue W-White

※ CE Compliant: DC12V, DC24V

※ UL Listed: DC24V(Except sound types)

Product Specifications

• ST80MEL

Model number	Layer count	Voltage	Certificate	Weight	Color
ST80MEL ST80MEL-BZ ST80MEL-WS ST80MEL-WM ST80MEL-WA ST80MELF ST80MELF-BZ ST80MELF-WS ST80MELF-WM ST80MELF-WA	1	AC/DC12V AC/DC24V AC110V AC220V	CE UL	0.36kg 0.36kg 0.59kg 0.59kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V		0.45kg 0.45kg 0.68kg 0.68kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V		0.55kg 0.55kg 0.76kg 0.76kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V		0.64kg 0.64kg 0.87kg 0.87kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V		0.73kg 0.73kg 0.96kg 0.96kg	R-Red A-Amber G-Green B-Blue W-White

• ST80EL

Model number	Layer count	Voltage	Certificate	Weight	Color
ST80EL ST80EL-BZ ST80EL-WS ST80EL-WM ST80EL-WA ST80ELF ST80ELF-BZ ST80ELF-WS ST80ELF-WM ST80ELF-WA	1	AC/DC12V AC/DC24V AC110V AC220V	CE UL	0.58kg 0.58kg 0.81kg 0.81kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V		0.67kg 0.67kg 0.91kg 0.91kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V		0.77kg 0.77kg 1.00kg 1.00kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V		0.86kg 0.86kg 1.09kg 1.09kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V		0.95kg 0.95kg 1.19kg 1.19kg	R-Red A-Amber G-Green B-Blue W-White

• ST80ML

Model number	Layer count	Voltage	Certificate	Weight	Color
ST80ML ST80ML-BZ ST80ML-WS ST80ML-WM ST80ML-WA ST80MLF ST80MLF-BZ ST80MLF-WS ST80MLF-WM ST80MLF-WA	1	AC/DC12V AC/DC24V AC110V AC220V	CE UL	0.40kg 0.40kg 0.64kg 0.64kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V		0.54kg 0.54kg 0.78kg 0.78kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V		0.68kg 0.68kg 0.92kg 0.92kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V		0.83kg 0.83kg 1.06kg 1.06kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V		0.97kg 0.97kg 1.20kg 1.20kg	R-Red A-Amber G-Green B-Blue W-White

• ST80L

Model number	Layer count	Voltage	Certificate	Weight	Color
ST80L ST80L-BZ ST80L-WS ST80L-WM ST80L-WA ST80LF ST80LF-BZ ST80LF-WS ST80LF-WM ST80LF-WA	1	AC/DC12V AC/DC24V AC110V AC220V	CE UL	0.62kg 0.62kg 0.86kg 0.86kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V		0.77kg 0.77kg 1.00kg 1.00kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V		0.91kg 0.91kg 1.14kg 1.14kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V		1.05kg 1.05kg 1.29kg 1.29kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V		1.19kg 1.19kg 1.14kg 1.14kg	R-Red A-Amber G-Green B-Blue W-White

※ CE Compliant: DC12V, DC24V(Except sound types)
※ UL Listed: DC24V(Except sound types)

• Light source / buzzer current (based on 1 layer)

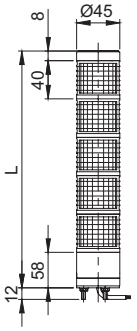
Model number	Current	AC/DC12V	AC/DC24V	AC110V	AC220V
ST45ML ST45L	Light source current(1 layer)	40mA	55mA	45mA	30mA
	buzzer current	40mA	75mA	50mA	35mA
	Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA
ST56MEL ST56EL	Light source current(1 layer)	60mA	60mA	50mA	40mA
	buzzer current	40mA	75mA	50mA	40mA
	Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA
ST56ML ST56L	Light source current(1 layer)	120mA	95mA	70mA	55mA
	buzzer current	40mA	75mA	50mA	40mA
	Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA
ST80MEL ST80EL	Light source current(1 layer)	80mA	60mA	50mA	40mA
	buzzer current	40mA	75mA	50mA	40mA
	Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA
ST80ML ST80L	Light source current(1 layer)	160mA	95mA	70mA	55mA
	buzzer current	40mA	75mA	50mA	40mA
	Signal sound current	200mA(DC12V)	135mA(DC24V)	50mA	35mA

Dimensions

(Units : mm)

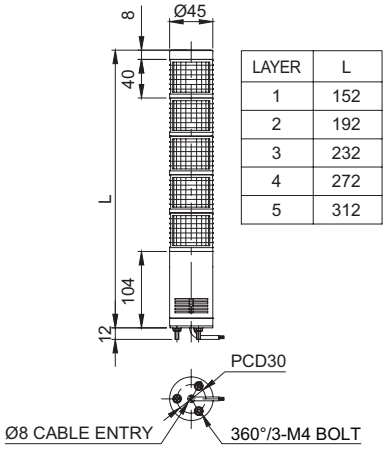
• ST45ML/ ST45L

ST45ML : AC/DC
ST45ML-BZ : DC
ST45MLF : DC



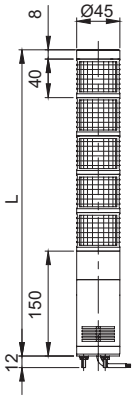
LAYER	L
1	106
2	146
3	186
4	226
5	266

ST45ML-BZ : AC
ST45MLF : AC
ST45MLF-BZ : DC



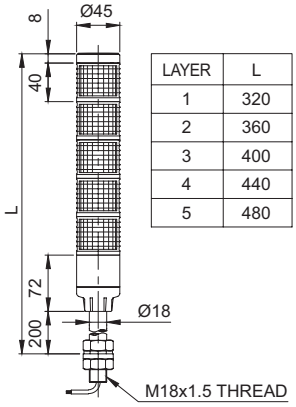
LAYER	L
1	152
2	192
3	232
4	272
5	312

ST45MLF-BZ : AC



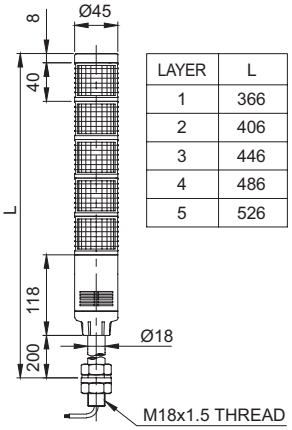
LAYER	L
1	198
2	238
3	278
4	318
5	358

ST45L : AC/DC
ST45L-BZ : DC
ST45LF : DC



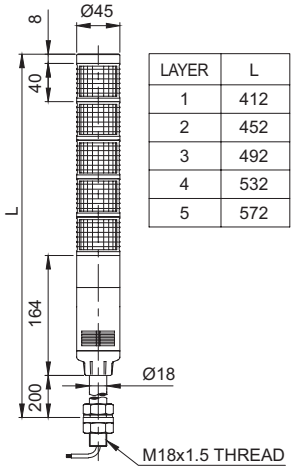
LAYER	L
1	320
2	360
3	400
4	440
5	480

ST45L-BZ : AC
ST45LF : AC
ST45LF-BZ : DC



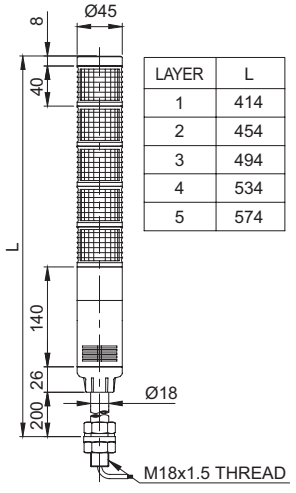
LAYER	L
1	366
2	406
3	446
4	486
5	526

ST45LF-BZ : AC



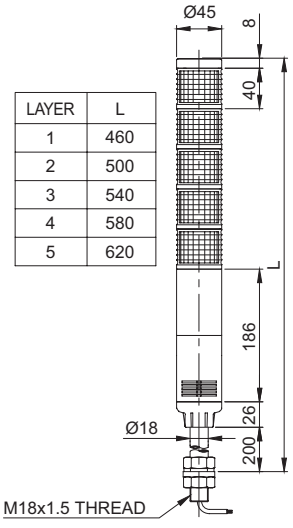
LAYER	L
1	412
2	452
3	492
4	532
5	572

ST45L-W□ : DC
ST45LF-W□ : DC



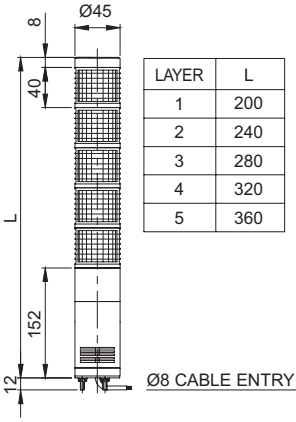
LAYER	L
1	414
2	454
3	494
4	534
5	574

ST45L-W□ : AC
ST45LF-W□ : AC



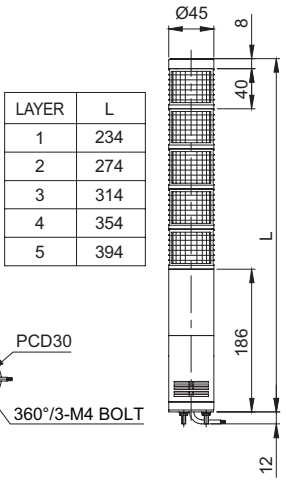
LAYER	L
1	460
2	500
3	540
4	580
5	620

ST45ML-W□ : DC
ST45MLF-W□ : DC



LAYER	L
1	200
2	240
3	280
4	320
5	360

ST45ML-W□ : AC
ST45MLF-W□ : AC



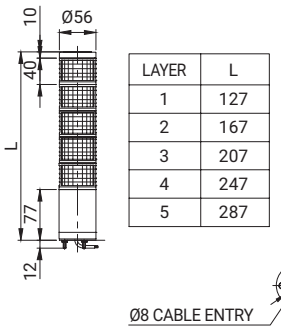
LAYER	L
1	234
2	274
3	314
4	354
5	394

Dimensions

(Units : mm)

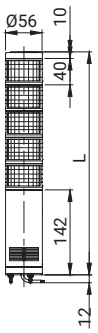
• ST56MEL/ ST56EL

ST56MEL : AC/DC
ST56MEL-BZ : DC
ST56MELF : DC

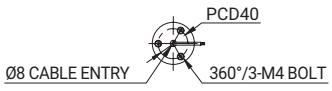


LAYER	L
1	127
2	167
3	207
4	247
5	287

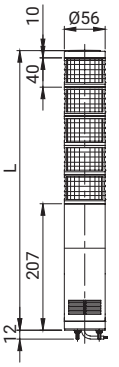
ST56MEL-BZ : AC
ST56MELF-BZ : AC/DC
ST56MELF : AC



LAYER	L
1	192
2	232
3	272
4	312
5	352

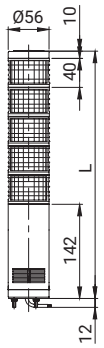


ST56MEL-W□ : AC
ST56MELF-W□ : AC

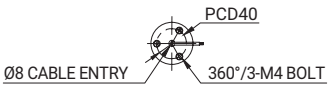


LAYER	L
1	257
2	297
3	337
4	377
5	417

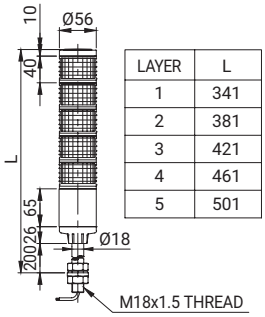
ST56MEL-W□ : DC
ST56MELF-W□ : DC



LAYER	L
1	192
2	232
3	272
4	312
5	352

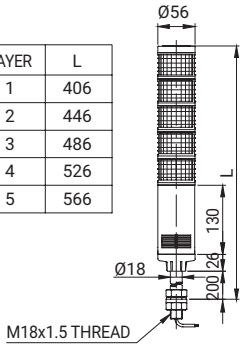


ST56EL : AC/DC
ST56EL-BZ : DC
ST56ELF : DC



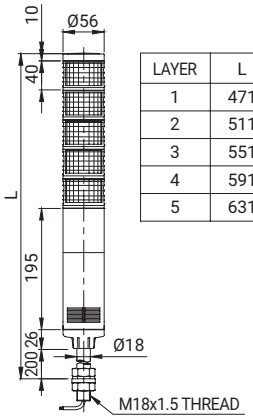
LAYER	L
1	341
2	381
3	421
4	461
5	501

ST56EL-BZ : AC
ST56ELF-BZ : AC/DC
ST56ELF : AC



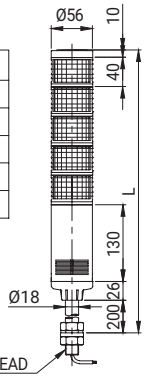
LAYER	L
1	406
2	446
3	486
4	526
5	566

ST56EL-W□ : AC
ST56ELF-W□ : AC



LAYER	L
1	471
2	511
3	551
4	591
5	631

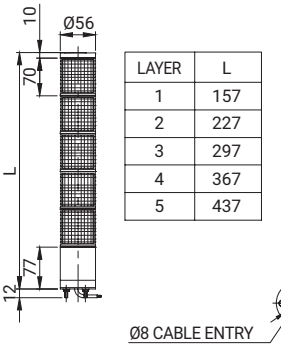
ST56EL-W□ : DC
ST56ELF-W□ : DC



LAYER	L
1	406
2	446
3	486
4	526
5	566

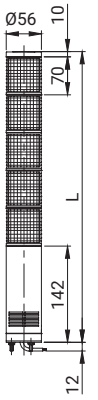
• ST56ML/ ST56L

ST56ML : AC/DC
ST56ML-BZ : DC

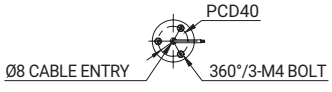


LAYER	L
1	157
2	227
3	297
4	367
5	437

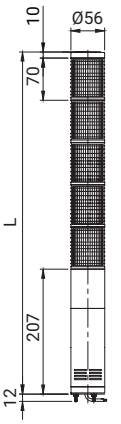
ST56ML-BZ : AC
ST56MLF-BZ : AC/DC



LAYER	L
1	222
2	292
3	362
4	432
5	502

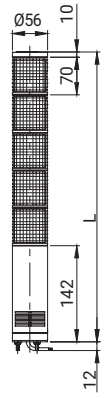


ST56ML-W□ : AC
ST56MLF-W□ : AC

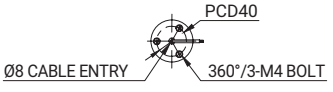


LAYER	L
1	287
2	357
3	427
4	497
5	567

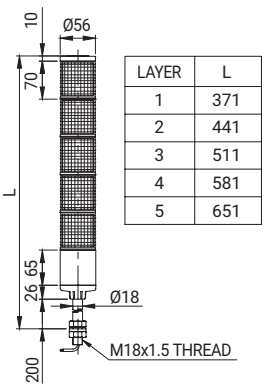
ST56ML-W□ : DC
ST56MLF-W□ : DC



LAYER	L
1	222
2	292
3	362
4	432
5	502

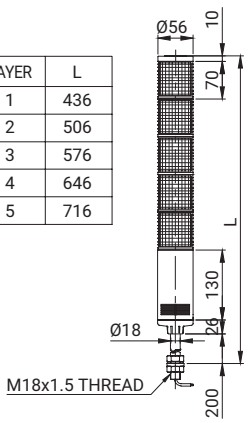


ST56L : AC/DC
ST56L-BZ : DC
ST56LF : DC



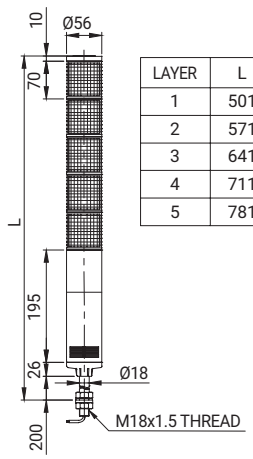
LAYER	L
1	371
2	441
3	511
4	581
5	651

ST56L-BZ : AC
ST56LF-BZ : AC/DC
ST56LF : AC



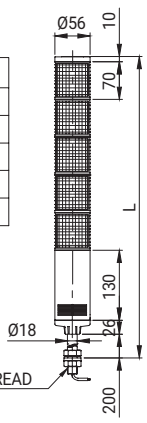
LAYER	L
1	436
2	506
3	576
4	646
5	716

ST56L-W□ : AC
ST56LF-W□ : AC



LAYER	L
1	501
2	571
3	641
4	711
5	781

ST56L-W□ : DC
ST56LF-W□ : DC



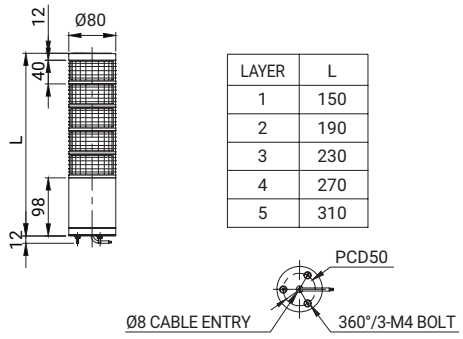
LAYER	L
1	436
2	506
3	576
4	646
5	716

Dimensions

(Units : mm)

• ST80MEL/ ST80EL

ST80MEL : AC/DC
ST80MELF : AC/DC

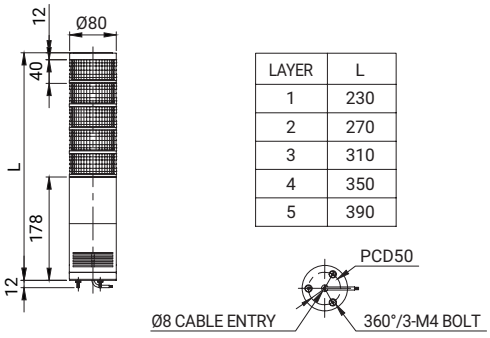


LAYER	L
1	150
2	190
3	230
4	270
5	310

ST80MEL-BZ : AC/DC
ST80MELF-BZ : AC/DC

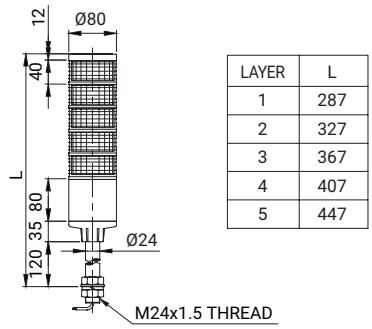


ST80MEL-W□
ST80MELF-W□



LAYER	L
1	230
2	270
3	310
4	350
5	390

ST80EL : AC/DC
ST80ELF : AC/DC

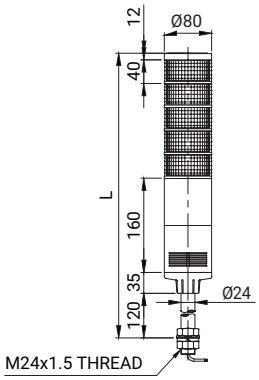


LAYER	L
1	287
2	327
3	367
4	407
5	447

ST80EL-BZ : AC/DC
ST80ELF-BZ : AC/DC



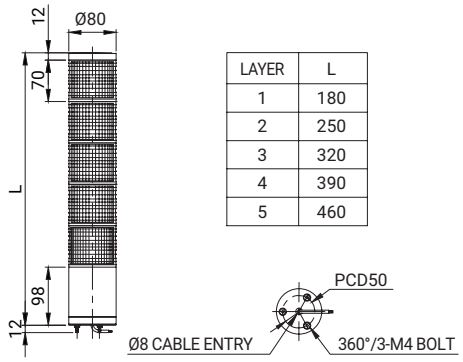
ST80EL-W□
ST80ELF-W□



LAYER	L
1	367
2	407
3	447
4	487
5	527

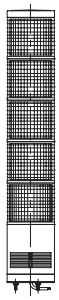
• ST80ML/ ST80L

ST80ML : AC/DC
ST80MLF : AC/DC

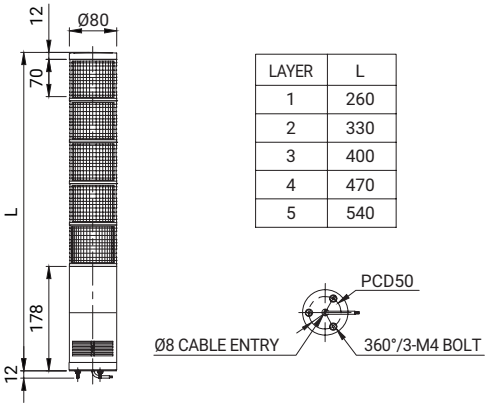


LAYER	L
1	180
2	250
3	320
4	390
5	460

ST80ML-BZ : AC/DC
ST80MLF-BZ : AC/DC

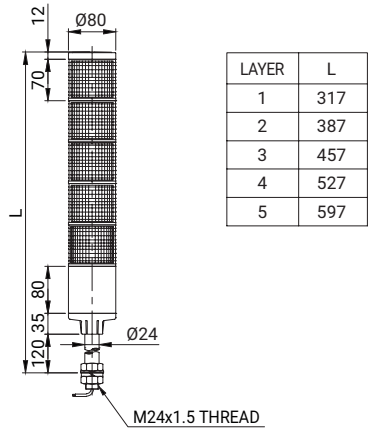


ST80ML-W□
ST80MLF-W□



LAYER	L
1	260
2	330
3	400
4	470
5	540

ST80L : AC/DC
ST80LF : AC/DC

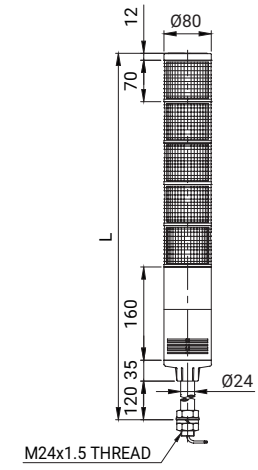


LAYER	L
1	317
2	387
3	457
4	527
5	597

ST80L-BZ : AC/DC
ST80LF-BZ : AC/DC



ST80L-W□
ST80LF-W□

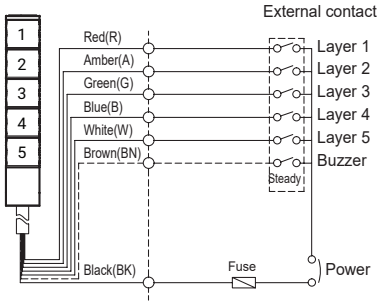
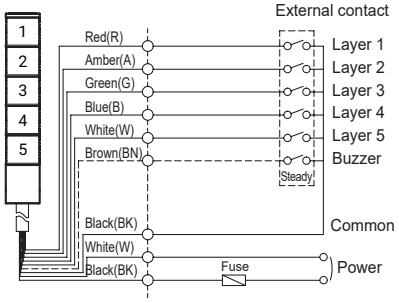
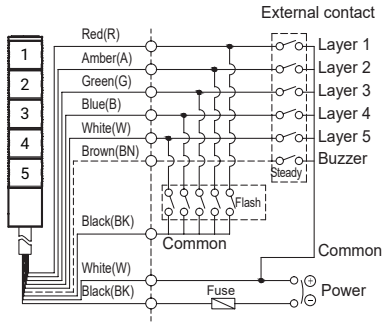
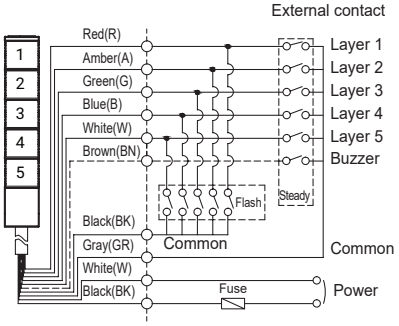
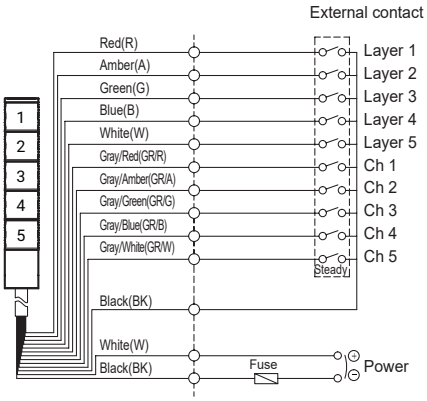
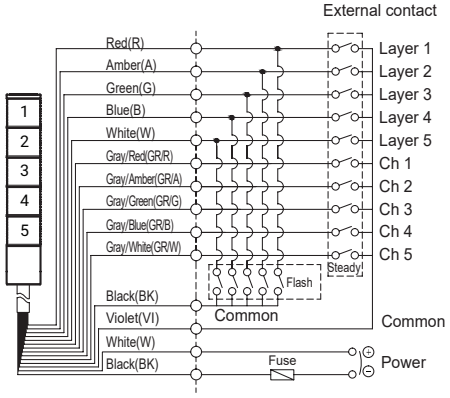


LAYER	L
1	397
2	467
3	537
4	607
5	677

Wiring Instructions

■ Wiring using external contact

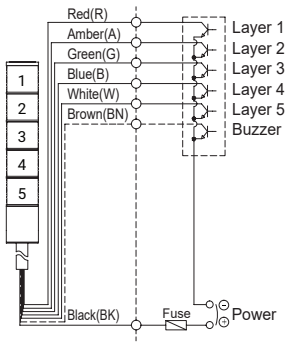
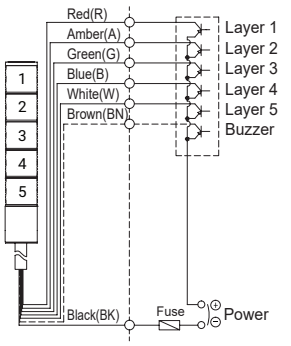
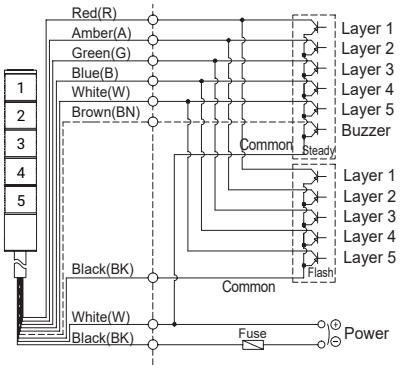
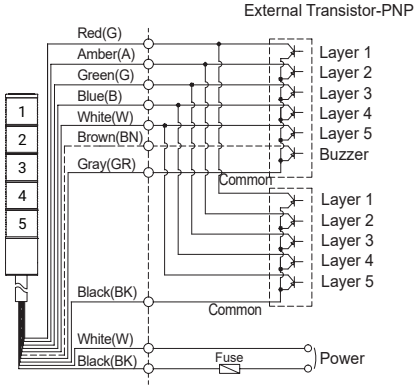
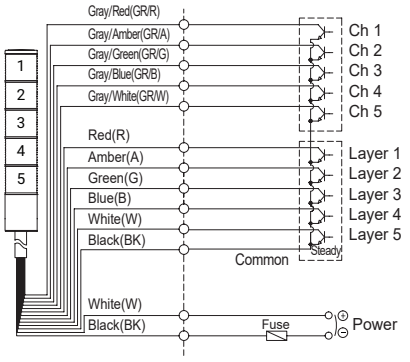
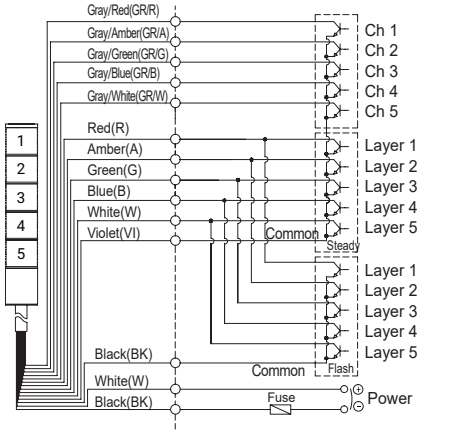
• In case of wiring with external contacts, refer to the wiring diagrams below according to your product's type and voltage setting.
• For AC each-layer voltage supply type products, please connect them in the same way as the DC steady-on type.

	Wiring diagrams		Wiring diagrams
DC Steady ST45ML ST45L ST56MEL ST56ML ST56EL ST56L ST80MEL ST80ML ST80EL ST80L		AC Steady ST45ML ST45L ST56MEL ST56ML ST56EL ST56L ST80MEL ST80ML ST80EL ST80L	
DC Steady/Flashing ST45MLF ST45LF ST56MELF ST56MLF ST56ELF ST56LF ST80MELF ST80MLF ST80ELF ST80LF		AC Steady/Flashing ST45MLF ST45LF ST56MELF ST56MLF ST56ELF ST56LF ST80MELF ST80MLF ST80ELF ST80LF	
DC/AC Steady Built-in Signal Sound ST45ML ST45L ST56MEL ST56ML ST56EL ST56L ST80MEL ST80ML ST80EL ST80L	 • ST□□M(E)L - WS/ WM/ WA type same wiring instruction • ST□□(E)L - WS/ WM/ WA type same wiring instruction • ST□□ L └ Lens diameter 45(45mm) : ST45L 56(56mm) : ST56L 80(80mm) : ST80L	DC/AC Steady/Flashing Built-in Signal Sound ST45MLF ST45LF ST56MELF ST56MLF ST56ELF ST56LF ST80MELF ST80MLF ST80ELF ST80LF	 • ST□□M(E)LF - WS/ WM/ WA type same wiring instruction • ST□□(E)LF - WS/ WM/ WA type same wiring instruction • ST□□ LF └ Lens diameter 45(45mm) : ST45LF 56(56mm) : ST56LF 80(80mm) : ST80LF

• DC steady type cable specification : External power/ signal line - UL1007 AWG22(0.3sq) 400mm.
• AC steady, AC/DC steady/flashing type cable specification : External power line - UL1015 AWG18(0.75sq) × 2C 400mm,
External signal line - UL1007 AWG22(0.3sq) 400mm

■ Wiring using transistor

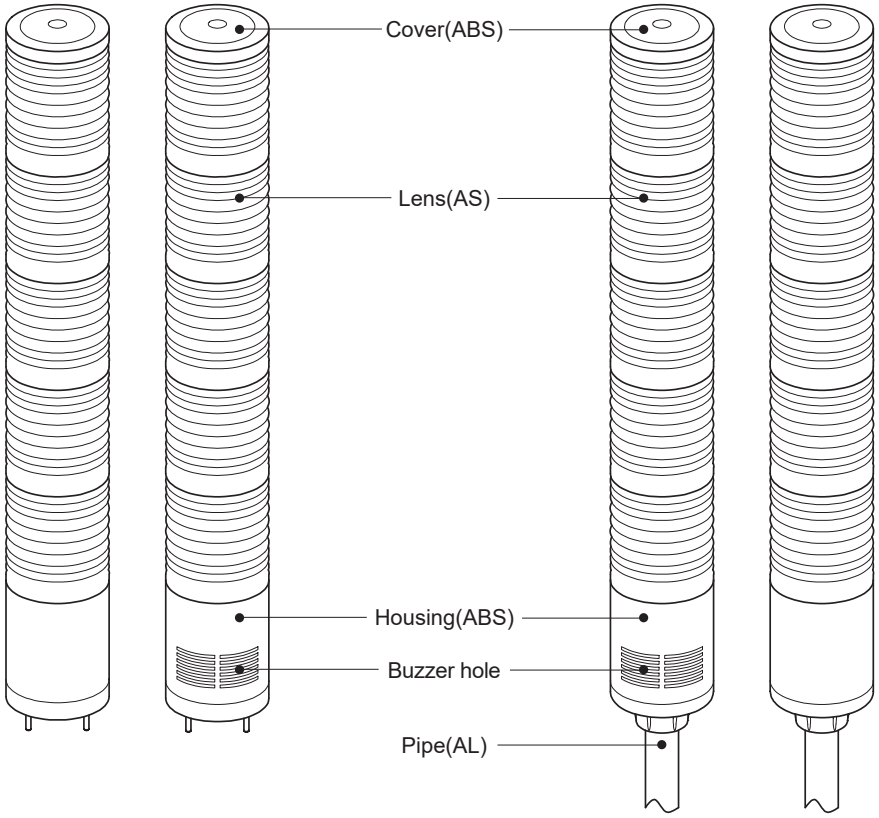
• When using a transistor, please choose between the NPN or PNP type transistor which best matches the voltage and product type, then connect them correctly according to the wiring diagrams below.

	Wiring diagrams
DC Steady ST45ML ST45L ST56MEL ST56ML ST56EL ST56L ST80MEL ST80ML ST80EL ST80L	External Transistor-NPN  External Transistor-PNP 
DC Steady/Flashing ST45MLF ST45LF ST56MELF ST56MLF ST56ELF ST56LF ST80MELF ST80MLF ST80ELF ST80LF	External Transistor-PNP 
AC Steady/Flashing ST45MLF ST45LF ST56MELF ST56MLF ST56ELF ST56LF ST80MELF ST80MLF ST80ELF ST80LF	External Transistor-PNP 
DC/AC Steady Built-in Signal Sound ST45ML ST45L ST56MEL ST56ML ST56EL ST56L ST80MEL ST80ML ST80EL ST80L	External Transistor-NPN  • ST□□M(E)L - WS/ WM/ WA type same wiring instruction • ST□□(E)L - WS/ WM/ WA type same wiring instruction • ST□□ L └ Lens diameter 45(45mm) : ST45L 56(56mm) : ST56L 80(80mm) : ST80L
DC/AC Steady/Flashing Built-in Signal Sound ST45MLF ST45LF ST56MELF ST56MLF ST56ELF ST56LF ST80MELF ST80MLF ST80ELF ST80LF	External Transistor-NPN  • ST□□M(E)LF - WS/ WM/ WA type same wiring instruction • ST□□(E)LF - WS/ WM/ WA type same wiring instruction • ST□□ LF └ Lens diameter 45(45mm) : ST45LF 56(56mm) : ST56LF 80(80mm) : ST80LF

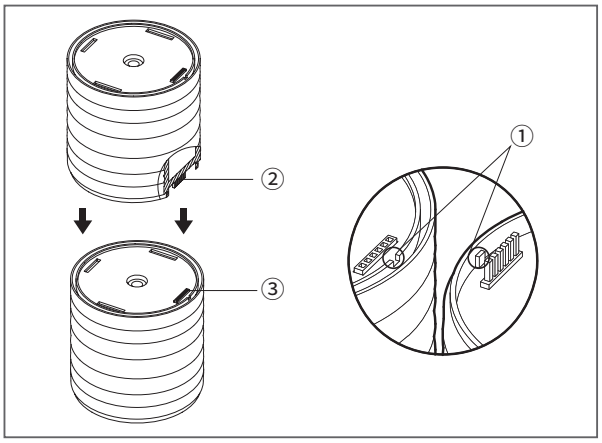
• DC steady type cable specification : External power/ signal line - UL1007 AWG22(0.3sq) 400mm.

• AC steady, AC/DC steady/flashing type cable specification : External power line - UL1015 AWG18(0.75sq) × 2C 400mm,
External signal line - UL1007 AWG22(0.3sq) 400mm

Parts Definition



How to Change Lens Kit



- When rearranging or replacing the lens kits, please be aware of the contact point ① and the connector pin ② marked in the diagram on the left.
- Press down to assemble the lens kits while making sure that connector pin ② and connector ③ aligns correctly.
- Please make sure that the rubber spacer placed on the top of each lens kit is tightly secured to the bottom of the other lens kit.

※ Caution when dealing with lens kit

- Lens kits are connected with connector pins each other. Bad connection may be experienced when the connector pins are touched with a foreign substance.
- If the lens kits are not turned on or not flashed after lens kits replacement, please make sure status of lens kit connection.

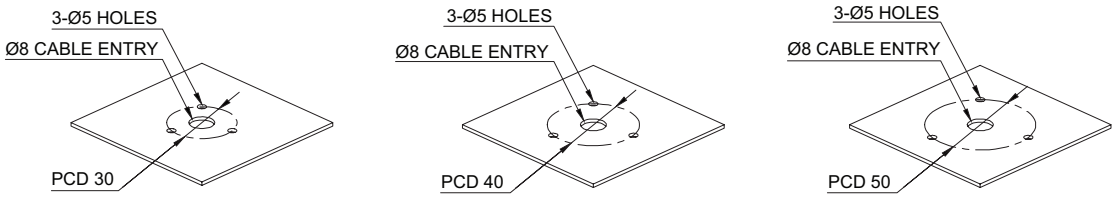
Installation Environment and Protection Rating

- This product is designed for indoor use with protection rating of IP44(standard type) or IP23(buzzer type).
- If the product is installed in locations that subject it to excessive dust or water other than the designated IP protection rating indicated(IP44), it may cause malfunction or damage to the product.
- For further information, please visit our website(www.qlight.com).

Mounting Hole Specifications

■ **ST45ML/ ST56MEL/ ST56ML/ ST80MEL/ ST80ML-Direct Mounting Type Model**

① Machine holes on the mounting surface referring to the diagram below.



ST45ML | ST56MEL/ ST56ML | ST80MEL/ ST80ML

② First, remove the flange nuts from bolts and place the product through the mounting surface holes.
③ Fasten the flange nuts on the opposite side of the mounting surface until the product is tightened securely.

■ **2 Sound Buzzer Type**

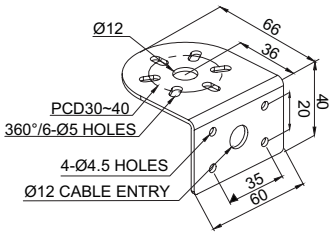
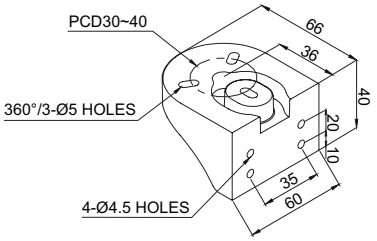
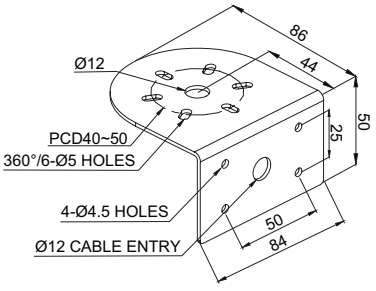
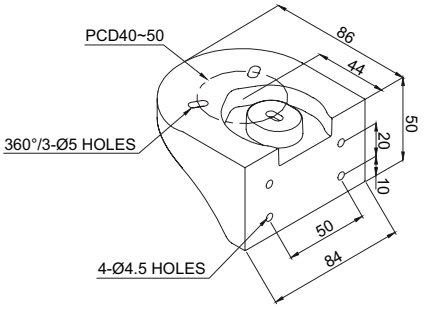
• Buzzer type model with 2 different sounds of long beeping sound and short beeping sound is available upon request.

■ **Customized pole length(ST45L/ ST56EL/ ST56L/ ST80EL/ ST80L)**

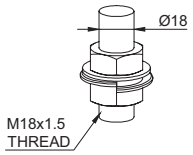
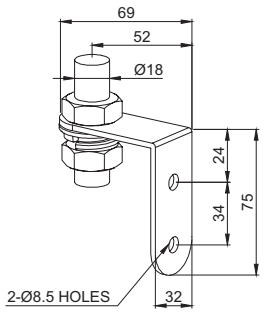
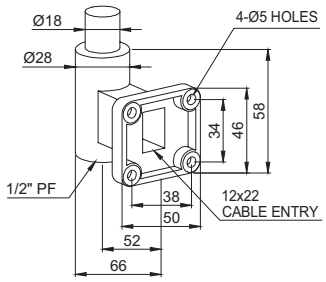
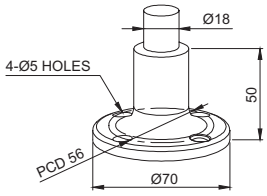
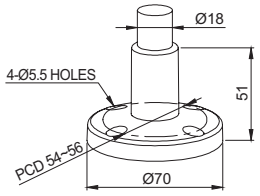
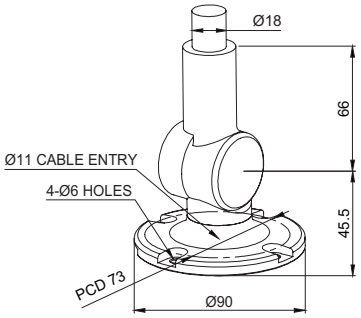
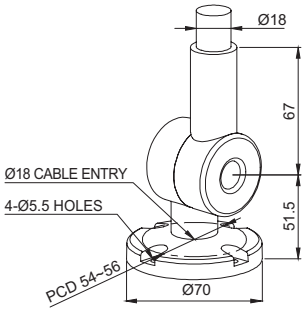
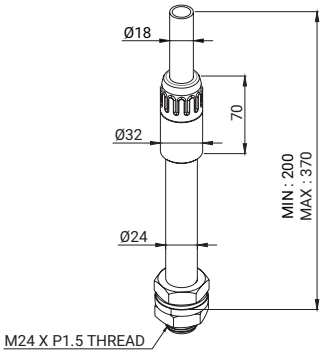
Mounting Accessories (Sold Separately)

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

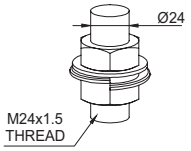
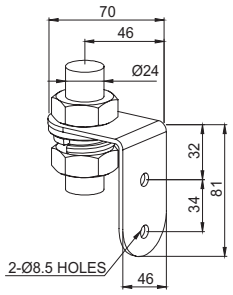
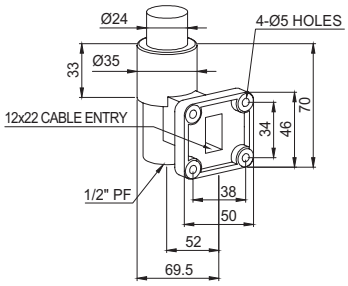
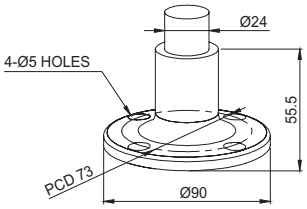
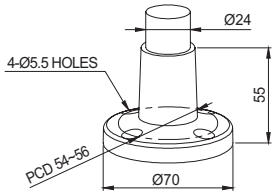
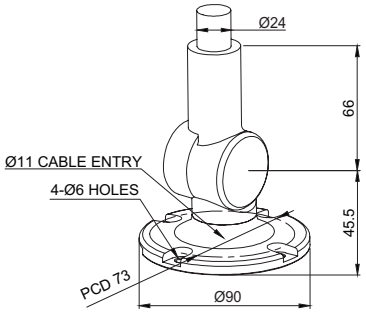
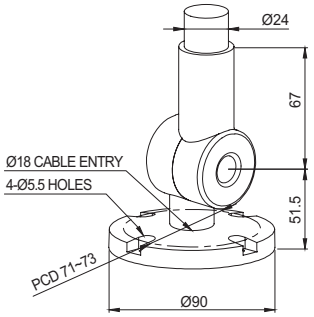
■ **ST45ML/ ST56MEL/ ST56ML/ ST80MEL/ ST80ML - Direct Mounting Type Model**

	Dimensions	
ST45 series ST56 series	 TWS45	 TWA45
ST80 series	 TWS80	 TWA80

■ ST45L/ ST56EL/ ST56L - Pole Mounting Type Model

	Dimensions	
ST45 series ST56 series	 18mm SCREW & NUT	 LB18
	 LW18	 SZ18
	 QZ18	 SL18
	 **QL18**	 **SLB370**

■ ST80EL/ ST80L - Pole Mounting Type Model

	Dimensions	
ST80 series	 24mm SCREW & NUT	 LB24
	 LW24	 SZ24
	 QZ24	 SL24
	 QL24	

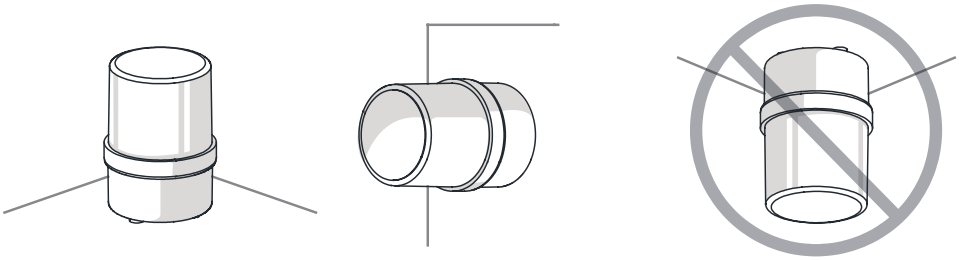
Product installation direction

■ **Install the product in accordance with the manual. Otherwise rainwater or moisture may penetrate into the product.**

· BEACON/SIGNALING LIGHT

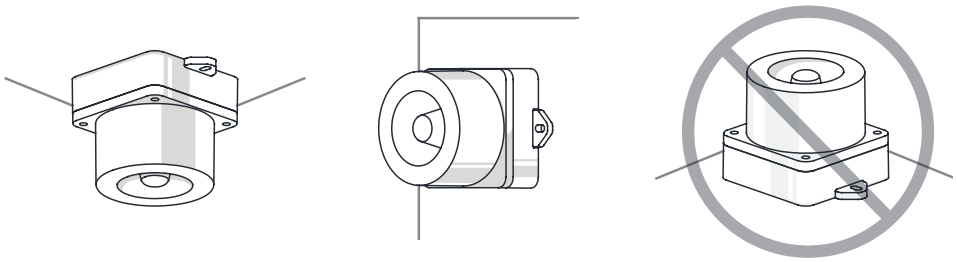
※ For products with a protection rating of less than IPX4, please install it vertically.

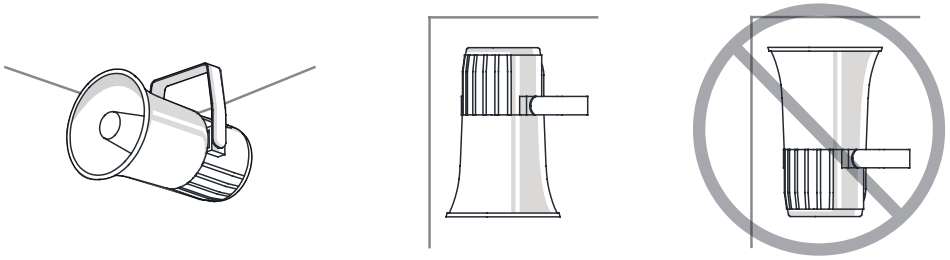
Power cord inlet part shall not be facing the sky.



· ELECTRONIC SOUNDER/SIGNAL HORN

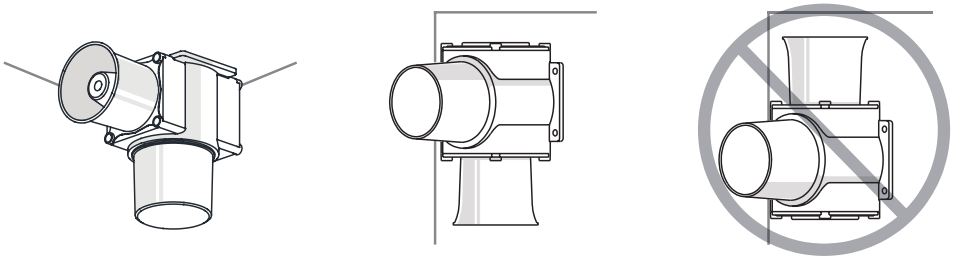
Sounder part shall not be facing the sky.





· HEAVY-DUTY & EXPLOSION PROOF SIGNALINGS

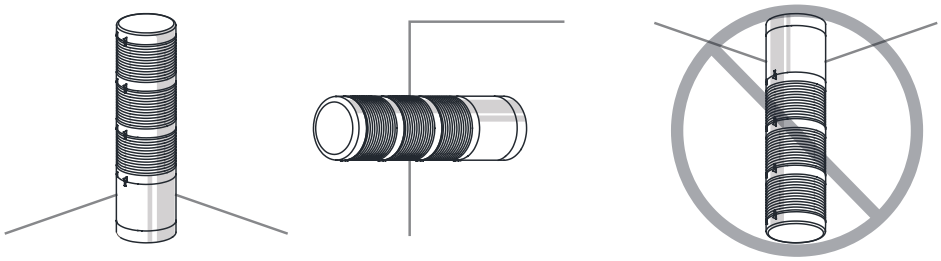
Sounder part shall not be facing the sky.



· SIGNAL TOWER LIGHTS

※ For products with a protection rating of less than IPX4, please install it vertically.

Power cord inlet part shall not be facing the sky.



MEMO

⚠ For your safety

Specification and dimensions listed in this catalogue subject to change without notice for product quality improvement.
The newest product information is available on our website.(www.qlight.com)
Please read the instruction manual attached to the product carefully before installation and use.

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