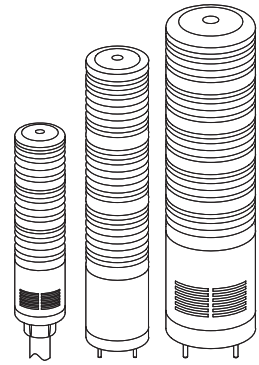


LED Steady/Flashing Tower Lights

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	ST45/ 56L	3	110/220	RAG	LW18
[Model number]	[Layer count]	[Voltage]	[Color]	[Model number]	[Layer count]	[Voltage]	[Color]	[Mounting option]
• ST45/ 56ML • ST45/ 56ML-BZ • ST45/ 56ML-WS • ST45/ 56ML-WM • ST45/ 56ML-WA • ST45/ 56MLF • ST45/ 56MLF-BZ • ST45/ 56MLF-WS • ST45/ 56ML-WM • ST45/ 56ML-WA	• 1 Layer • 2 Layers • 3 Layers • 4 Layers • 5 Layers	• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V	- R-Red - A-Amber - G-Green - B-Blue - W-White	• ST45/ 56L • ST45/ 56L-BZ • ST45/ 56L-WS • ST45/ 56L-WM • ST45/ 56L-WA • ST45/ 56LF • ST45/ 56LF-BZ • ST45/ 56L-WS • ST45/ 56L-WM • ST45/ 56L-WA	• 1 Layer • 2 Layers • 3 Layers • 4 Layers • 5 Layers	• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V	- R-Red - A-Amber - G-Green - B-Blue - W-White	• (Blank) - Standard type • Mounting type - LB18 - LW18 - QZ18 - SZ18 - QL18 - SL18 - QLA18

ST80ML	3	110/220	RAG	ST80L	3	110/220	RAG	LW18
[Model number]	[Layer count]	[Voltage]	[Color]	[Model number]	[Layer count]	[Voltage]	[Color]	[Mounting option]
• ST80ML • ST80ML-BZ • ST80ML-WS • ST80ML-WM • ST80ML-WA • ST80MLF • ST80MLF-BZ • ST80MLF-WS • ST80ML-WM • ST80ML-WA	• 1 Layer • 2 Layers • 3 Layers • 4 Layers • 5 Layers	• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V	- R-Red - A-Amber - G-Green - B-Blue - W-White	• ST80L • ST80L-BZ • ST80L-WS • ST80L-WM • ST80L-WA • ST80LF • ST80LF-BZ • ST80L-WS • ST80L-WM • ST80L-WA	• 1 Layer • 2 Layers • 3 Layers • 4 Layers • 5 Layers	• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V	- R-Red - A-Amber - G-Green - B-Blue - W-White	• (Blank) - Standard type • Mounting type - LB24 - LW24 - QZ24 - SZ24 - QL24 - SL24 - QLA24

ST56MEL	3	110/220	RAG	ST56EL	3	110/220	RAG	LW18
[Model number]	[Layer count]	[Voltage]	[Color]	[Model number]	[Layer count]	[Voltage]	[Color]	[Mounting option]
• ST56MEL • ST56MEL-BZ • ST56MEL-WS • ST56MEL-WM • ST56MEL-WA • ST56MELF • ST56MELF-BZ • ST56MELF-WS • ST56MEL-WM • ST56MEL-WA	• 1 Layer • 2 Layers • 3 Layers • 4 Layers • 5 Layers	• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V	- R-Red - A-Amber - G-Green - B-Blue - W-White	• ST56EL • ST56EL-BZ • ST56EL-WS • ST56EL-WM • ST56EL-WA • ST56ELF • ST56ELF-BZ • ST56EL-WS • ST56EL-WM • ST56EL-WA	• 1 Layer • 2 Layers • 3 Layers • 4 Layers • 5 Layers	• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V	- R-Red - A-Amber - G-Green - B-Blue - W-White	• (Blank) - Standard type • Mounting type - LB18 - LW18 - QZ18 - SZ18 - QL18 - SL18 - QLA18

ST80MEL	3	110/220	RAG	ST80EL	3	110/220	RAG	LW18
[Model number]	[Layer count]	[Voltage]	[Color]	[Model number]	[Layer count]	[Voltage]	[Color]	[Mounting option]
• ST80MEL • ST80MEL-BZ • ST80MEL-WS • ST80MEL-WM • ST80MEL-WA • ST80MELF • ST80MELF-BZ • ST80MELF-WS • ST80MEL-WM • ST80MEL-WA	• 1 Layer • 2 Layers • 3 Layers • 4 Layers • 5 Layers	• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V	- R-Red - A-Amber - G-Green - B-Blue - W-White	• ST80EL • ST80EL-BZ • ST80EL-WS • ST80EL-WM • ST80EL-WA • ST80ELF • ST80ELF-BZ • ST80EL-WS • ST80EL-WM • ST80EL-WA	• 1 Layer • 2 Layers • 3 Layers • 4 Layers • 5 Layers	• 12-DC12V • 24-DC24V • 110-AC110V • 220-AC220V	- R-Red - A-Amber - G-Green - B-Blue - W-White	• (Blank) - Standard type • Mounting type - LB24 - LW24 - QZ24 - SZ24 - QL24 - SL24 - QLA24

Product Specifications

•ST45ML

Model number	Layer count	Voltage	Current	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	Max. 0.040A Max. 0.040A Max. 0.024A Max. 0.012A	 DC24V only  DC24V only	0.19kg 0.19kg 0.25kg 0.25kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.080A Max. 0.070A Max. 0.026A Max. 0.013A		0.21kg 0.21kg 0.29kg 0.29kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.120A Max. 0.120A Max. 0.028A Max. 0.014A		0.25kg 0.25kg 0.34kg 0.34kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.160A Max. 0.160A Max. 0.031A Max. 0.015A		0.30kg 0.30kg 0.38kg 0.38kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.200A Max. 0.200A Max. 0.033A Max. 0.016A		0.34kg 0.34kg 0.42kg 0.42kg	R-Red A-Amber G-Green B-Blue W-White

•ST45L

Model number	Layer count	Voltage	Current	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	Max. 0.040A Max. 0.040A Max. 0.024A Max. 0.012A	 DC24V only  DC24V only	0.35kg 0.35kg 0.45kg 0.45kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.080A Max. 0.070A Max. 0.026A Max. 0.013A		0.39kg 0.39kg 0.49kg 0.49kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.120A Max. 0.120A Max. 0.028A Max. 0.014A		0.44kg 0.44kg 0.54kg 0.54kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.160A Max. 0.160A Max. 0.031A Max. 0.015A		0.48kg 0.48kg 0.58kg 0.58kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.200A Max. 0.200A Max. 0.033A Max. 0.016A		0.52kg 0.52kg 0.62kg 0.62kg	R-Red A-Amber G-Green B-Blue W-White

•ST56MEL

Model number	Layer count	Voltage	Current	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	Max. 0.060A Max. 0.040A Max. 0.044A Max. 0.022A	 DC24V only  DC24V only	0.26kg 0.26kg 0.42kg 0.42kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.120A Max. 0.080A Max. 0.049A Max. 0.024A		0.32kg 0.32kg 0.48kg 0.48kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.180A Max. 0.120A Max. 0.053A Max. 0.026A		0.37kg 0.37kg 0.54kg 0.54kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.240A Max. 0.160A Max. 0.057A Max. 0.028A		0.43kg 0.43kg 0.59kg 0.59kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.300A Max. 0.200A Max. 0.062A Max. 0.031A		0.49kg 0.49kg 0.65kg 0.65kg	R-Red A-Amber G-Green B-Blue W-White

•ST56EL

Model number	Layer count	Voltage	Current	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	Max. 0.060A Max. 0.040A Max. 0.044A Max. 0.022A	 DC24V only  DC24V only	0.41kg 0.41kg 0.57kg 0.57kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.120A Max. 0.080A Max. 0.049A Max. 0.024A		0.47kg 0.47kg 0.62kg 0.62kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.180A Max. 0.120A Max. 0.053A Max. 0.026A		0.52kg 0.52kg 0.68kg 0.68kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.240A Max. 0.160A Max. 0.057A Max. 0.028A		0.58kg 0.58kg 0.74kg 0.74kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.300A Max. 0.200A Max. 0.062A Max. 0.031A		0.63kg 0.63kg 0.75kg 0.75kg	R-Red A-Amber G-Green B-Blue W-White

•ST56ML

Model number	Layer count	Voltage	Current	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	Max. 0.120A Max. 0.080A Max. 0.048A Max. 0.024A	 DC24V only  DC24V only	0.22kg 0.22kg 0.45kg 0.45kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.240A Max. 0.160A Max. 0.057A Max. 0.028A		0.30kg 0.30kg 0.53kg 0.53kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.360A Max. 0.240A Max. 0.066A Max. 0.033A		0.38kg 0.38kg 0.61kg 0.61kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.480A Max. 0.320A Max. 0.075A Max. 0.037A		0.46kg 0.46kg 0.70kg 0.70kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.600A Max. 0.400A Max. 0.082A Max. 0.041A		0.54kg 0.54kg 0.78kg 0.78kg	R-Red A-Amber G-Green B-Blue W-White

•ST56L

Model number	Layer count	Voltage	Current	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	Max. 0.120A Max. 0.080A Max. 0.048A Max. 0.024A	 DC24V only  DC24V only	0.44kg 0.44kg 0.60kg 0.60kg	R-Red
	2	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.240A Max. 0.160A Max. 0.057A Max. 0.028A		0.52kg 0.52kg 0.68kg 0.68kg	R-Red G-Green
	3	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.360A Max. 0.240A Max. 0.066A Max. 0.033A		0.60kg 0.60kg 0.76kg 0.76kg	R-Red A-Amber G-Green
	4	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.480A Max. 0.320A Max. 0.075A Max. 0.037A		0.68kg 0.68kg 0.84kg 0.84kg	R-Red A-Amber G-Green B-Blue
	5	AC/DC12V AC/DC24V AC110V AC220V	Max. 0.600A Max. 0.400A Max. 0.082A Max. 0.041A		0.77kg 0.77kg 0.93kg 0.93kg	R-Red A-Amber G-Green B-Blue W-White

Product Specifications

• ST80MEL

Model number	Layer count	Voltage	Current	Certificate	Weight	Color
ST80MEL ST80MEL-BZ ST80MEL-WS ST80MEL-WM ST80MEL-WA ST80MELF ST80MELF-BZ ST80MELF-WS ST80MELF-WM ST80MELF-WA	1	AC/DC12V	Max. 0.080A	 DC24V only 	0.36kg	R-Red
		AC/DC24V	Max. 0.040A		0.36kg	
		AC110V	Max. 0.046A		0.59kg	
	2	AC/DC12V	Max. 0.160A		0.45kg	R-Red G-Green
		AC/DC24V	Max. 0.080A		0.45kg	
		AC110V	Max. 0.051A		0.68kg	
	3	AC/DC12V	Max. 0.240A		0.55kg	R-Red A-Amber G-Green
		AC/DC24V	Max. 0.120A		0.76kg	
		AC110V	Max. 0.057A		0.76kg	
	4	AC/DC12V	Max. 0.320A		0.64kg	R-Red A-Amber G-Green B-Blue
		AC/DC24V	Max. 0.160A		0.87kg	
		AC110V	Max. 0.064A		0.87kg	
	5	AC/DC12V	Max. 0.400A		0.73kg	R-Red A-Amber G-Green B-Blue W-White
		AC/DC24V	Max. 0.200A		0.96kg	
		AC110V	Max. 0.071A		0.96kg	
		AC220V	Max. 0.023A			

• ST80EL

Model number	Layer count	Voltage	Current	Certificate	Weight	Color
ST80EL ST80EL-BZ ST80EL-WS ST80EL-WM ST80EL-WA ST80ELF ST80ELF-BZ ST80ELF-WS ST80ELF-WM ST80ELF-WA	1	AC/DC12V	Max. 0.080A	 DC24V only 	0.41kg	R-Red
		AC/DC24V	Max. 0.040A		0.41kg	
		AC110V	Max. 0.046A		0.57kg	
	2	AC/DC12V	Max. 0.160A		0.47kg	R-Red G-Green
		AC/DC24V	Max. 0.080A		0.47kg	
		AC110V	Max. 0.051A		0.62kg	
	3	AC/DC12V	Max. 0.240A		0.52kg	R-Red A-Amber G-Green
		AC/DC24V	Max. 0.120A		0.68kg	
		AC110V	Max. 0.057A		0.68kg	
	4	AC/DC12V	Max. 0.320A		0.58kg	R-Red A-Amber G-Green B-Blue
		AC/DC24V	Max. 0.160A		0.74kg	
		AC110V	Max. 0.064A		0.74kg	
	5	AC/DC12V	Max. 0.400A		0.63kg	R-Red A-Amber G-Green B-Blue W-White
		AC/DC24V	Max. 0.200A		0.75kg	
		AC110V	Max. 0.071A		0.75kg	
		AC220V	Max. 0.035A			

• ST80ML

Model number	Layer count	Voltage	Current	Certificate	Weight	Color
ST80ML ST80ML-BZ ST80ML-WS ST80ML-WM ST80ML-WA ST80MLF ST80MLF-BZ ST80MLF-WS ST80MLF-WM ST80MLF-WA	1	AC/DC12V	Max. 0.160A	 DC24V only 	0.40kg	R-Red
		AC/DC24V	Max. 0.160A		0.40kg	
		AC110V	Max. 0.055A		0.64kg	
	2	AC/DC12V	Max. 0.032A		0.54kg	R-Red G-Green
		AC/DC24V	Max. 0.160A		0.78kg	
		AC110V	Max. 0.064A		0.78kg	
	3	AC/DC12V	Max. 0.480A		0.68kg	R-Red A-Amber G-Green
		AC/DC24V	Max. 0.240A		0.92kg	
		AC110V	Max. 0.073A		0.90kg	
	4	AC/DC12V	Max. 0.640A		0.83kg	R-Red A-Amber G-Green B-Blue
		AC/DC24V	Max. 0.320A		1.06kg	
		AC110V	Max. 0.084A		1.06kg	
	5	AC/DC12V	Max. 0.800A		0.97kg	R-Red A-Amber G-Green B-Blue W-White
		AC/DC24V	Max. 0.400A		1.20kg	
		AC110V	Max. 0.093A		1.20kg	
		AC220V	Max. 0.046A			

• ST80L

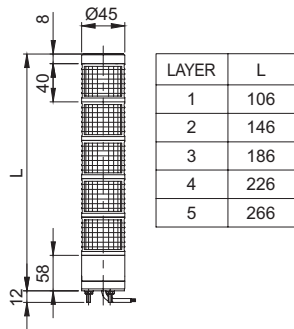
Model number	Layer count	Voltage	Current	Certificate	Weight	Color
ST80L ST80L-BZ ST80L-WS ST80L-WM ST80L-WA ST80LF ST80LF-BZ ST80LF-WS ST80LF-WM ST80LF-WA	1	AC/DC12V	Max. 0.160A	 DC24V only 	0.62kg	R-Red
		AC/DC24V	Max. 0.160A		0.62kg	
		AC110V	Max. 0.055A		0.86kg	
	2	AC/DC12V	Max. 0.032A		0.77kg	R-Red G-Green
		AC/DC24V	Max. 0.160A		1.00kg	
		AC110V	Max. 0.064A		1.00kg	
	3	AC/DC12V	Max. 0.480A		0.91kg	R-Red A-Amber G-Green
		AC/DC24V	Max. 0.240A		1.14kg	
		AC110V	Max. 0.073A		1.14kg	
	4	AC/DC12V	Max. 0.640A		1.05kg	R-Red A-Amber G-Green B-Blue
		AC/DC24V	Max. 0.320A		1.29kg	
		AC110V	Max. 0.084A		1.29kg	
	5	AC/DC12V	Max. 0.800A		1.19kg	R-Red A-Amber G-Green B-Blue W-White
		AC/DC24V	Max. 0.400A		1.14kg	
		AC110V	Max. 0.093A		1.14kg	
		AC220V	Max. 0.046A			

• Signal/ Audible line current(Per each layer)

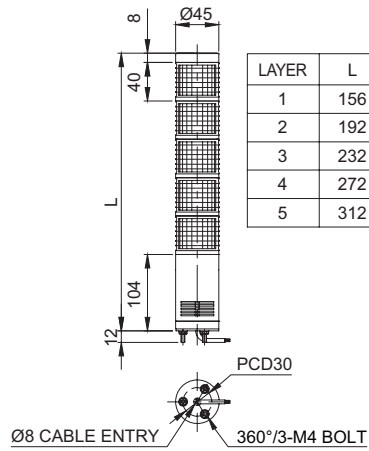
Model number	Current	AC/DC12V	AC/DC24V	AC110V	AC220V
ST45ML ST45L	Signal line current	0.040A	0.040A	0.024A	0.012A
	Audible line current	0.016A	0.031A	0.027A	0.030A
ST56MEL ST56EL	Signal line current	0.060A	0.040A	0.044A	0.022A
	Audible line current	0.016A	0.031A	0.027A	0.030A
ST56ML ST56L	Signal line current	0.120A	0.080A	0.048A	0.024A
	Audible line current	0.016A	0.031A	0.027A	0.030A
ST80MEL ST80EL	Signal line current	0.080A	0.040A	0.046A	0.023A
	Audible line current	0.016A	0.031A	0.027A	0.030A
ST80ML ST80L	Signal line current	0.160A	0.080A	0.055A	0.027A
	Audible line current	0.016A	0.031A	0.027A	0.030A

• ST45ML/ ST45L

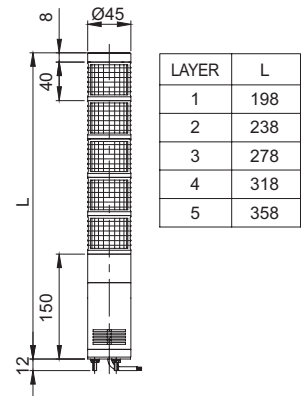
ST45ML : AC/DC
ST45ML-BZ : DC
ST45MLF : DC



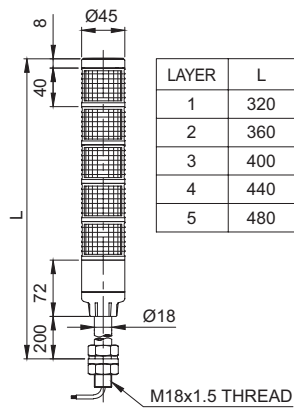
ST45ML-BZ : AC
ST45MLF : AC
ST45MLF-BZ : DC



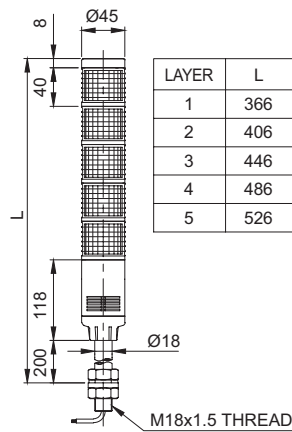
ST45MLF-BZ : AC



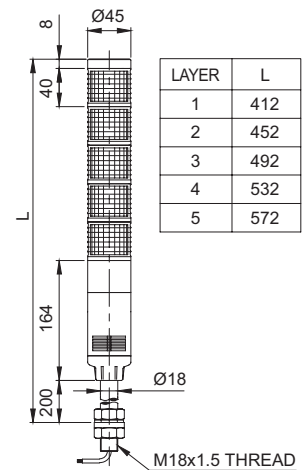
ST45L : AC/DC
ST45L-BZ : DC
ST45LF : DC



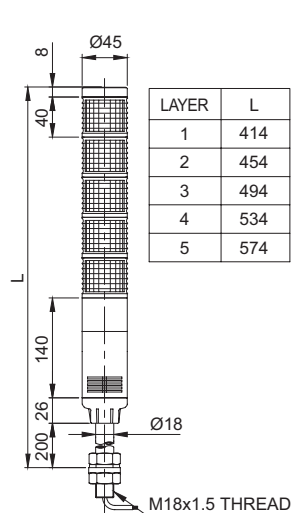
ST45L-BZ : AC
ST45LF : AC
ST45LF-BZ : DC



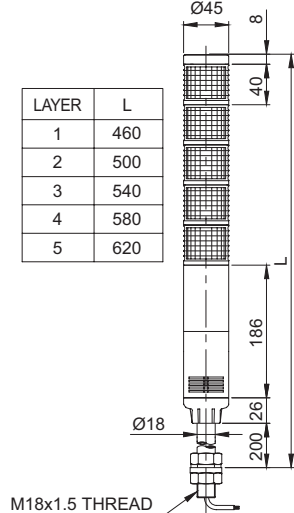
ST45LF-BZ : AC



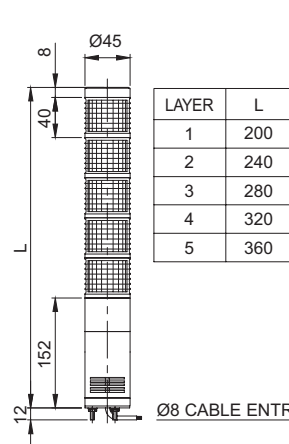
ST45ML-W□ : DC
ST45MLF-W□ : DC



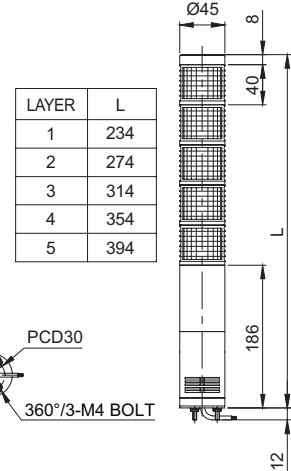
ST45L-W□ : AC
ST45LF-W□ : AC



ST45ML-W□ : DC
ST45MLF-W□ : DC

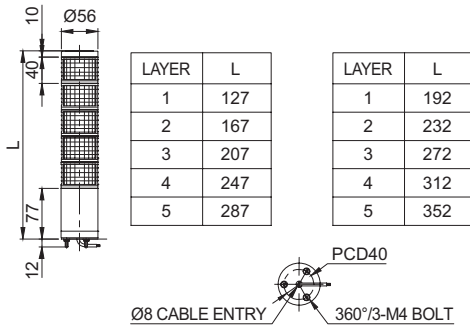


ST45ML-W□ : AC
ST45MLF-W□ : AC



•ST56MEL/ ST56EL

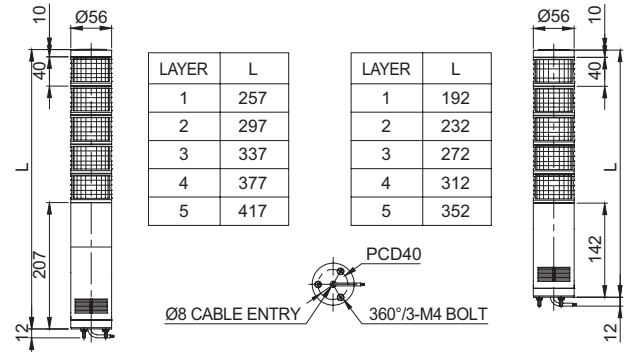
ST56MEL : AC/DC
ST56MEL-BZ : DC
ST56MELF : DC



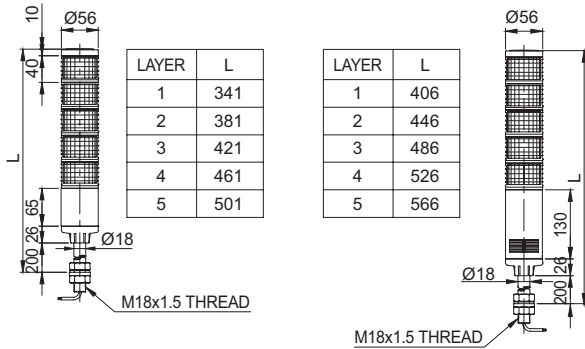
ST56MEL : AC
ST56MELF-BZ : AC/DC
ST56MELF : AC

ST56MEL-W□ : AC
ST56MELF-W□ : AC

ST56MEL-W□ : DC
ST56MELF-W□ : DC



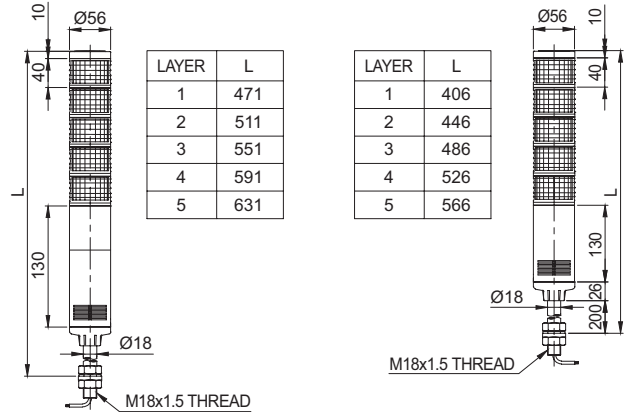
ST56EL : AC/DC
ST56EL-BZ : DC
ST56ELF : DC



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

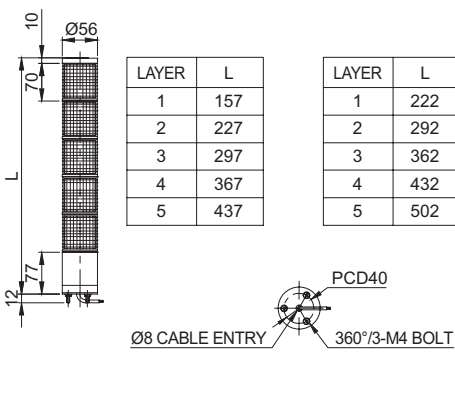
ST56EL-W□ : AC
ST56ELF-W□ : AC

ST56EL-W□ : DC
ST56ELF-W□ : DC



•ST56ML/ ST56L

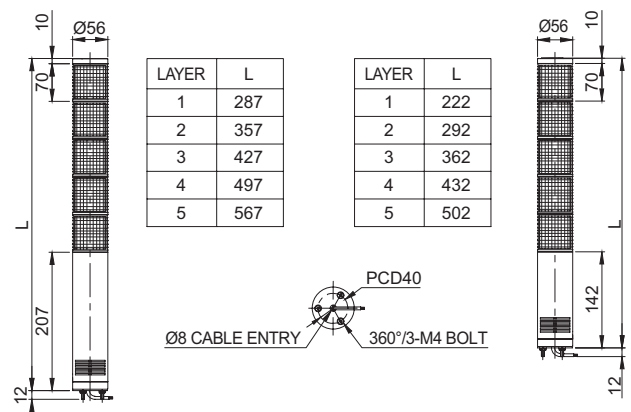
ST56ML : AC/DC
ST56ML-BZ : DC



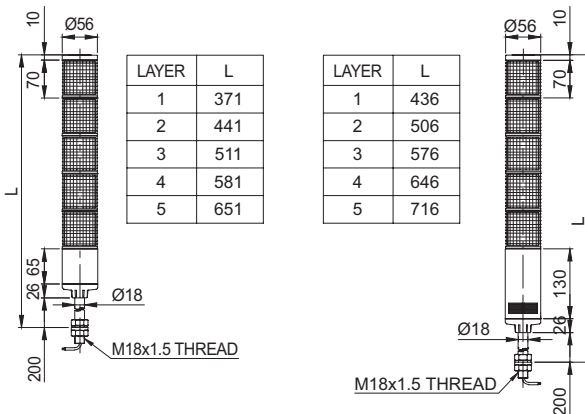
ST56ML-BZ : AC
ST56MLF-BZ : AC/DC

ST56ML-W□ : AC
ST56MLF-W□ : AC

ST56ML-W□ : DC
ST56MLF-W□ : DC



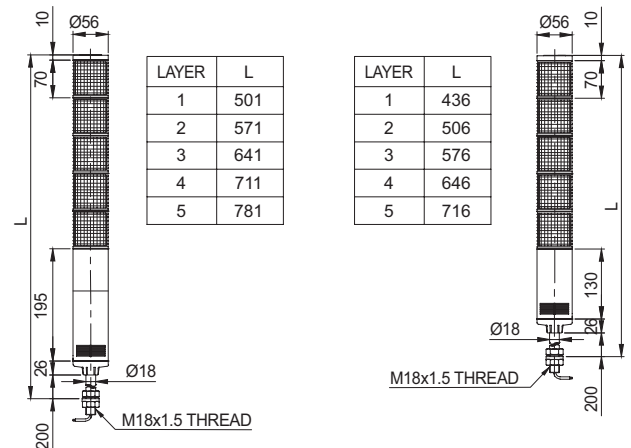
ST56L : AC/DC
ST56L-BZ : DC
ST56LF : DC



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

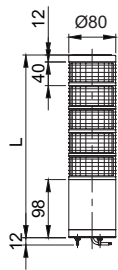
ST56L-W□ : AC
ST56LF-W□ : AC

ST56L-W□ : DC
ST56LF-W□ : DC



• ST80MEL/ ST80EL

ST80MEL : AC/DC
ST80MELF : AC/DC

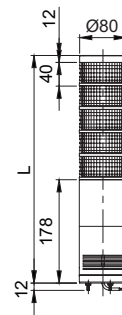


LAYER	L
1	150
2	190
3	230
4	270
5	310



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

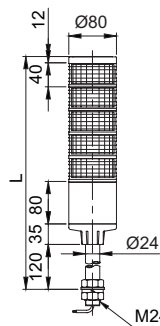
ST80MEL-W□
ST80MELF-W□



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



ST80EL : AC/DC
ST80ELF : AC/DC

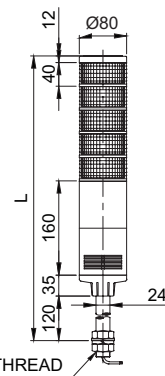


LAYER	L
1	287
2	327
3	367
4	407
5	447



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

ST80EL-W□
ST80ELF-W□

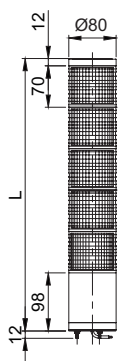


LAYER	L
1	367
2	407
3	447
4	487
5	527

M24x1.5 THREAD

• ST80ML/ ST80L

ST80ML : AC/DC
ST80MLF : AC/DC

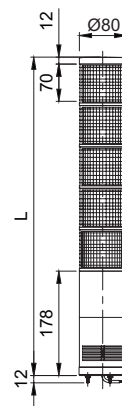


LAYER	L
1	180
2	250
3	320
4	390
5	460



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

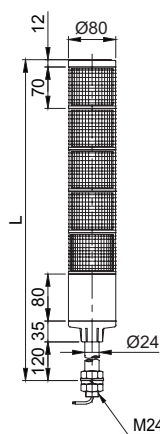
ST80ML-W□
ST80MLF-W□



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



ST80L : AC/DC
ST80LF : AC/DC

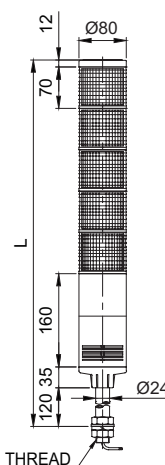


LAYER	L
1	317
2	387
3	457
4	527
5	597



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

ST80L-W□
ST80LF-W□



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

M24x1.5 THREAD

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.

DC Steady	Wiring diagrams	AC Steady	Wiring diagrams
ST45ML ST45L ST56MEL ST56ML ST56EL ST56L ST80MEL ST80ML ST80EL ST80L		ST45ML ST45L ST56MEL ST56ML ST56EL ST56L ST80MEL ST80ML ST80EL ST80L	
DC Steady/Flashing ST45MLF ST45LF ST56MLF ST56MLF ST56ELF ST56LF ST80MLF ST80MLF ST80ELF ST80LF		AC Steady/Flashing ST45MLF ST45LF ST56MLF ST56MLF ST56ELF ST56LF ST80MLF 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 ST56MLF ST56MLF ST56ELF ST56LF ST80MLF 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

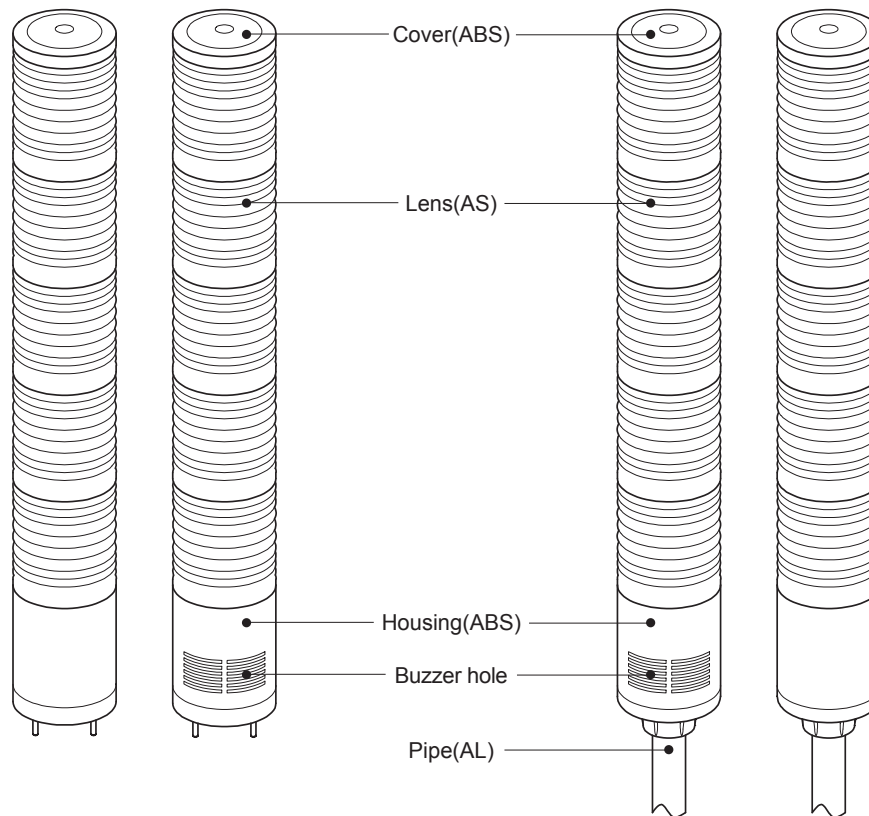
■ Wiring using transistor

- 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.

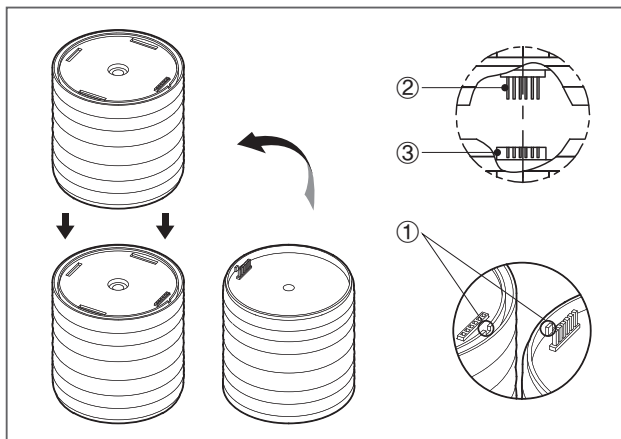
Wiring diagrams	
DC Steady	NPN-Transistor External Transistor-NPN PNP-Transistor External Transistor-PNP ST45ML ST45L ST56MEL ST56ML ST56EL ST56L ST80MEL ST80ML ST80EL ST80L
DC Steady/Flashing	PNP-Transistor External Transistor-PNP ST45MLF ST45LF ST56MELF ST56MLF ST56ELF ST56LF ST80MELF ST80MLF ST80ELF ST80LF
AC Steady/Flashing	PNP-Transistor External Transistor-PNP ST45MLF ST45LF ST56MELF ST56MLF ST56ELF ST56LF ST80MELF ST80MLF ST80ELF ST80LF
DC/AC Steady Built-in Signal Sound	NPN-Transistor External Transistor-NPN 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	NPN-Transistor External Transistor-NPN 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/flushing 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



- Please familiarize yourself with the contact points① and the male ② and female ③ connector pins marked in the diagram to the left.
- Assemble the lens kits by carefully aligning the connector pins together ②&③
- While assembling the lens kits, please make sure the rubber spacer is tightly secured between the top and bottom lens kits.

※Cautions

Lens modules are connected through contact point of each module.
In case the contact point is damaged, it may cause a contact failure.

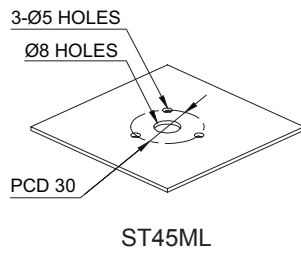
Installation Environment and Protection Rating

- 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 (<http://www.qlight.com>).

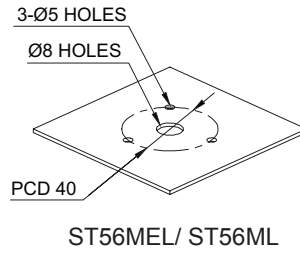
Mounting Hole Specifications

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

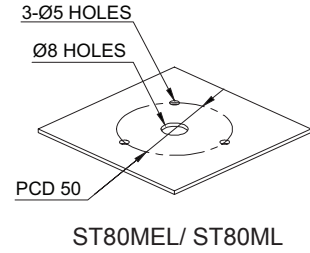
① Machine holes on the mounting surface referring to the diagram below.



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.

■ Lens Kits supplied by AC Type power (same wiring as DC Steady type product)

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

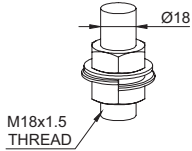
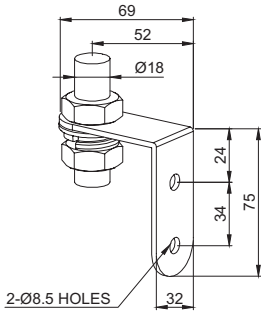
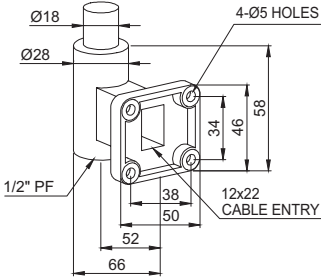
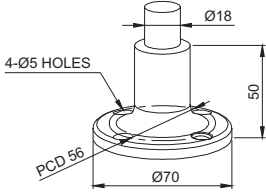
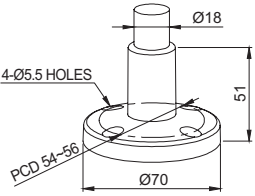
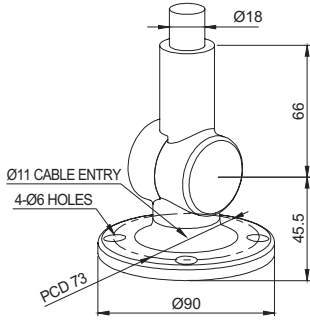
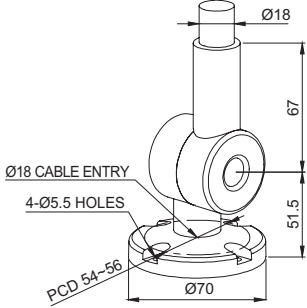
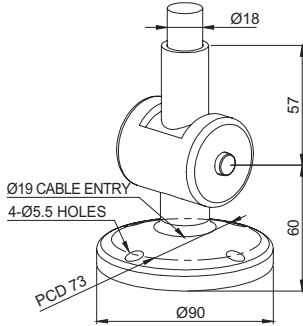
Mounting Accessories (Sold Separately)

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

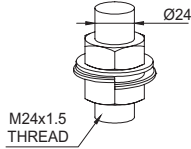
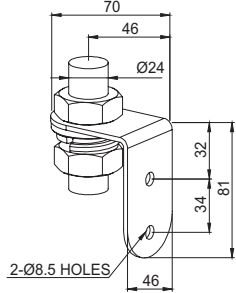
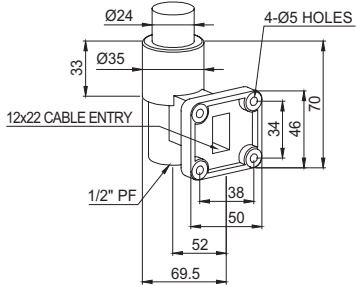
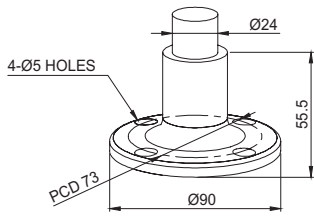
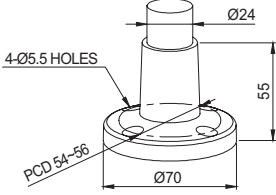
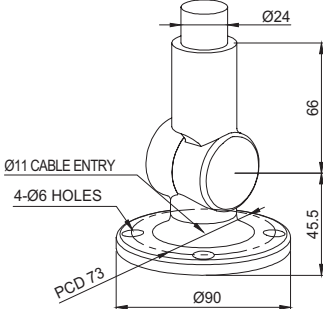
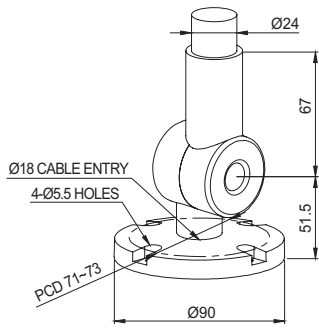
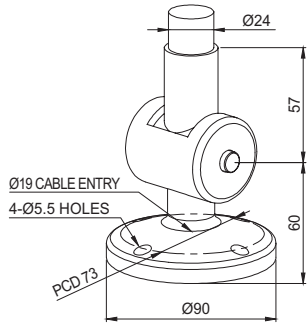
■ ST45ML/ ST56MEL/ ST56ML/ ST80MEL/ ST80ML - Direct Mounting Type Model

	Dimensions	
ST45 series ST56 series	TWS45	TWA45
	TWS80	TWA80

■ ST45L/ ST56EL/ ST56L - Pole Mounting Type Model

	Dimensions	
ST45 series ST56 series	 18mm SCREW & NUT	 LB18
	 LW18	 SZ18
	 QZ18	 SL18
	 QL18	 QLA18

■ ST80EL/ ST80L - Pole Mounting Type Model

	Dimensions	
ST80 series	 M24x1.5 THREAD 24mm SCREW & NUT	 LB24
	 LW24	 SZ24
	 QZ24	 SL24
	 QL24	 QLA24