



特点 Features

- 采用SMD LED（贴片型 LED 灯珠），具有高亮度、低能耗、长寿命以及响应速度快；
- 高亮型号多采用铜支架或陶瓷基板封装，提升热传导效率，降低结温，延长使用寿命（典型寿命 50000 小时以上）；
- 采用PC 材料兼具高强度和高韧性，抗冲击性能突出，即使在低温环境下也不易开裂；
- 长期暴露在紫外线环境中不易黄变；
- It adopts SMD LED (surface mount LED beads), featuring high brightness, low energy consumption, long lifespan and fast response speed;
- High-gloss models are mostly encapsulated with copper brackets or ceramic substrates to enhance heat conduction efficiency, reduce junction temperature, and extend service life (with a typical lifespan of over 50,000 hours);
- Made of PC material, it features both high strength and high toughness, with outstanding impact resistance. Even in low-temperature environments, it is not prone to cracking;
- It is not prone to yellowing when exposed to ultraviolet rays for a long time.



选型说明 Model Designation

CLS 90 - R / / L02 -

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

序号 Serial number	项目 Item	代号 Code	说明 Description
①	系列号 Serial number	CLS	塔灯 Tower light
②	外形尺寸 Overall dimension	90	90 size class; body Ø94.5
③	颜色 Color	R	红
		Y	黄
		G	绿
		B	蓝
		W	白
④	发声形式 Form of vocalization	无 None	不发声 No sound
		A	滴声间断 Intermittent drip
		C	警音 Police siren sound
⑤	发光形式 Luminescence type	X	旋转 Rotate
		W	闪亮 Sparkle
		T	常亮 Steady on
		B	爆闪 Flash
⑥	电压 Voltage	J	AC/DC12V
		B	AC/DC24V
		M	AC220V
⑦	需求功能 Required functions	无 None	常规型 Regular type
		F	IP65防水型 IP65 waterproof type
		K	抗干扰型 Anti-interference type
⑧	安装底座款式 Installation base	无 None	固定螺丝安装 Fixed screw installation
		A	圆盘安装式 Disc moun
		B	螺母侧安装式 Nut side mounting type
		C	90°方形可折叠式安装式 90° square foldable installation type
		F	磁铁固定 Magnet fixation
		E	L型支架 L-shaped bracket

⑨	连接杆尺寸 Connecting rod	10	10: 10cm
		15	15: 15cm
		26	26: 26cm
		其他数字 Other numbers	定制长度 Custom length
⑩	电线长度 Wire length	L02	电线长度 0.2m Length of the wire is 0.2m
		L1~L5	L1表示1米线 (线长不限L5) L1 means 1 meter line (line length is not limited to L5)
⑪	连接形式 Connection form	无 None	引线式自由出线端 Lead type free outlet end
		M□□□□	M型接插件 M□□□□ M-type connector M□□□□
		D□□□□	DT型接插件 D□□□□ DT-type connector D□□□□
		A□□□□	AMP型接插件 A□□□□ AMP-type connector A□□□□
		S□□□□	SM型接插件 S□□□□ SM-type connector S□□□□
⑫	电线材质 Wire material	无 None	PVC护套线 Sheathed wire
		U	PUR护套线 Sheathed wire
		VP	PVC屏蔽护套线 Shield sheathed wire
		UP	PUR屏蔽护套线 Shield sheathed wire

额定值 Ratings

型号 Model	CLS90			CLS90-C		
工作电压 Working voltage	DC12V	DC24V	AC220V	DC12V	DC24V	AC220V
工作电流 Working current	Max:81mA	Max:114mA	Max:80mA	Max:90mA	Max:117mA	Max:160mA
功率 Power (W)	1	2.8	1	1.1	2.8	2.2

特性 Characteristics

型号 Model		CLS90	CLS90-C
声音大小 Volume of sound (Max.dB)		/	100
闪亮频率 Shining frequency		55~65 次 /min 60	
外形尺寸 Outline dimensions	平面直径 Plane diameter	94.5	
	高度 Height	135	
材质 Material	灯罩 Lampshade	PC（聚碳酸酯）	
	底座 Base	ABS	
电源线规格 Power cord specification		UL1007	
安装螺钉 Install screws		镀白 White plating	
使用环境温度 Operating ambient temperature		-30℃~+50℃	
空气相对湿度 Relative humidity of air		≤85%	
单光防护等级 Single light protection grade		IP43	
海拔高度 Altitude		≤2000M	

国际认证规格 International Certification Specifications

认证规格 Certification specifications	规格 Specifications	文件No. Document
CCC	GB/T 14048.5	请咨询昌得代表处 Please consult the CNTD Representative Office
CE	EN 61058	

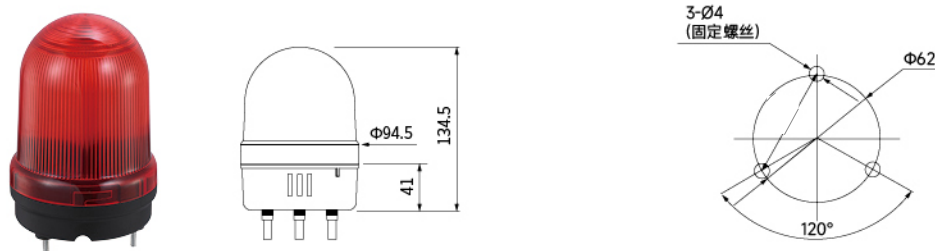
灯珠规格 Light bead specifications

颜色 Color	电压 Voltage
红 Red	1.8V~2.2V
黄 Yellow	1.8V~2.2V
绿 Green	2.8V~3.4V
蓝 Blue	2.8V~3.4V
白 White	2.8V~3.4V

外观和尺寸 Appearance and Dimension

CLS90-□

塔灯
螺丝固定
Tower light
Screw fixation



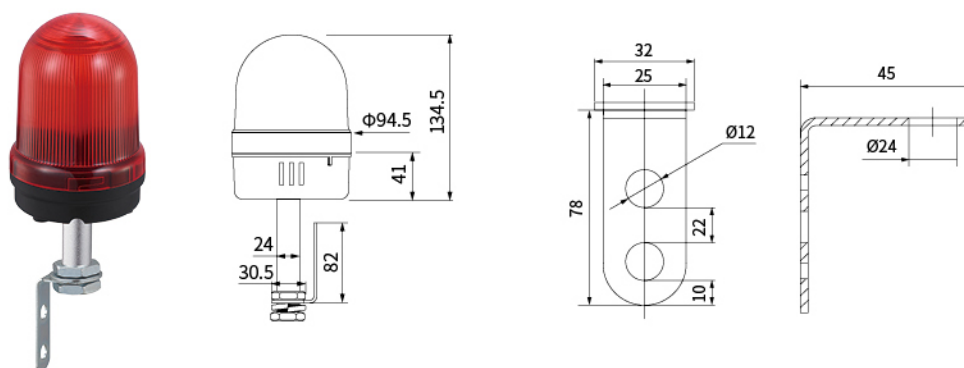
Adjacent fixing-center spacing: 53.7mm, calculated from the 62mm pitch circle and 120-degree spacing.

常用型号 Common Model

产品型号 Product model	发声形式 Form of vocalization	发光形式 Luminescence type	电压 Voltage	安装底座款式 Installation base	电线长度 Wire length
CLS90-R/XB-L02	/	旋转 Rotate	AC/DC24V	螺丝固定 Screw fixation	0.2m
CLS90-R/XM-L02	/		AC220V		
CLS90-R/CXB-L02	警音 Police siren sound		AC/DC24V		
CLS90-R/CXM-L02			AC220V		

CLS90-□

塔灯
螺母侧安装式
Tower light
Nut side
mounting type



常用型号 Common Model

产品型号 Product model	发声形式 Form of vocalization	发光形式 Luminescence type	电压 Voltage	安装底座款式 Installation base	连接杆尺寸 Connecting rod	电线长度 Wire length
CLS90-R/XB-B26L02	/	旋转 Rotate	AC/DC24V	螺母侧安装式 Nut side mounting type	26cm	0.2m
CLS90-R/XM-B26L02	/		AC220V			
CLS90-R/CXB-B26L02	警音 Police siren sound		AC/DC24V			
CLS90-R/CXM-B26L02			AC220V			

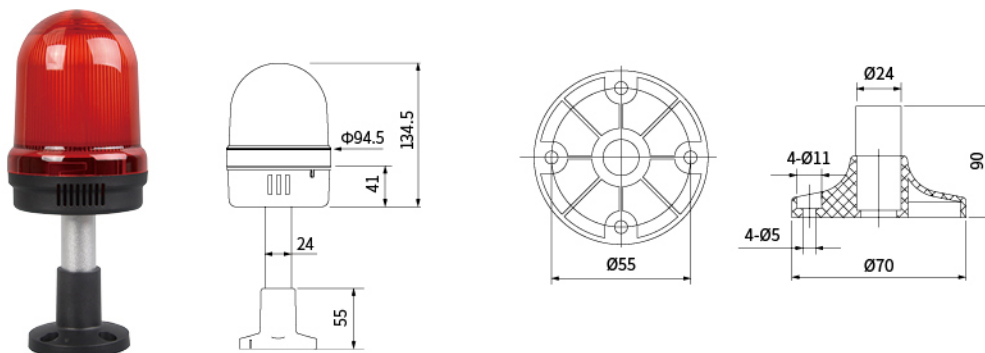
注：以上为常用型号参考，未在表格内的参考选型说明，如需磁铁固定，请咨询昌得代表处。

Note: The above is a reference for commonly used models. For selection instructions not included in the table, or if magnetic fixation is required, please consult the Changde representative office.

外观和尺寸 Appearance and Dimension

CLS90-□

塔灯
圆盘安装式
Tower light
Disc moun

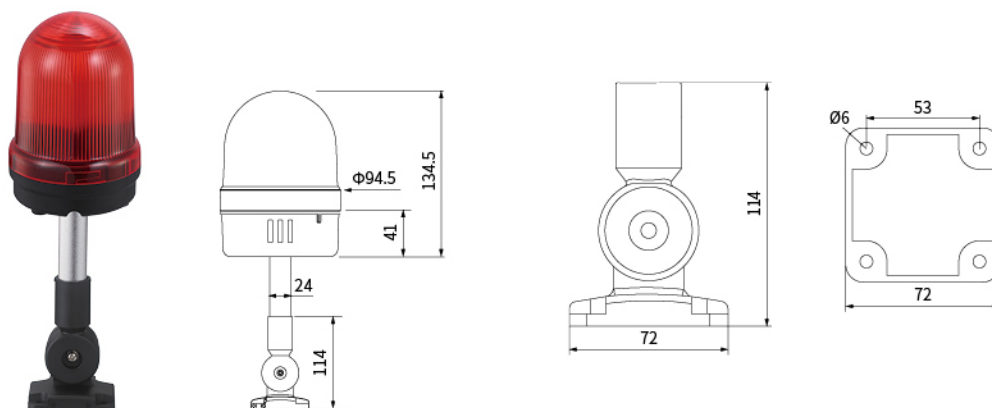


常用型号 Common Model

产品型号 Product model	发声形式 Form of vocalization	发光形式 Luminescence type	电压 Voltage	安装底座款式 Installation base	连接杆尺寸 Connecting rod	电线长度 Wire length
CLS90-R/XB-A10L02	/	旋转 Rotate	AC/DC24V	圆盘安装式 Disc moun	10cm	0.2m
CLS90-R/XM-A10L02	/		AC220V			
CLS90-R/CXB-A10L02	警音 Police siren sound		AC/DC24V			
CLS90-R/CXM-A10L02			AC220V			

CLS90-□

塔灯
90°方形可折叠安装式
Tower light
90° square folding
mounting type



常用型号 Common Model

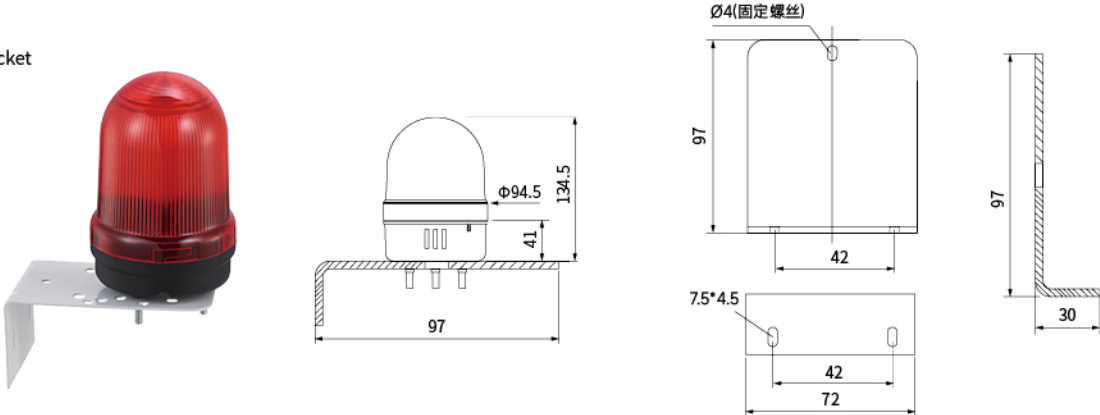
产品型号 Product model	发声形式 Form of vocalization	发光形式 Luminescence type	电压 Voltage	安装底座款式 Installation base	连接杆尺寸 Connecting rod	电线长度 Wire length
CLS90-R/XB-C10L02	/	旋转 Rotate	AC/DC24V	90°方形可折叠式 安装式 90° square foldable installation type	10cm	0.2m
CLS90-R/XM-C10L02	/		AC220V			
CLS90-R/CXB-C10L02	警音 Police siren sound		AC/DC24V			
CLS90-R/CXM-C10L02			AC220V			

注：以上为常用型号参考，未在表格内的参考选型说明，如需磁铁固定，请咨询昌得代表处。

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外观和尺寸 Appearance and Dimension

CLS90-□
塔灯
L 型支架
Tower light
L-shaped bracket



常用型号 Common Model

产品型号 Product model	发声形式 Form of vocalization	发光形式 Luminescence type	电压 Voltage	安装底座款式 Installation base	电线长度 Wire length
CLS90-R/XB-EL02	/	旋转 Rotate	AC/DC24V	L型支架 L-shaped bracket	0.2m
CLS90-R/XM-EL02	/		AC220V		
CLS90-R/CXB-EL02	警音 Police siren sound		AC/DC24V		
CLS90-R/CXM-EL02			AC220V		

注：以上为常用型号参考，未在表格内的参考选型说明，如需磁铁固定，请咨询昌得代表处。
Note: The above is a reference for commonly used models. For selection instructions not included in the table, or if magnetic fixation is required, please consult the Changde representative office.

CLS90固定安装支架 Fixed Mounting Bracket

外形图 Outline Drawing	
CLS90 螺丝固定 Screw fixation Adjacent centers: 53.7mm (calculated). Reference: 62mm circle at 120 degrees.	
CLS90-A 圆盘安装式 Disc mount	

CLS90固定安装支架 Fixed Mounting Bracket

外形图 Outline Drawing	
CLS90-B 螺母侧安装式 Nut side mounting type	
CLS90-C 90°方形可折叠式安装 Square folding mounting	
CLS90-E L型支架 L-shaped bracket	

安全使用和注意事项 Safety Instructions and Precautions

- 1.在安装、配线、操作本产品前必须先切断电源。

2.检查产品是否符合选型要求。

3.应在额定电压下使用。

4.防止垃圾、导电粉末、导电液体等杂质进入产品内部。

5.安装固定结实。

6.注意保护导线不要受到外力冲击或者磨损，以免造成漏电或者开路等不良。
- 1.Before installing, wiring, or operating this product, the power supply must be cut off first.

2.Check whether the product meets the requirements of the selected model.

3.It should be used at the rated voltage.

4.Prevent impurities such as garbage, conductive powder, and conductive liquid from entering the interior of the product.

5.Ensure the installation is fixed firmly.

6.Pay attention to protecting the wires from external impact or wear and tear to avoid potential defects such as electric leakage or open circuit.

检修与维护 Maintenance and Overhaul

1. 检修与维护本产品适应断开电源，以免出现安全事故。
2. 对于复杂的故障或不熟悉的电子产品，建议寻求专业维修人员或厂家售后的帮助。未经专业培训，勿尝试拆解高压、高精度部件，以免造成人身伤害或设备进一步损坏。

1. When maintaining or overhauling this product, the power supply should be disconnected to avoid safety accidents.
2. For complex faults or unfamiliar electronic products, it is recommended to seek help from professional maintenance personnel or the manufacturer's after-sales service. Do not attempt to disassemble high-voltage or high-precision components without professional training, as this may cause personal injury or further equipment damage.

使用注意事项 Using Precautions

本公司产品是作为工业产品而设计生产，严格遵守工业产品标准。我司明确声明，除非经过特殊设计并得到我司明确书面确认，我司产品不适用于以下应用场合：

- 要求极高可靠性的应用场合，包括核能、燃气、电力等要求长期稳定运行的系统。
- 要求极高安全性的应用场合，涉及人身安全与财产的情况。
- 苛刻条件、严酷环境的应用场合，包括室外、存在化学污染、电磁、振动或冲击影响的环境。
- 有火灾或爆炸风险的应用场合，包括存在易燃易爆性气体、强酸强碱化学品等物质的环境。
- 涉及军工用途、航天航空项目的应用场合。

The company's products are designed and produced as industrial products, in strict compliance with industrial product standards. We expressly declare that, unless specifically designed and expressly confirmed by us in writing, our products are not intended for the following applications:

- Applications that require high reliability, including nuclear, gas, electric and other systems that require long-term stable operation.
- Applications requiring very high security, situations involving personal safety and property.
- Applications in harsh conditions, harsh environments, including outdoor, chemical contamination, electromagnetic, vibration or shock effects.
- Applications where there is a risk of fire or explosion, including environments where flammable and explosive gases, strong acids and alkali chemicals are present.
- Applications involving military use and aerospace projects.