

使用说明书

安装, 调整, 维修设备前, 请阅读并理解说明书。

	注 意 危险电压会引起触电和燃烧。 调整、维修前请先切断电源。
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概述

主要用途

AD16-22D系列(SW)型指示灯适用于《GD22 电气电子产品型式认可试验指南》中1.3.2条款规定的B类环境, 利用光信号作指示的场合。

型号的组成及其代表意义

AD 16 - 22 D □ / □ □ □ □
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① 指示灯型号
- ② 设计序号
- ③ 基本规格代号(表示安装孔径22mm)
- ④ 外形特征及功能代码, 灯罩壳体二层型但灯罩和壳体直径相同
- ⑤ 表示显示符号代码, 见表2
- ⑥ 表示指示灯颜色
颜色分: r(红) g(绿) y(黄) b(蓝) w(白) o(橙)
- ⑦ 电压代码, 见表1
- ⑧ 特征代码: 表示指示灯壳体长短。无字母为标准型, 加注"S"为超短型壳体(AC/DC 220V及以上电压不能做超短型)
- ⑨ 头部防护等级: IP65
- ⑩ 专用产品代码: SW(船用产品)

表1 电压代码对照表

电压代码	电压	电压代码	电压
15	AC/DC 15 V	30	AC/DC 500 V
16	AC/DC 30 V	31	AC 220 V
17	AC/DC 63 V	32	AC 380 V
18	AC/DC 75 V	33	AC/DC 270 V
20	AC/DC 5 V	34	AC/DC 400 V
21	AC/DC 6 V	35	AC/DC 440 V
22	AC/DC 12 V	36	AC/DC 150 V
23	AC/DC 24 V	37	AC 270 V
24	AC/DC 36 V	38	AC 440 V
25	AC/DC 48 V	39	AC 500 V
26	AC/DC 110 V	40	AC 230 V
27	AC/DC 127 V	41	AC 240 V
28	AC/DC 220 V	42	AC 250 V
29	AC/DC 380 V		

表2 显示符号代码

代码	不标注	Sxyz	S99
符号内容	没有符号	标准符号	有符号, 内容按客户要求

安全使用和注意事项

- 1) 检查产品型号是否符合选用要求;
- 2) 在安装、检修前必须先切断电源;
- 3) 本产品不宜直接并联在接触器、继电器等感性负载上;
- 4) 电源电压应符合产品使用电压;
- 5) 避免化学溶剂接触本品;
- 6) 储存超过3个月的产品, 需进行通电点亮, 点亮时间大于10s才能投入使用;

技术特性

技术参数

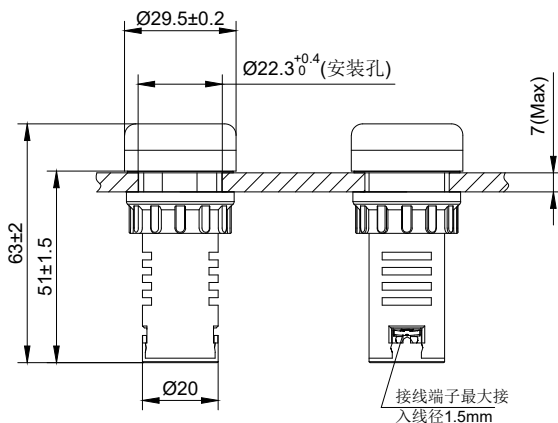
- 1) 额定绝缘电压(Ui): 500 V
- 2) 工频耐压: AC 1890 V, 50Hz, 1 min
- 3) 连续工作寿命: ≥ 30000 h
- 4) 绝缘电阻: ≥ 100MΩ
- 5) 电压范围: 标称电压±20%
- 6) 光亮度: ≥ 100cd/m²

工作环境

《GD22 电气电子产品型式认可试验指南》中1.3.2条款规定的B类环境

- 1) 使用环境温度: -25°C ~ +55°C
- 2) 空气相对湿度: ≤ 98%
- 3) 冲击和振动:
冲击: 在峰值加速度15gn, 脉冲持续时间11ms以下能正常工作。
振动: 在振动频率10Hz~55Hz范围内, 振幅0.5mm以下能正常工作
- 4) 安装类别: III
- 5) 污染等级: 3 级
- 6) 头部防护等级: IP65

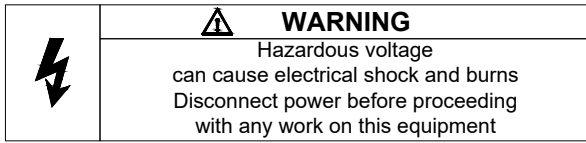
安装尺寸



名 称	材 料	最大安装力矩	备 注
安装螺母	PC	5.0 N·m	Tr22x1.5-7h
接线端子	接触片	1.1 N·m	M3.5
	组合螺钉		
	接触板		

Instructions

Before installing the device, please read the instructions.



Summary

Main application

AD16-22D series (SW) Indicator is suitable for 《GD22 Guidelines for Type Approval Test of Electric and Electronic Products》 1.3.2 class B environment, and a optical signal for indicating occasions.

General product information

Model specification

AD 16 - 22 D □ / □ □ □ □
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① The Indicator type
- ② The design of serial number
- ③ Basic description code, hole size is Ø22mm
- ④ Shape feature and function code, the lampshade and shell have the same diameter
- ⑤ Display symbolic code (Table 2)
- ⑥ Colour code
r(red) g(green) y(yellow) b(blue) w(white) o(orange)
- ⑦ Voltage code (Table 1)
- ⑧ Feature code: Indicator shell length code. No letter is the standard type, marked "S" is the short shell (AC/DC 220 V and above voltage can't produce the "S" type)
- ⑨ Head protection grade :IP65
- ⑩ The special product code:"SW" used for ship

Table 1 Voltage code

Voltage code	Voltage	Voltage code	Voltage
15	AC/DC 15 V	30	AC/DC 500 V
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26	AC/DC 110 V	40	AC 230 V
27	AC/DC 127 V	41	AC 240 V
28	AC/DC 220 V	42	AC 250 V
29	AC/DC 380 V		

Table 2 Display code

Code	Unmarked	Sxyz	S99
Symbol content	No symbol	Standard symbol	A symbol according to customer requirement

Installation caution

- 1) We need to check whether the type meet selection requirement.
- 2) We must turn off power before installation and recondition.
- 3) This product isn't suitable for parallel operation with inductive load directly, such as relay and contact;
- 4) Choose the correct operational voltage
- 5) Avoid chemicals to touch product.
- 6) If the product is stored more than three months, you need to light up and light-time is greater than 10 seconds before using.

Technical Characteristics

Parameters

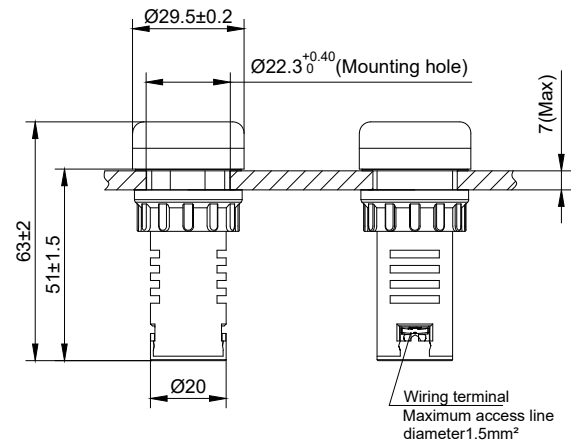
- 1) Rated insulation voltage(Ui): 500 V
- 2) Power frequency withstand voltage: AC 1890 V 50Hz 1 min
- 3) Consecutive working life : ≥ 30000 h
- 4) Insulation resistance : ≥ 100MΩ
- 5) Voltage range : ±20% of nominal voltage
- 6) Brightness : ≥ 100cd/m²

Operation condition

《GD22 Guidelines for Type Approval Test of Electric and Electronic Products》 1.3.2 class B environment

- 1) Environment temperature : -25°C to +55°C
- 2) Relative air humidity ≤ 98%
- 3) Shock and vibration :
Shock : The speak acceleration 15gn, pulse duration 11ms below can work normally
Vibration : The vibration frequency range 10Hz~55Hz, amplitude 0.5 mm below can work normally
- 4) Installation category : III
- 5) Pollution class : 3
- 6) Head Protection Level : IP65

Installation dimension



Item	Material	The largest installation torque	Remarks
Mounting nut	PC	5.0 N·m	Tr22x1.5-7h
Wiring terminal	Contact piece	Copper	1.1 N·m M3.5
	Combination screw	Copper	
	Touchpad	Copper	