

AD22 Series Signal Light



I. Scope of Application

The AD22 Series Signal Light is suitable for electric circuits with AC 50 Hz, rated voltage up to 380 V and DC voltage up to 220 V to provide light signals with bright or dark information, which can be used as command signals, warning signals, accident signals and other indication signals. The product complies with IEC 60947-5-1 and GB/T 14048.5.

II. Model Description

AD22-22 1 2 3 4

Voltage: AC: 110 V, 220 V, 380 V
AC/DC: 6 V, 12 V, 24 V, 36 V, 48 V, 110 V, 220 V

Color: R: Red, Y: Yellow, G: Green, B: Blue, W: White

No letter indicates the standard type; "S" indicates the ultra-f frame; and "F" indicates the discharge lamp that can be installed in a capacitor cabinet.

B, C, D and E denote different appearance styles:

B—round flat inner screw frame, C—round flat reflector frame, D—round flat outer screw frame, E—round flat plum blossom frame, H—cone frame, FM—long bell without light, FML—long bell with light, SM—intermittent bell without light, SML—intermittent bell with light

Neck size 22-φ22

Signal light model

III. Normal Operating Conditions

1. Ambient air temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$, and the average temperature within 24 hours shall not exceed $+35^{\circ}\text{C}$.
2. Altitude: Not higher than 2,000 m.
3. Atmospheric conditions: The relative atmospheric humidity shall not exceed 50% when the ambient air temperature is $+40^{\circ}\text{C}$, and a higher relative humidity is allowed at a lower temperature, e.g. 90% humidity at 20°C . Special measures shall be taken for occasional condensation due to the temperature change.
4. Contamination grade: Grade 3.
5. Installation category: III.
6. Installation conditions: The diameter of the mounting hole and the size of the keyway of the mounting plate of the signal light shall conform to the provisions of Table 1 and Figure 1.

Table 1 Dimensions of the mounting hole and keyway

Size code	Diameter (d) of the mounting hole	Keyway	
		Height (h)	Width (b)
φ22	$22.3_0^{+0.4}$	$2.4_0^{+0.1}$	$3.2_0^{+0.1}$

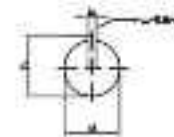


Figure 1 Diameter of the mounting hole and dimension of keyway

7. When several signal lights of the sizes listed in Table 1 are installed side by side on the same mounting plate, the center distance "a" of the mounting holes in the same row and the distance "c" between the center lines of each row shall comply with the provisions of Table 2. The thickness range of the installation plate: All signal lights can be installed on the plate with the thickness of 1–6 mm.

Table 2 Center distance (a) of mounting holes and center distance (c) of each row of mounting holes

Size	a	c
φ22	30	50

Note: The distances "a" and "c" are interchangeable.

8. Operating range of the signal light: The limit range of voltage between signal light terminals is 0.85~1.1 times of the signal light working voltage.
9. It can be installed on the mounting hole of $22.3_0^{+0.4}$.
10. Wide power supply voltage: It can work normally within $\pm 10\%$ of the rated voltage.

AD22

Series Button Switch

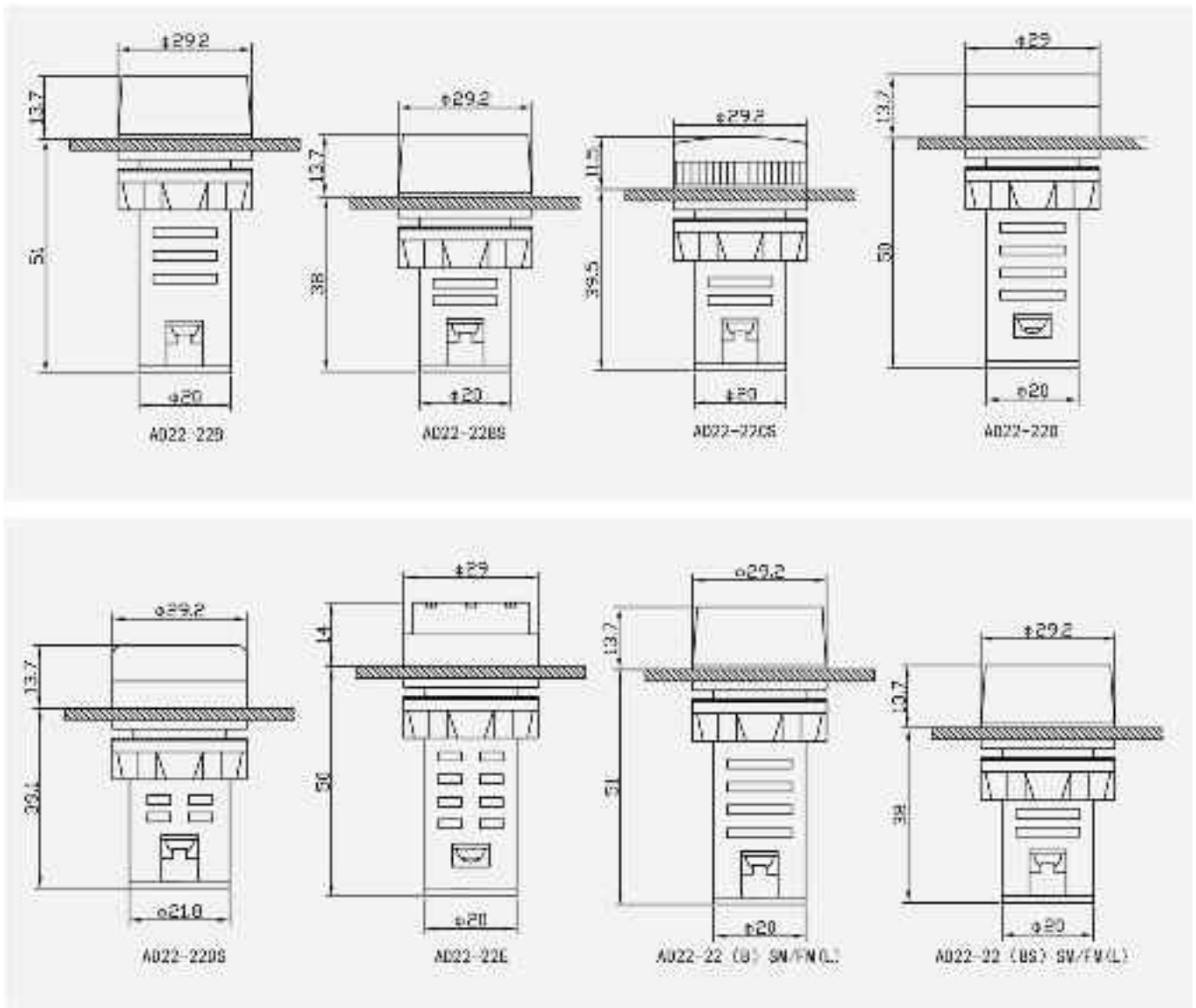
IV. Main Technical Parameters

1. Power frequency withstand voltage of 2.5 kV (AC rms), 1 min;
2. Rated working current: ≤ 20 mA;
3. Continuous working life $\geq 30,000$ hours;
4. Luminance: ≥ 100 cd/m²;
5. Comparative tracking index (CT1) ≥ 100 , flame retardant.

V. Classification

1. According to the color: Red, yellow, blue, green and white
2. According to the voltage-drop method: Resistive and capacitive
3. According to the rated working voltage:
 - a) AC: 110 V, 220 V, 380 V
 - b) AC and DC: 6 V, 12 V, 24 V, 36 V, 48 V, 110 V, 220 V

VI. Outline and Installation Dimensions



VII. Ordering Information

1. When ordering, please indicate the product specification and model, rated working voltage, luminous color and order quantity.
2. If there are special requirements, please specify in detail when ordering.
3. Furthermore, this series of signal lights is anti-interference. When ordering, add the letter "K" or words following the model.