◆ 产品特点 Product feature

◆ 用于化工、炼油、食品加工、石油开采、海洋石油平台、油轮、隧道管廊、军工、航天、制药、冶金、矿产等存在可燃气体及粉尘的危险场所；

◆ Can be used in hazardous area which includes combustible and dust gas, such as chemical engineering, oil refinery, food processing, oil exploitation, offshore oil platform, tanker, tunnel pipe gallery, military industry, spaceflight, pharmacy, metallurgy, mineral products and etc.

◆ 外壳采用铸铝合金压铸成型，经高速抛丸、高频清洗后，表面高压静电喷塑，提高了防腐性能，不锈钢外露紧固件，外形美观；

◆ The enclosure is die casting by aluminum alloy, the corrosion-proof performance improved, the surface is high voltage static spraying after shot-blasting and high frequency cleaning.The exposed fastener is stainless steel. Beautiful appearance.

◆ 适用于炸性气体环境1区、2区，ⅡA、ⅡB、ⅡC类爆炸性气体；

◆ Can be used in Zone 1, Zone 2, IIC, IIB, IIA type combustible gas environment.

◆ 适用于炸性粉尘环境21区、22区，ⅢA、ⅢB、ⅢC类爆炸性粉尘；

◆ Can be used in Zone 21, Zone 22, IIC, IIB, IIA type combustible dust environment.

◆ 透明罩采用棱晶钢化玻璃，防眩光，满足4J能量冲击；

◆ The transparent cover is ribbed toughened glass, which can hold 4J energy impact, anti glare.

◆ 可根据需求配置不同颜色的报警装置，可选：红、绿、黄；

◆ Can be equipped with different color as per client requirements(Optional in red, green, yellow)

◆ 低频率高光强障碍灯可用于铁塔（电力，通信，微波等），烟囱（火电厂，焦化厂，化工厂等），高层建筑，大型桥梁，大型港口机械，大型工程机械，风力发电机等需要对航空器起警示作用的场合。

◆ The low luminous intensity obstruction lighting can be used in tower(electricity, communication, microwave, etc.), chimney(heat-engine plant, coking plant, chemical plant), high-rise buildings, large bridge, harbour machinery, engineer machinery, wind driven generator, where needs alarm the aircraft.
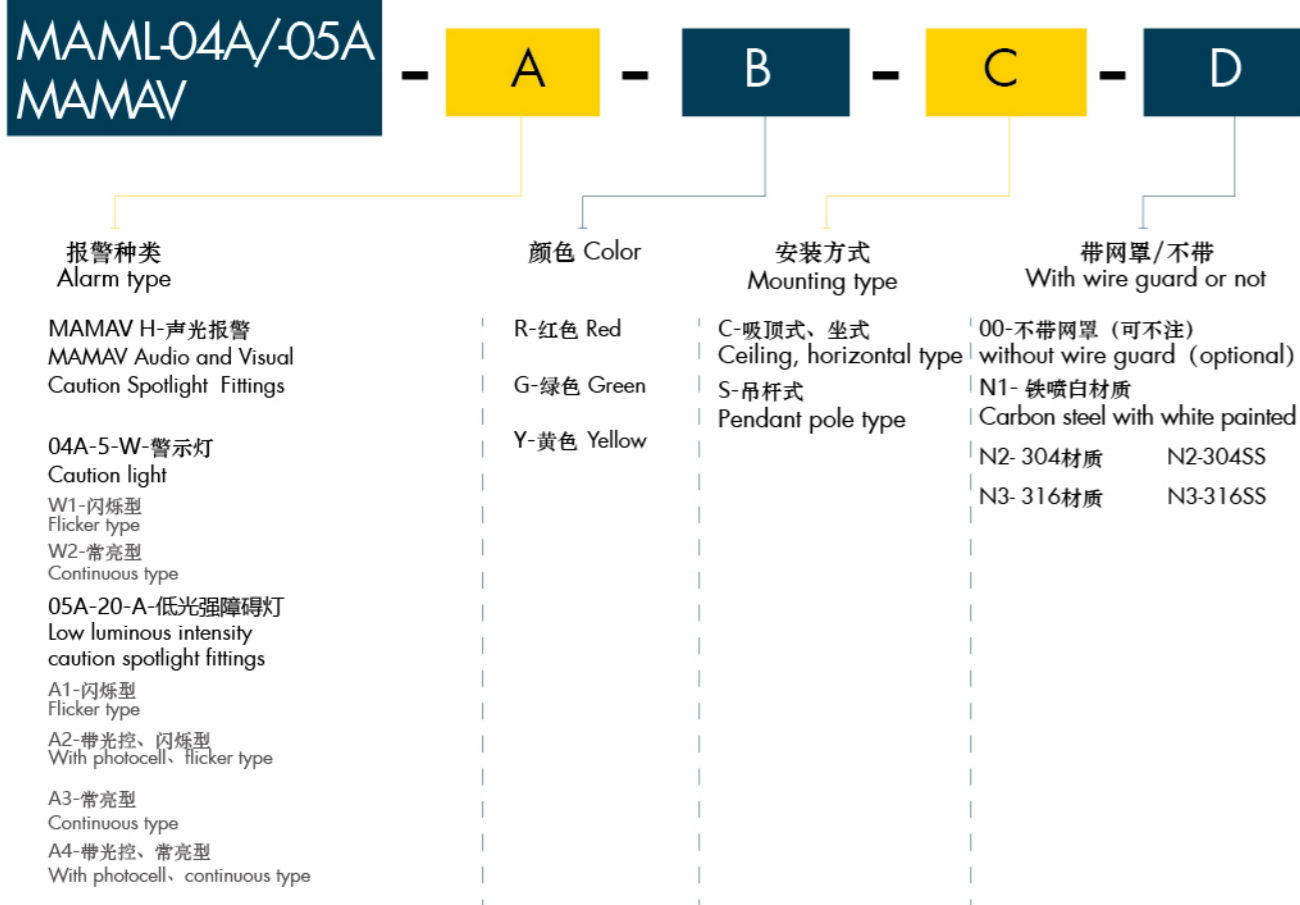
◆ 电缆或钢管布线。

◆ Wiring with cable or steel pipe.

MAMAV

MAML-04A/-05A系列防爆灯具(报警装置)
MAML-04A/-05A Series Explosion-proof Lighting Fixtures

MAM EXPLOSION-PROOF

低温 -45℃ Low temperature	高温 +60℃ High temperature	气体 dbⅡC Gas	粉尘 tbⅢC Dust	防护 IP66 protection degree

◆ 型号含义 Model meaning

MAML-04A/-05A MAMAV - A - B - C - D

报警种类 Alarm type

MAMAV H-声光报警
MAMAV Audio and Visual
Caution Spotlight Fittings

04A-5-W-警示灯
Caution light
W1-闪烁型
Flicker type
W2-常亮型
Continuous type

05A-20-A-低光强障碍灯
Low luminous intensity
caution spotlight fittings
A1-闪烁型
Flicker type
A2-带光控、闪烁型
With photocell, flicker type
A3-常亮型
Continuous type
A4-带光控、常亮型
With photocell, continuous type

颜色 Color
R-红色 Red
G-绿色 Green
Y-黄色 Yellow

安装方式 Mounting type
C-吸顶式、坐式
Ceiling, horizontal type
S-吊杆式
Pendant pole type

带网罩/不带 With wire guard or not
00-不带网罩（可不注）
without wire guard（optional）
N1-铁喷白材质
Carbon steel with white painted
N2-304材质   N2-304SS
N3-316材质   N3-316SS

举例1：防爆灯具，要求声光报警，座式安装，报警颜色为黄色，带铁喷白网罩，则型号为：MAMAV-H-Y-C-N1
For example #1: Explosion-proof caution spotlight, with audio and visual caution spotlight fittings, horizontal mounting type, caution color is yellow, with white coating wire guard, the model No. is MAMAV-H-Y-C-N1.

举例2：防爆灯具，要求低频低光强障碍灯闪烁型并带光控，座式安装，报警颜色为红色，带304不锈钢网罩，则型号为：MAML-05A-5-A2-R-C-N2
For example #2: Explosion-proof caution spotlight, low luminous intensity caution spotlight with photocell, horizontal mounting type, caution color is red, with SS304 wire guard, the model No. is MAML-05A-5-A2-R-C-N2.

◆ 技术参数 Technical parameter

环境温度 Ambient Temperature	防爆标志 Ex Marking		
	GB	IECEX	ATEX
-45℃ ~ +60℃	Ex db ⅡC T6 Gb Ex tb ⅢC T80℃ Db	Ex db ⅡC T6 Gb Ex tb ⅢC T80℃ Db	Ⓔx Ⅱ 2G Ex db ⅡC T6 Gb Ⓔx Ⅱ 2D Ex tb ⅢC T80℃ Db
遵循标准 Conformity to standards	GB/T 3836.1 GB/T 3836.2 GB/T 3836.4 GB/T 3836.31 IEC/EN60079-0 IEC/EN60079-1 IEC/EN60079-11 IEC/EN60079-31		
防护等级 IP	IP66		
保护壳材质 Enclosure Material	铸铝ZL102材料 Aluminium alloy ZL102 material code		
保护壳喷涂材质及颜色 Powder coated and color	静电喷涂，颜色国际标号：RAL 7090 Electrostatic powder coating,International standard color code:RAL 7090		
透明罩 Transparent cover	棱晶钢化玻璃，抗4J冲击 Ribbed toughened glass, stands 4J impact		
外露紧固件材料 The material of Exposed fastener	SS304/SS316 不锈钢 SS304/SS316 stainless steel		
光源及灯具功率 Lamp and lamp power	LED光源，功率：5~20W LED lamp, power: 5~20W		
额定电压及频率 Rated voltage &HZ	AC/DC: 12/24/36V/48V AC: 220~240V 50/60HZ		
允许最大进线电缆规格及电缆外径 Maximum entry cable specifications and cable OD.	3x2.5mm（铠装电缆、橡塑电缆）/ 电缆外径范围：10~14mm 3x2.5mm (armored cable, rubber and plastic rubber) / cable OD range:10~14mm		
灯具进线口螺纹规格 Lighting fixture cable entry thread	标配M25×1.5，其它NPT3/4、G3/4等特殊螺纹下单时注明； Standard M25 x 1.5, other NPT3/4, G3/4 and other special thread indicate;		

注：格兰由客户单独订购，本产品销售不含进线口的格兰。
Note: Cable gland is ordered separately by the customer. The sales of this product does not include Cable gland with inlet.

◆ 产品选型技术参数 Technical data

型号规格 Model No. specifications	报警种类 Caution type	闪光次数/分钟 flash frequency (times/min)	声音强度dB Sound intensity dB	产品净重Kg Net weight Kg	温度组别 Tc Temperature ClassesTc
MAMAV-H	声光报警 Audio and visual caution	136	≥110	3.6	
MAML -04A-5-W	警示灯（闪烁型W1）Caution light (flash type W1)	136	/	3.5	
	警示灯（常亮型W2）Caution light (continuous type W2)	/	/		
	低光强障碍灯（闪烁型A1）Low luminous intensity caution spotlight(flash type A1)	45	/		
MAML -05A-20-A	低光强障碍灯（带光控、闪烁A2）Low luminous intensity caution spotlight(with photocell, flash type A2)	45	/	3.3	T6
	低光强障碍灯(常亮型A3)Low luminous intensity caution spotlight(continuous type A3)	/	/		
	低光强障碍灯（带光控、常亮型A4）Low luminous intensity caution spotlight(with photocell, continuous type A4)	/	/		

说明：低光强障碍灯的光控开关灵敏度：70/100lux   Note: sensitive of low luminous intensity caution spotlight photocell switch: 70/100lux

53 做真正安全的产品，让世界没有危险区域
To be safe product indeed,to be safe area in need.

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◆ 产品优势介绍 Product advantage and features

01

本产品可内置声光报警装置、单独闪光装置、单独障碍灯装置，并且发光颜色多色可选，根据需要配置，通用性强。安装方式多样，可以根据用户要求选择座式、吸顶式、壁式、吊杆式、立杆座式等。

The lighting fixture can install visual and caution device, only flash device, only obstacle device, with multicolor optional. It can be customized as per requirements, high universality. The mounting type is diversity, it can be choose as per client requirements: horizontal type, ceiling type, wall type, pendent pole type, pole type etc.

02

灯具接线腔与灯体采用无线连接方式，客户端接线可避免绕线问题。

The connection between lighting fixture and wiring cavity is wireless connection structure, which avoid wire wrapping problem.

03

接线腔内的接线盘采用专利的快捷取出结构设计，提高现场安装效率。

The wiring panle inside wiring cavity is patented quickly removed struction type, which improved the site installation efficiency.
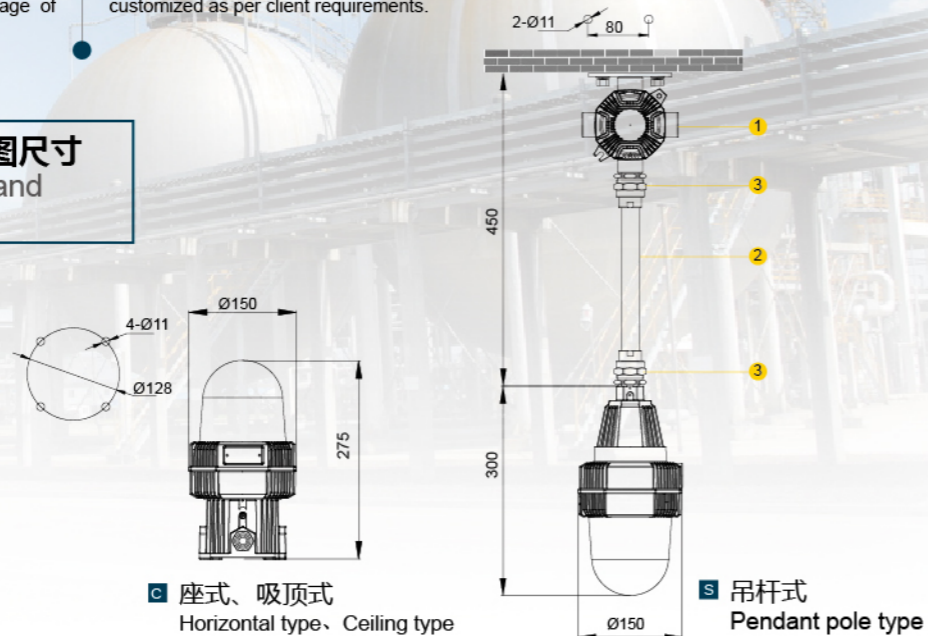
04

座式、吸顶式接线腔方便分线，最多可加工4处通头孔，且接线盘具备2组端子，方便现场分线布线，减少接线盒使用，节省成本；

Horizontal type, ceiling type wiring cavity are convenient for branching, the maximum quantity of cable entries is 4, there are 2 sets of terminals for wiring panel, which convenient for branching and wiring in site, and reducing the usage of terminals box and saving cost.

05

灯具采用高强度棱晶钢化玻璃罩，钢化玻璃罩可耐4J冲击，防眩光设计，照射角度大（见配电曲线图）。可根据用户需要配置网罩。

The lighting fixture use high strength ribbed toughened glass cover, which can stand the 4J impact, anti-glare, with wide angel(see photometric date). The wire guard can be customized as per client requirements.

◆ **产品外形及安装示意图尺寸**
Dimension drawings and installation reference

2-Ø11 80

450

300

4-Ø11
Ø150
Ø128

275

Ø150

C 座式、吸顶式
Horizontal type、Ceiling type

S 吊杆式
Pendent pole type

◆ 以上 ● 序号产品信息请见P137-138页配件清单表，配件配置情况详见P139-P140。

低温 -45℃ Low temperature | 高温 +60℃ High temperature | 气体 dbⅡC Gas | 粉尘 tbⅢC Dust | 防护 IP66 protection degree

◆ 产品爆炸图 Technical parameters

棱晶钢化玻璃罩
Ribbed toughened glass cover

罩圈 Cover ring

报警装置颜色区分罩
Color discrimination mask for alarm device

玻璃罩螺纹压圈
Glass cover thread ring

O ring O型密封圈

顶紧螺丝
Fastening screw

发声装置
Audio device

报警装置固定腔
Caution device fixed cavity

接线盘（与底部形成无线连接）
Wiring tray (a wireless connection with bottom)

O ring O型密封圈

接线用腔体及安装底座
Connection cavity and mounting base