



- 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) ;
 - 灯罩采用钻石棱镜切割工艺, 可使光线更均匀, 质感温润饱满, 清澈明亮;
 - 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);
 - The lampshade adopts the diamond prism cutting process, which can make the light more uniform, with a warm and full texture, clear and bright;
 - 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

CTM 70 - □ / □ □ □ / □ - □ □ L06 - □ □

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	CTM	多功能型多层警示灯 Multi-functional Multi-layer Warning Light
②	外形尺寸 Overall dimension	70	Ø70
③	层数颜色 Layer color	R	红 R
		RG	红绿 R G
		RYG	红黄绿 R Y G
		RYGB	红黄绿蓝 R Y G B
		RYGBW	红黄绿蓝白 R Y G B W
		注: 颜色可任意组合 Note: Colors can be combined arbitrarily	
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	S	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright
⑥	电压 Voltage	D	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)
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	A	圆盘安装式 Disc moun
		B	螺母侧安装式 Nut side mounting type
		C	90°方形可折叠安装式 90° square folding mounting type
		注: 默认为圆盘安装式 Note: The default is the disc-mounted type	
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	L06	电线长度 0.6m Length of the wire is 0.6m
		L1~L5	L1表示1米线 (线长不仅限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
		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	CTM70		
颜色 Color	红色 Red		
工作电压 Working voltage	DC12V	DC24V	AC220V
工作电流 Working current	Max:8mA	Max:37mA	Max:50mA
功率 Power (W)	0.10	0.89	0.49
颜色 Color	黄色 Yellow		
工作电压 Working voltage	DC12V	DC24V	AC220V
工作电流 Working current	Max:8mA	Max:37mA	Max:53mA
功率 Power (W)	0.10	0.89	0.55
颜色 Color	绿色 Green		
工作电压 Working voltage	DC12V	DC24V	AC220V
工作电流 Working current	Max:5mA	Max:32mA	Max:53mA
功率 Power (W)	0.06	0.77	0.65
颜色 Color	蓝色 Blue		
工作电压 Working voltage	DC12V	DC24V	AC220V
工作电流 Working current	Max:5mA	Max:32mA	Max:53mA
功率 Power (W)	0.06	0.77	0.65
颜色 Color	白色 White		
工作电压 Working voltage	DC12V	DC24V	AC220V
工作电流 Working current	Max:5mA	Max:32mA	Max:53mA
功率 Power (W)	0.06	0.77	0.65

DC power = nominal voltage x maximum channel current, rounded; AC power is specified separately.

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

特性 Characteristics

型号 Model			CTM70	CTM70-A
声音大小 Volume of sound (Max.dB)			/	95
闪亮频率 Shining frequency			55~65 次 /min 60	
外形尺寸 Outline dimensions	平面直径 Plane diameter		70	
	高度 Height	一节 Morceau	120	
		二节 Two-section	174	
		三节 Three-section	228	
		四节 Four-section	282	
		五节 Five-section	336	
材质 Material	灯罩 Lampshade		PC（聚碳酸酯）	
	底座 Base		ABS	
	反射体 Reflector		耐热 ABS Heat-resistant ABS	
电源线规格 Power cord specification			UL1007	
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	

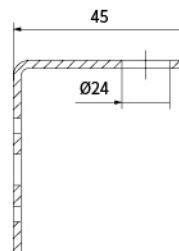
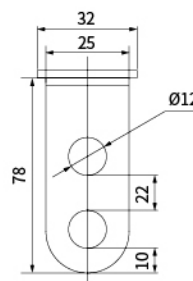
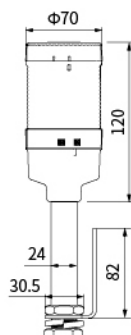
国际认证规格 International Certification Specifications

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

外观和尺寸 Appearance and Dimension

CTM70-□

一层警示灯
螺母侧安装式
One layer warning
lights, 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
CTM70-R/SD-B26L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	螺母侧安装式 Nut side mounting type	26cm	0.6m
CTM70-R/ASD-B26L06	滴声间断 Intermittent drip					
CTM70-R/CSD-B26L06	警音 Police siren sound					

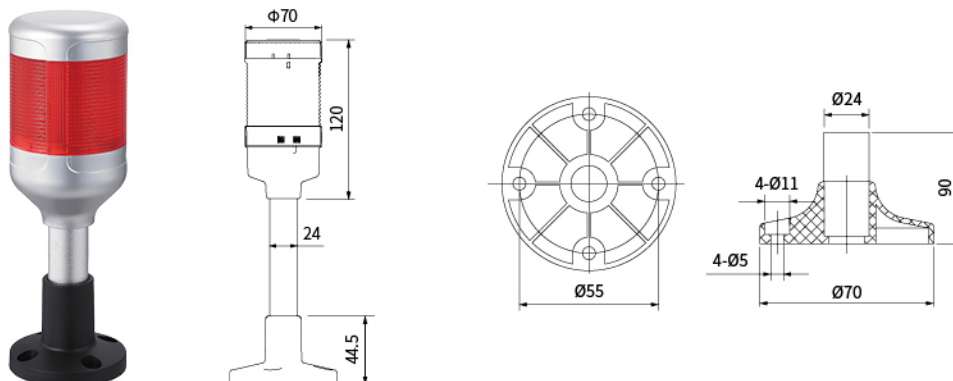
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Note: The above is a common model reference, not in the table reference selection description.

外观和尺寸 Appearance and Dimension

CTM70-□

一层警示灯
圆盘安装式
One layer of warning
lights, disc installation
type

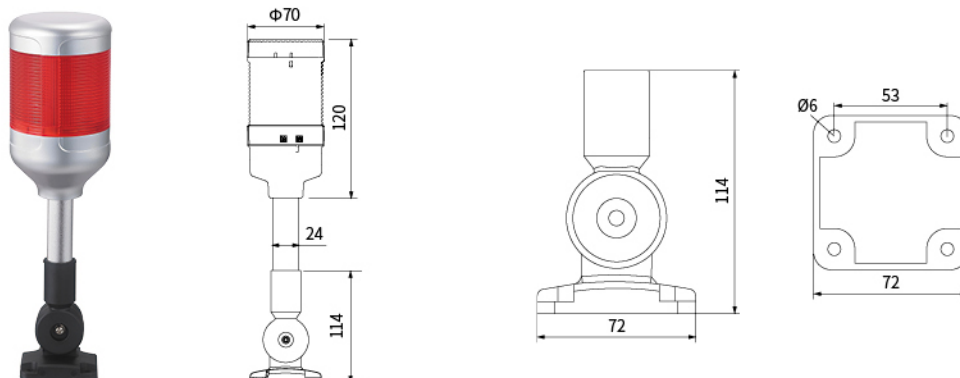


常用型号 Common Model

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
CTM70-R/SD-A10L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	圆盘安装式 Disc moun	10cm	0.6m
CTM70-R/ASD-A10L06	滴声间断 Intermittent drip					
CTM70-R/CSD-A10L06	警音 Police siren sound					

CTM70-□

一层警示灯
90°方形可折叠安装式
One layer warning lights
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
CTM70-R/SD-C10L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	90°方形可折叠安装式 90° square folding mounting type	10cm	0.6m
CTM70-R/ASD-C10L06	滴声间断 Intermittent drip					
CTM70-R/CSD-C10L06	警音 Police siren sound					

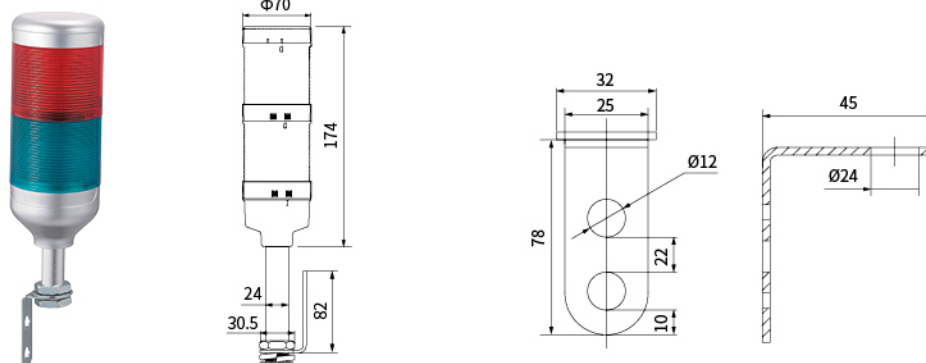
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外观和尺寸 Appearance and Dimension

CTM70-□□

二层警示灯
螺母侧安装式
Two layer warning lights
nut side mounting type

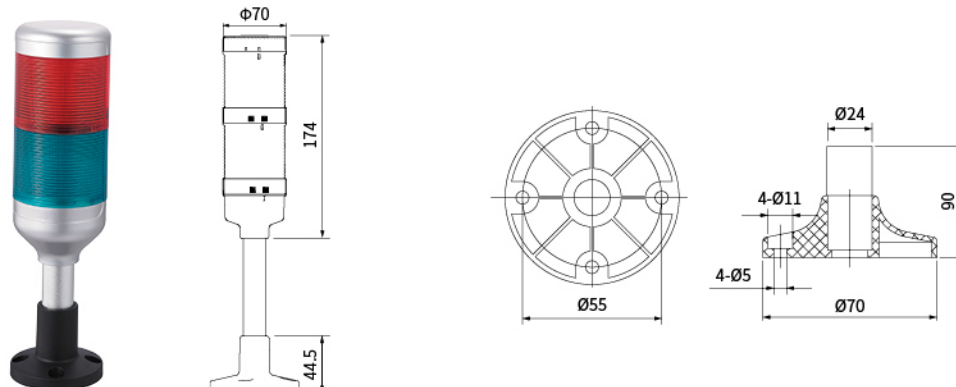


常用型号 Common Model

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
CTM70-RG/SD-B26L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	螺母侧安装式 Nut side mounting type	26cm	0.6m
CTM70-RG/ASD-B26L06	滴声间断 Intermittent drip					
CTM70-RG/CSD-B26L06	警音 Police siren sound					

CTM70-□□

二层警示灯
圆盘安装式
Two layer of warning
lights, disc installation
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
CTM70-RG/SD-A10L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	圆盘安装式 Disc moun	10cm	0.6m
CTM70-RG/ASD-A10L06	滴声间断 Intermittent drip					
CTM70-RG/CSD-A10L06	警音 Police siren sound					

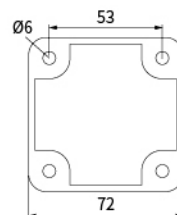
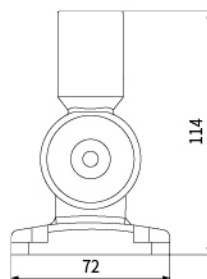
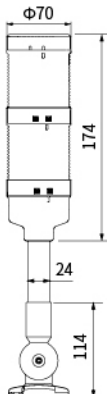
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外观和尺寸 Appearance and Dimension

CTM70-□□

二层警示灯
90°方形可折叠安装式
Two layer warning
lights, 90° square
folding mounting type

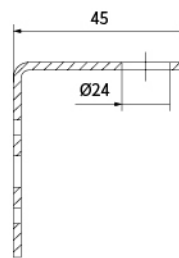
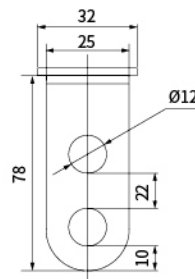
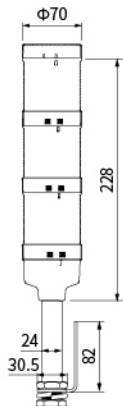


常用型号 Common Model

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
CTM70-RG/SD-C10L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	90°方形可折叠安装式 90° square folding mounting type	10cm	0.6m
CTM70-RG/ASD-C10L06	滴声间断 Intermittent drip					
CTM70-RG/CSD-C10L06	警音 Police siren sound					

CTM70-□□□

三层警示灯
螺母侧安装式
Three layer warning
lights, 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
CTM70-RYG/SD-B26L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	螺母侧安装式 Nut side mounting type	26cm	0.6m
CTM70-RYG/ASD-B26L06	滴声间断 Intermittent drip					
CTM70-RYG/CSD-B26L06	警音 Police siren sound					

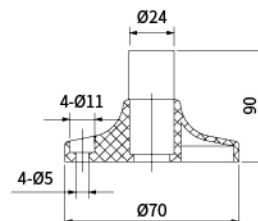
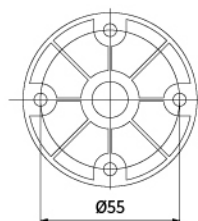
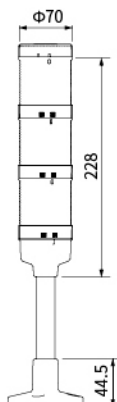
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外观和尺寸 Appearance and Dimension

CTM70-□□□

三层警示灯
圆盘安装式
Three layer of warning
lights, disc installation
type

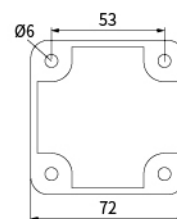
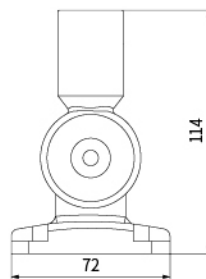
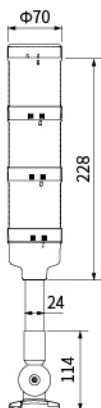


常用型号 Common Model

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
CTM70-RYG/SD-A10L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	圆盘安装式 Disc moun	10cm	0.6m
CTM70-RYG/ASD-A10L06	滴声间断 Intermittent drip					
CTM70-RYG/CSD-A10L06	警音 Police siren sound					

CTM70-□□□

三层警示灯
90°方形可折叠安装式
Three layer warning
lights, 90° square
folding mounting type



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
CTM70-RYG/SD-C10L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	90°方形可折叠安装式 90° square folding mounting type	10cm	0.6m
CTM70-RYG/ASD-C10L06	滴声间断 Intermittent drip					
CTM70-RYG/CSD-C10L06	警音 Police siren sound					

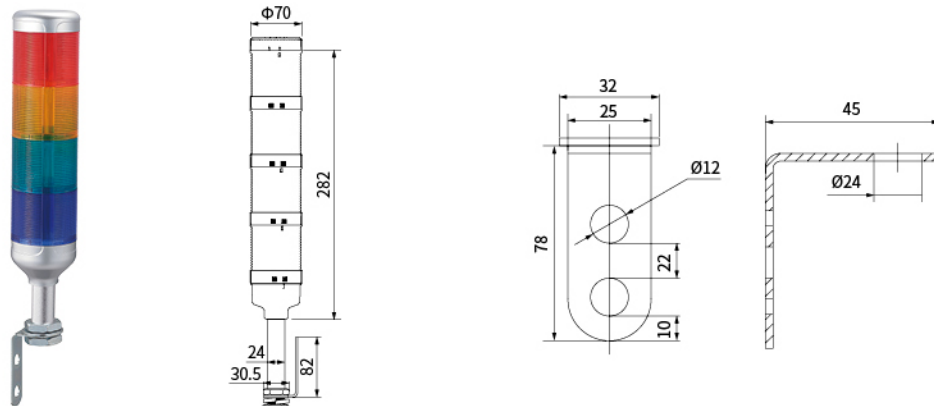
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外观和尺寸 Appearance and Dimension

CTM70-□□□□

四层警示灯
螺母侧安装式
Four layer warning
lights, nut side
mounting type

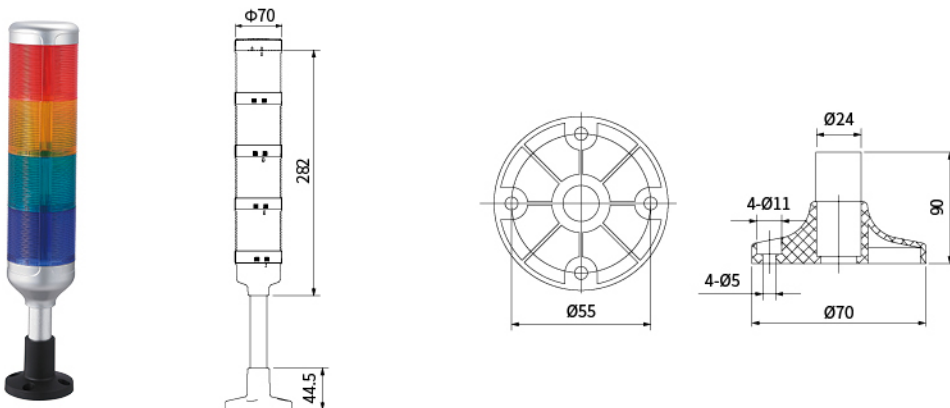


常用型号 Common Model

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
CTM70-RYGB/SD-B26L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	螺母侧安装式 Nut side mounting type	26cm	0.6m
CTM70-RYGB/ASD-B26L06	滴声间断 Intermittent drip					
CTM70-RYGB/CSD-B26L06	警音 Police siren sound					

CTM70-□□□□

四层警示灯
圆盘安装式
Four layer of warning
lights, disc installation
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
CTM70-RYGB/SD-A10L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	圆盘安装式 Disc moun	10cm	0.6m
CTM70-RYGB/ASD-A10L06	滴声间断 Intermittent drip					
CTM70-RYGB/CSD-A10L06	警音 Police siren sound					

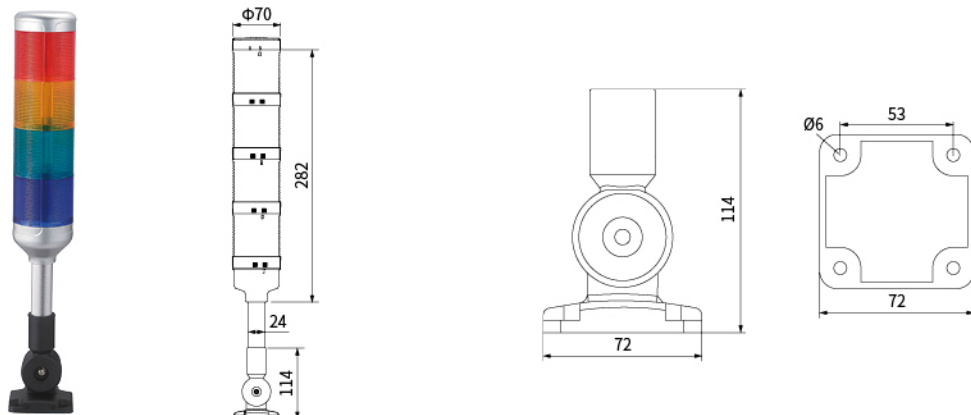
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外观和尺寸 Appearance and Dimension

CTM70-□□□□

四层警示灯
90°方形可折叠安装式
Four layer warning
lights, 90° square
folding mounting type

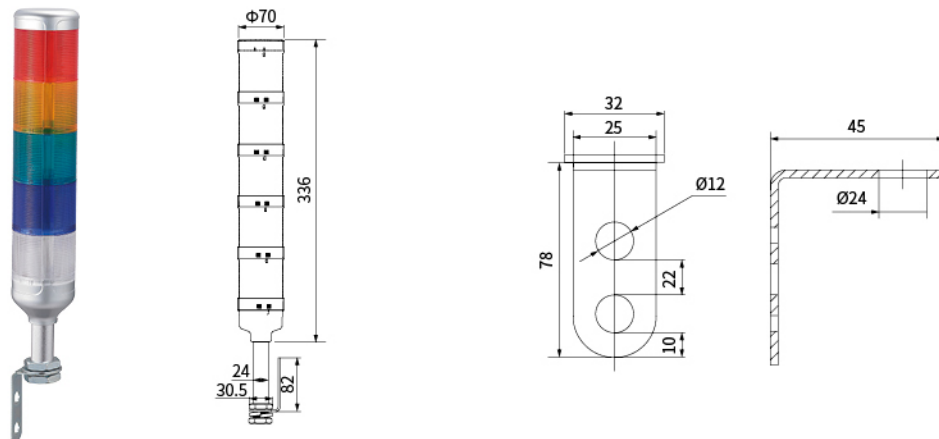


常用型号 Common Model

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
CTM70-RYGB/SD-C10L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	90°方形可折叠安装式 90° square folding mounting type	10cm	0.6m
CTM70-RYGB/ASD-C10L06	滴声间断 Intermittent drip					
CTM70-RYGB/CSD-C10L06	警音 Police siren sound					

CTM70-□□□□□

五层警示灯
螺母侧安装式
Five layer warning
lights, 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
CTM70-RYGBW/SD-B26L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	螺母侧安装式 Nut side mounting type	26cm	0.6m
CTM70-RYGBW/ASD-B26L06	滴声间断 Intermittent drip					
CTM70-RYGBW/CSD-B26L06	警音 Police siren sound					

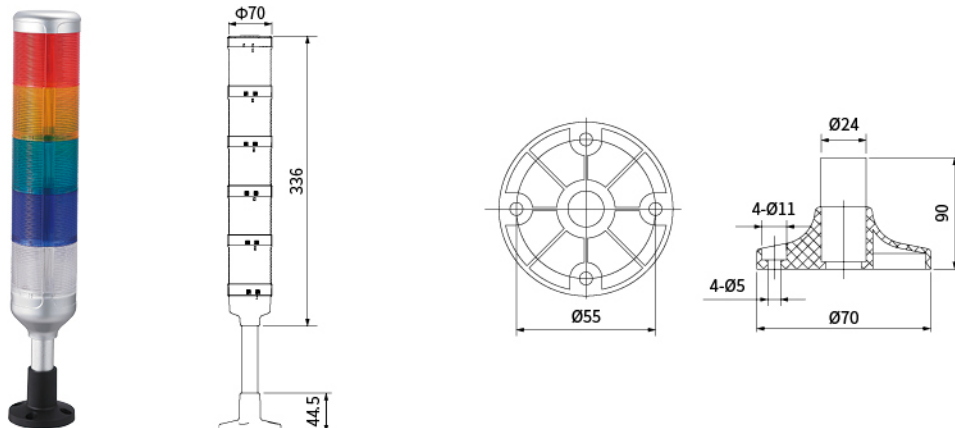
注：以上为常用型号参考，未在表格内的参考选型说明。

Note: The above is a common model reference, not in the table reference selection description.

外观和尺寸 Appearance and Dimension

CTM70-□□□□□

五层警示灯
圆盘安装式
Five layer of warning
lights, disc installation
type

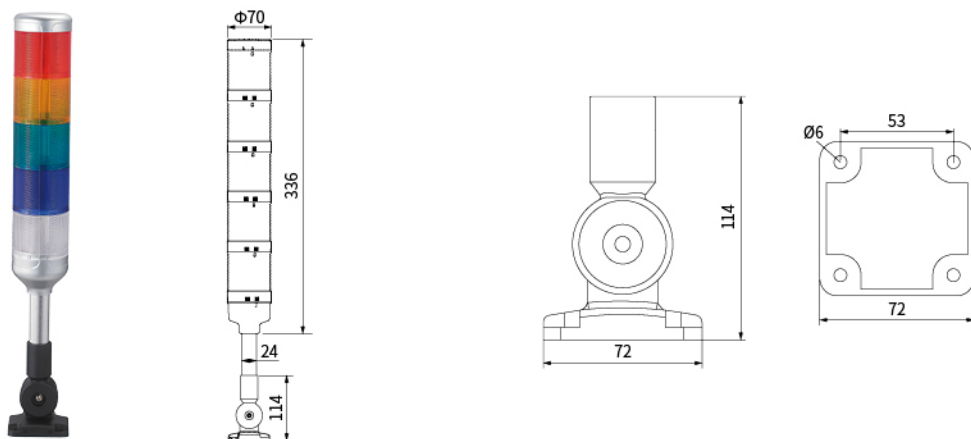


常用型号 Common Model

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
CTM70-RYGBW/SD-A10L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	圆盘安装式 Disc moun	10cm	0.6m
CTM70-RYGBW/ASD-A10L06	滴声间断 Intermittent drip					
CTM70-RYGBW/CSD-A10L06	警音 Police siren sound					

CTM70-□□□□□

五层警示灯
90°方形可折叠安装式
Five layer warning
lights, 90° square folding
mounting type



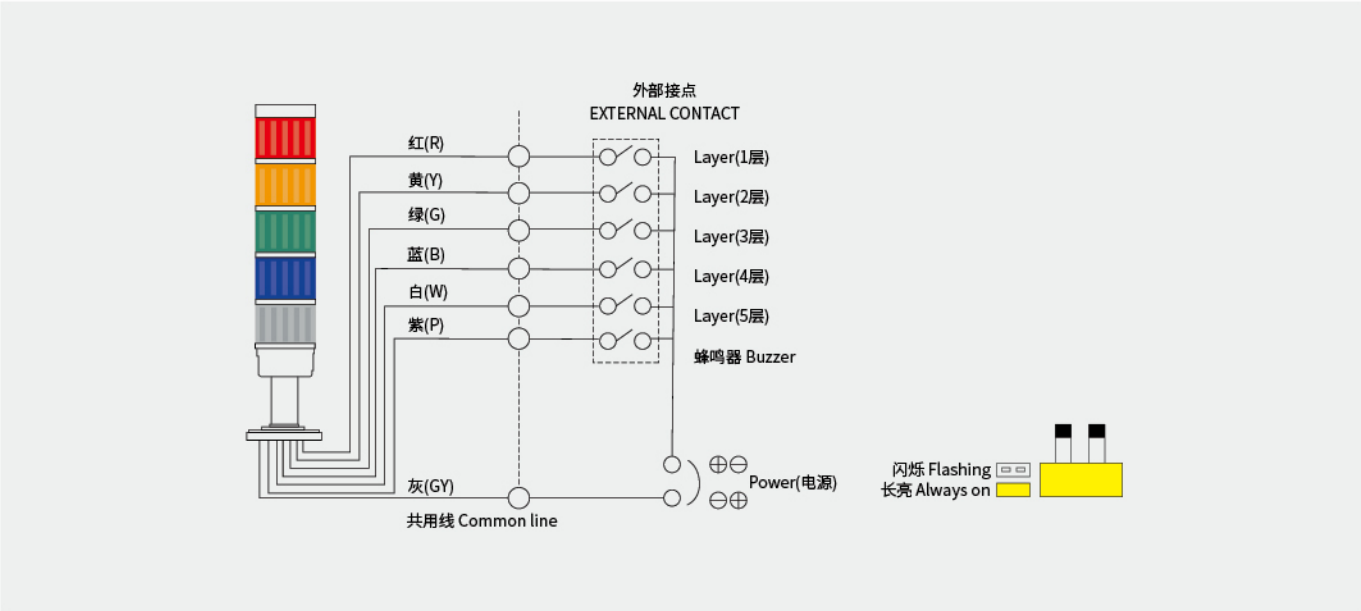
常用型号 Common Model

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
CTM70-RYGBW/SD-C10L06	/	闪亮/常亮可调, 出厂默认常亮 Sparkle / steady on adjustable, factory default bright	AC/DC12V, AC/DC24V, AC220V (可调 Adjustable)	90°方形可折叠安装式 90° square folding mounting type	10cm	0.6m
CTM70-RYGBW/ASD-C10L06	滴声间断 Intermittent drip					
CTM70-RYGBW/CSD-C10L06	警音 Police siren sound					

注: 以上为常用型号参考, 未在表格内的参考选型说明。

Note: The above is a common model reference, not in the table reference selection description.

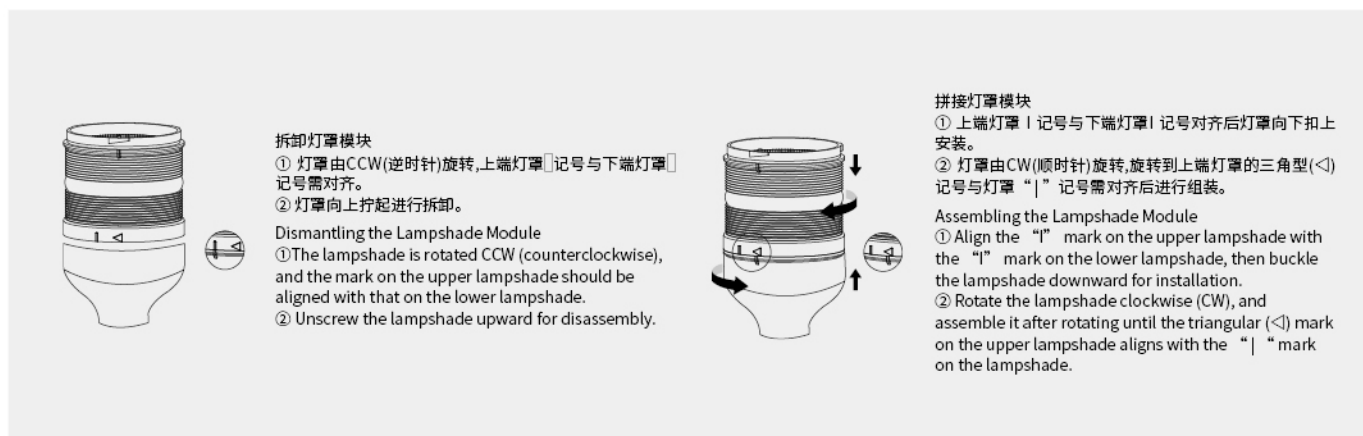
内部调节说明/原理图 Internal adjustment instructions / schematic diagram



CTL70固定安装支架 Fixed Mounting Bracket

外形图 Outline Drawing	
CTL70-MA 圆盘安装式 Disc mount	Front view: Ø55, 4-Ø11, 4-Ø5, Ø24, 90, Ø70. Side view: Ø24, 90, Ø70, 4-Ø11, 4-Ø5.
CTL70-MB 螺母侧安装式 Nut side mounting type	Front view: 32, 25, 78, Ø12, 22, 10. Side view: 45, Ø24.
CTL70-MC 90°方形可折叠式安装 Square folding mounting	Front view: 72, 114. Side view: 53, 72, Ø6.

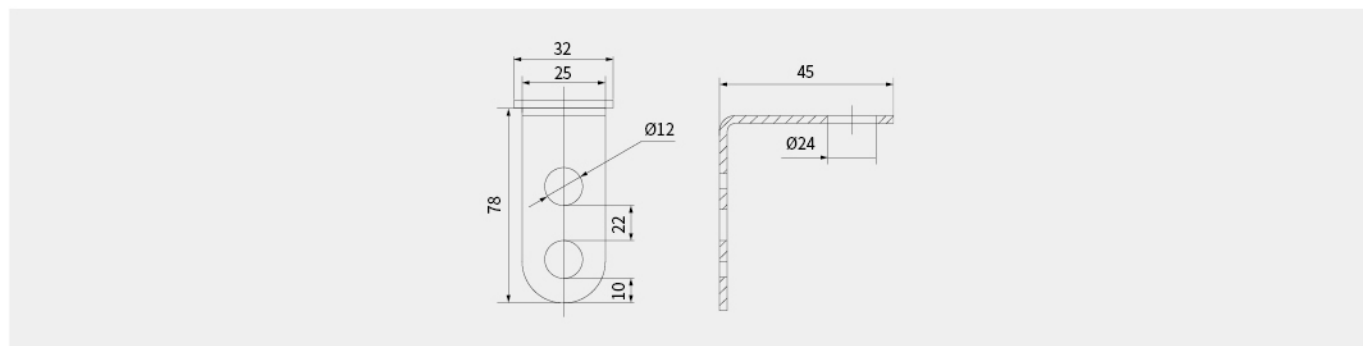
运作模式选择/ 支架孔规格 Operation Mode Selection / Bracket Hole Specifications



支架孔规格 Bracket Hole Specifications

① 产品安装的位置上进行加工安装孔, 安装孔规格如下

① Process installation holes at the product installation position. The specifications of the installation holes are as follows:



Use the fixing pattern shown for the selected bracket; secure its mounting hardware.

③ 请确认拧紧的凸缘螺母固定状态

Insert the selected bracket fixings into the matching installation holes and tighten the flange nuts.

③ Please confirm the fixing status of the tightened flange nuts.

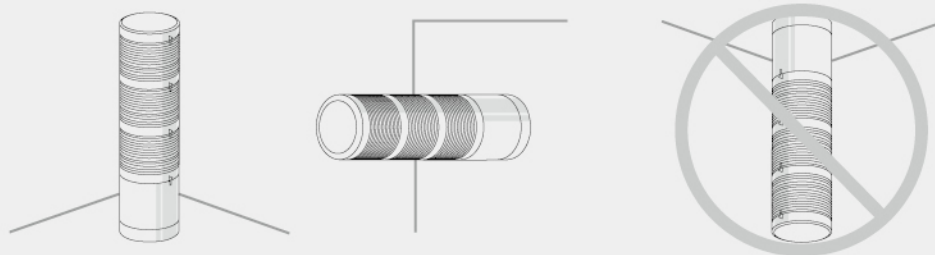
产品安装方向 Product Installation Direction

安装产品时, 请注意产品安装方向, 若安装方向不正确, 可能会导致雨水或水份进入产品内部。

When installing the product, please pay attention to the product installation direction. If the installation direction is incorrect, it may cause rainwater or moisture to enter the interior of the product.

请勿将电源线出线部朝上组装。

Do not assemble the power cord outlet part upwards.



*防水等级不满足IPX4的产品, 安装产品时请将产品与地面成垂直状态。

*For products whose waterproof grade does not meet IPX4, please install the product vertically to the ground.

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，勿尝试拆解高电压、高精密部件，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.