

STL series

INSTRUCTION MANUAL

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MK1701KE191108

Thank you for purchasing HANYOUNG product. please check whether the product is the exactly same as you ordered. before using the product, please read this instruction manual carefully. please keep this manual where you can view at any time.

Safety information

Before using the product, please read the safety information thoroughly and use it properly. Alerts declared in the manual are classified to danger, warning and caution by their criticality

	DANGER	Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury
	WARNING	Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury
	CAUTION	Caution indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury

WARNING

- If the user use the product with methods other than specified by the manufacturer, there may be bodily injuries or property damages.
- If there is a possibility of an accident caused by errors or malfunctions of this product, install external protection circuit to prevent the accident.

- Big impact on this product will cause a break down of LED units.
- Please do not change parts of product or do not use other product parts.
- End of unused lead wire must be insulated.
- Contamination by thinner, benzene over lens or top cover will cause a fade in color or transformation in shape.
- Power switch and fuse are not attached to this product. so please install them outside. (fuse rated : 250 V 0.5 A)

CAUTION

- This products is only suitable for indoor use. please keep it away from damp place.
- Please use correct voltage. over voltage will cause a break down of product.
- Please refer to 'connection diagram' when you wire product. wrong wiring will cause a break down of product.
- Do not pull wire strongly that is outside of product. it will cause a break down of product.

Precaution for compliance with UL standards

- For use on a flat surface of a type 1 enclosure recognized by UL

Suffix code

※ 12Vd.c. On demand product.

Model	Code	Description
STL-025	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	LED sign tower (LED light source)
Circumference size	025	025 Cylinder type
Power supply voltage	D51	24Vd.c.
Stacking modules	1	1 Light(R)
	2	2 Light(R,G)
	3	3 Light(R,Y,G)
	4	4 Light(R,Y,G,B)
	5	5 Light(R,Y,G,B,W)
Polarity	N	NPN(Common anode)
	P	PNP(Common cathode)

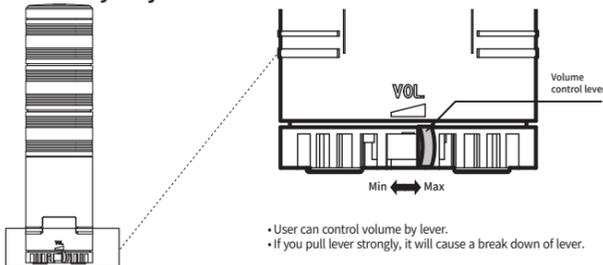
※ 12Vd.c. On demand product.

Model	Code	Description
STL-040,060,080	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	LED sign tower (LED light source)
Circumference size	040	040 Cylinder type
	060	060 Cylinder type
	080	080 Cylinder type
Function	A	Continuous light only
	F	Continuous light, flashing light and buzzer(Selected by the external signal)
Power supply voltage	C51	24Va.c. 50/60Hz or 24Vd.c.
	A11	100~240Va.c. 50/60 Hz
Stacking modules	1	1 Light(R)
	2	2 Light(R,G)
	3	3 Light(R,Y,G)
	4	4 Light(R,Y,G,B)
	5	5 Light(R,Y,G,B,W)
Supporter selection	D	Direct installation(Volt fixing installation)
	L	L type supporter
	M	Plastic supporter
Optional		Selecting type supporter(STM)
		Elbow type supporter installation(ETM)

Specification

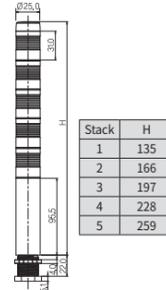
Model	STL 025	STL040-□□□□	STL060-□□□□	STL080-□□□□
Circumference size	025	040	060	080
Function	Continuous light only	Continuous light, Flashing light, Buzzer (Selected by the external signal)		
Number of stacks	—	1 ~ 5 Light		
Flashing time	—	60 Times / 1 Min		
Buzzer melody type	—	Single melody, Beeping(Volume of buzzer spreads out to 1 m)		
Buzzer melody volume	—	Approx. 75dB Approx. 85dB		
Power supply voltage	24 VDC	24Va.c. 50/60Hz or 24Vd.c., 100-240Va.c. 50/60Hz		
Drive	Relay drive		Relay, NPN, PNP transistor open collector driver 24Va.c. 50/60Hz or 24Vd.c.	
	NPN transistor(polarity : N type), PNP transistor(polarity : P type)		Relay, NPN, PNP transistor open collector driver 24Va.c. 50/60Hz or 24Vd.c.	
	Open collector drive			
Power consumption	Approx 4W (5th stack standard, 0.6 W for each stacks)	Approx 8W (5th stack standard, 1.2 W for each stacks)		
Light source	LED			
Radiating angle	360°			
Lens material	Polycarbonate(PC)			
Pipe material	Aluminum			
Lens color	Red, Yellow, Green, Blue, White			
Degree of protection	IP54			

Buzzer melody adjustment



Dimension

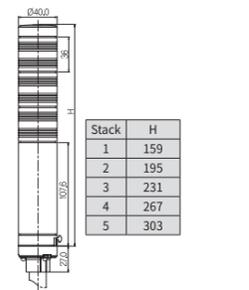
STL 025



Stack	H
1	135
2	166
3	197
4	228
5	259

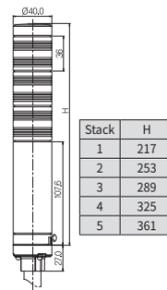
• Rated voltage : 24Vd.c.

STL 040



Stack	H
1	159
2	195
3	231
4	267
5	303

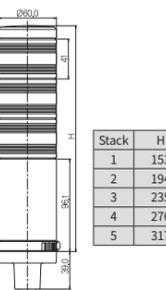
• Rated voltage : 24Va.c. 50/60Hz or 24Vd.c.



Stack	H
1	217
2	253
3	289
4	325
5	361

• Rated voltage : 24Va.c. 50/60Hz or 24Vd.c.

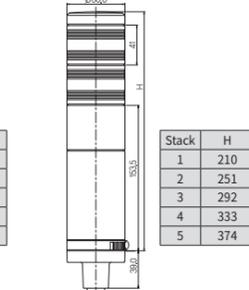
STL 060



Stack	H
1	153
2	194
3	235
4	276
5	317

• Rated voltage : 24Va.c. 50/60Hz or 24Vd.c.

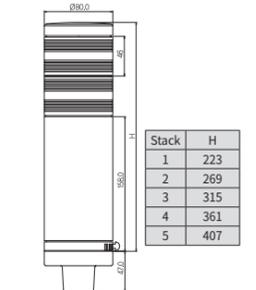
STL 080



Stack	H
1	210
2	251
3	292
4	333
5	374

• Rated voltage : 100-240Va.c. 50/60Hz

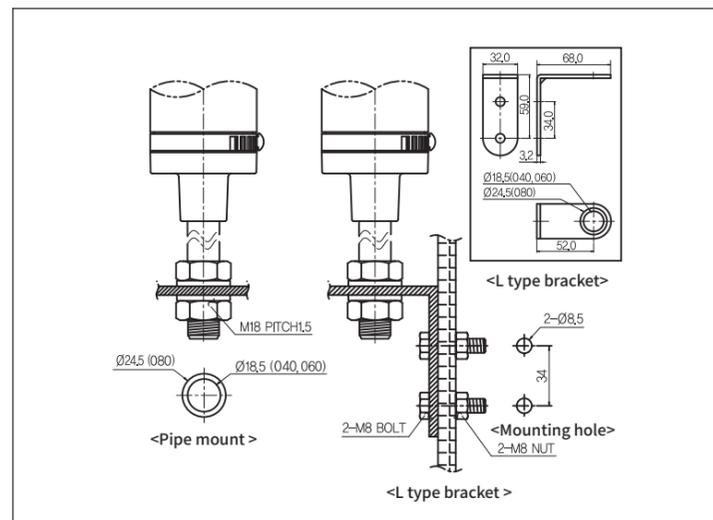
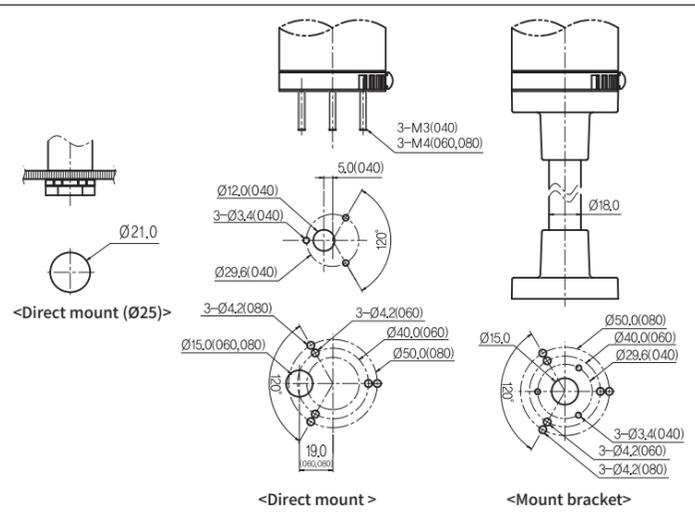
STL 080



Stack	H
1	223
2	269
3	315
4	361
5	407

• Rated voltage : 24Va.c. 50/60Hz or 24Vd.c.

How to install

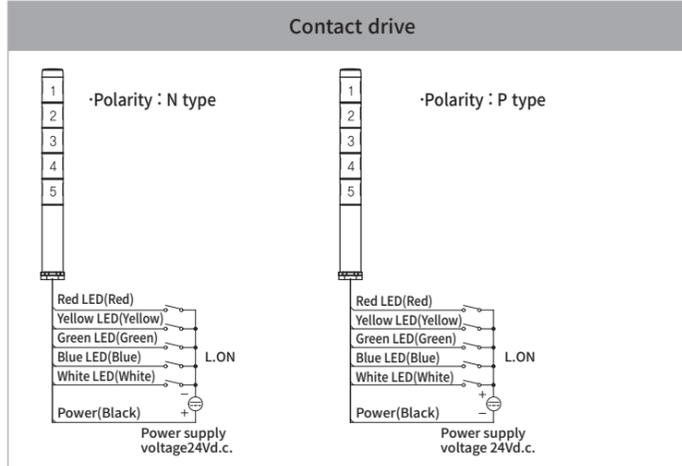


※ Fixing must be done carefully in selected place as horizontal or vertical surface that are not shaking too much.

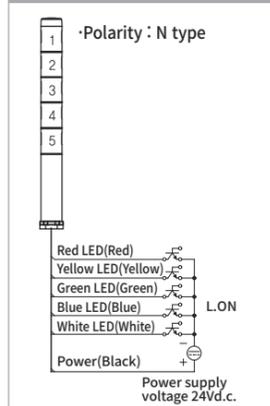
[Unit : mm]

Connection diagram

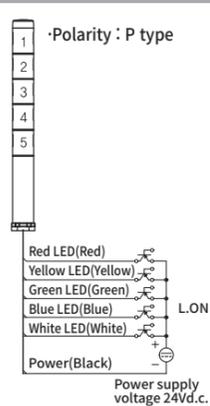
STL 025



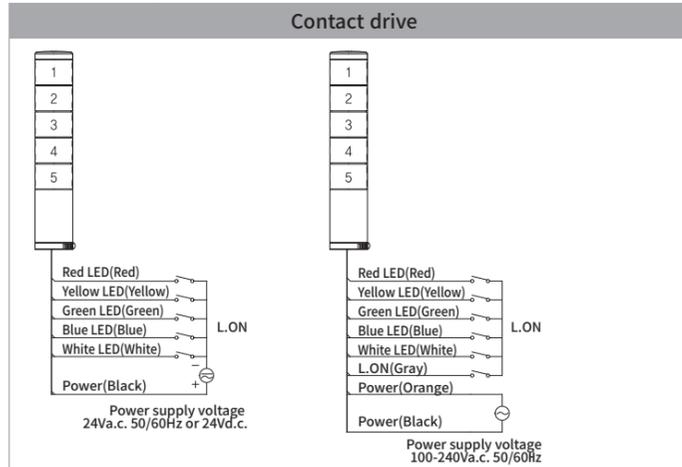
NPN transistor drive



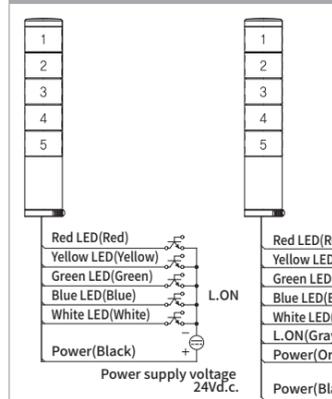
PNP transistor drive



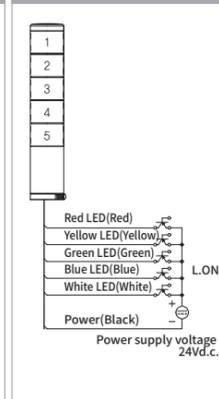
Continuous light only (STL-040A, STL-060A, STL-080A)



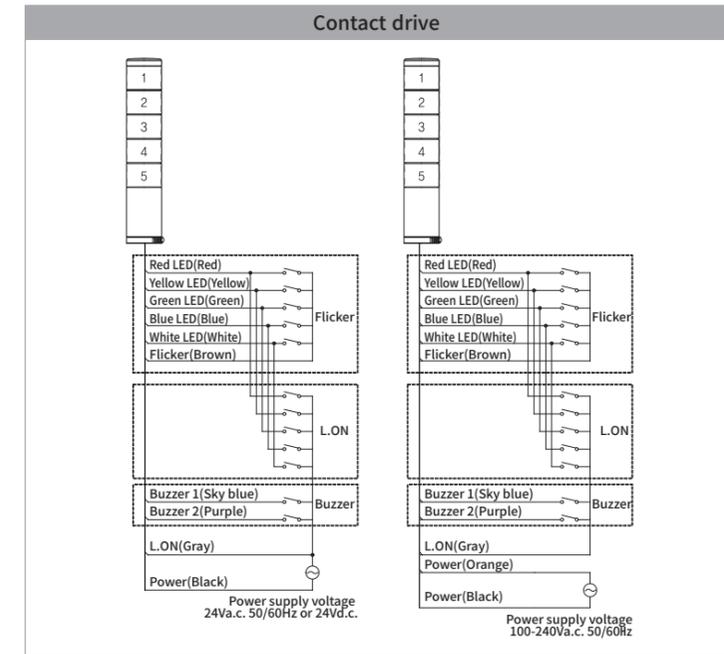
NPN transistor drive



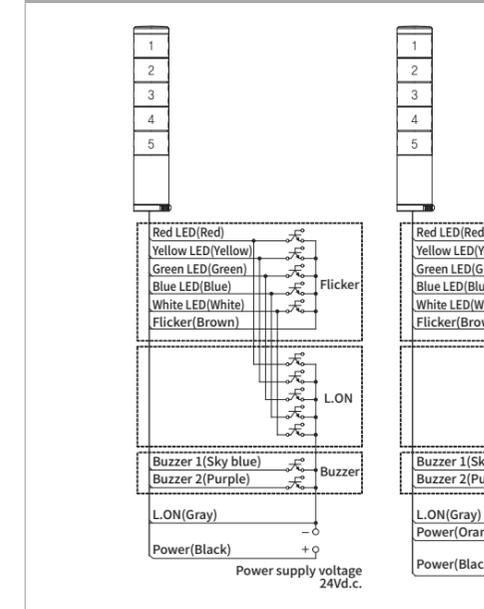
PNP transistor drive



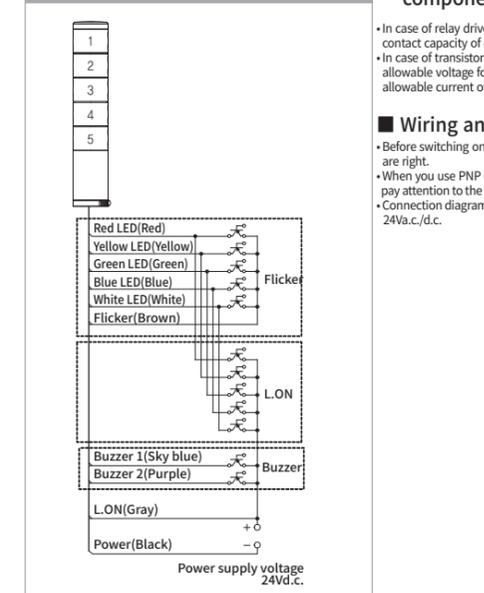
Continuous light, flashing light, buzzer (STL-040F, STL-060F, STL-080F)



NPN transistor drive



PNP transistor drive



Recommended external drive component

- In case of relay drive, please use product that has over 50mA contact capacity of external relay.
- In case of transistor drive, please use product that has over 40V allowable voltage for collector / emitter of external transistor, and allowable current of collector is over 50mA.

Wiring and how to use

- Before switching on, please make sure all the wire connections are right.
- When you use PNP or NPN drive and in case of 24Va.c./d.c., please pay attention to the polarity.
- Connection diagram for 12V (on demand product) is same as 24Va.c./d.c.