



## ND16 Series Indicator Lights

### 1. General

Degree of protection: IP65, IP40, IP20 (Buzzer);  
Standard: IEC/EN60947-5-1



### 2. Operating conditions

2.1 Ambient temperature is  $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$ , the average temperature during 24 hours couldn't exceed  $+35^{\circ}\text{C}$ .

2.2 Altitude:  $\leq 2000\text{m}$ .

2.3 Atmosphere condition:

Relative humidity of the atmosphere couldn't exceed 50% when the highest temperature is  $+40^{\circ}\text{C}$ ; much higher relative humidity is allowable under the condition of lower temperature, for example, when the temperature reaches  $+20^{\circ}\text{C}$ , the relative humidity is up to 90%. As for dews, which contingently appear due to change of temperature, special steps should be taken.

2.4 Pollution degree: 3

2.5 Overvoltage category: III

2.6 Tightening torque is  $0.8 \sim 1.2\text{N}\cdot\text{m}$  for the cable terminals, and  $1.5 \sim 1.8\text{N}\cdot\text{m}$  for the fixing nut. Cross section of the cable connection is  $0.5 \sim 2.5\text{mm}^2$ , and 8mm conductor length is needed.



### 3. Technical data

Basic parameters

Rated operational voltage $U_e(\text{V})$		Rated operational current (mA)	Service life(h)	Brightness ( $\text{cd}/\text{m}^2$ )	Basic color
AC	AC/DC				
400	400	$I_e \leq 20$	$\geq 30000$	$\geq 40$ $\geq 20(\text{BUZZER})$	●
230	230				●
110	110				●
-	48				●
-	24				●
-	12				○
-	36				○
-	6				●

Note: For AC power supply, the limit voltage range is  $0.85U_e \sim 1.1U_e$  between terminals; C: IP65; K2: anti-interference

## ★ Arc Surface Round-Lampshape (Resistance type)

ND16-22D/2	Lamp-Voltage	Model	Color
	LED:		○ (W)
	AC/DC 6V,	ND16-22D/2	● (G)
	AC/DC12V,	ND16-22D/2K2	● (R)
	AC/DC24V,	ND16-22D/2C	● (Y)
	AC/DC36V,		● (B)
	AC/DC48V,		● (O)
	AC/DC110V,		
	AC/DC230V,		
	AC/DC400V		

## ★ Compacted Arc Surface Round-Lampshape (Resistance type)

ND16-22DS/2	Lamp-Voltage	Model	Color
	LED:		○ (W)
	AC/DC 6V,	ND16-22DS/2	● (G)
	AC/DC12V,	ND16-22DS/2C	● (R)
	AC/DC24V,		● (Y)
	AC/DC36V,		● (B)
	AC/DC48V		● (O)

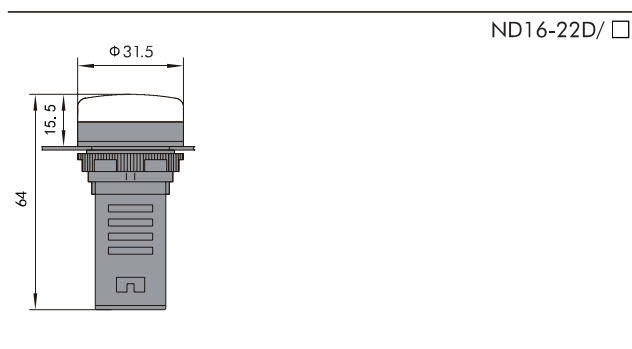
## ★ Arc Surface Round-Lampshape (Capacitance type)

ND16-22D/4	Lamp-Voltage	Model	Color
	LED		○ (W)
	AC 110V,	ND16-22D/4	● (G)
	AC230V,	ND16-22D/4K2	● (R)
	AC 400V	ND16-22D/4C	● (Y)
			● (B)
			● (O)

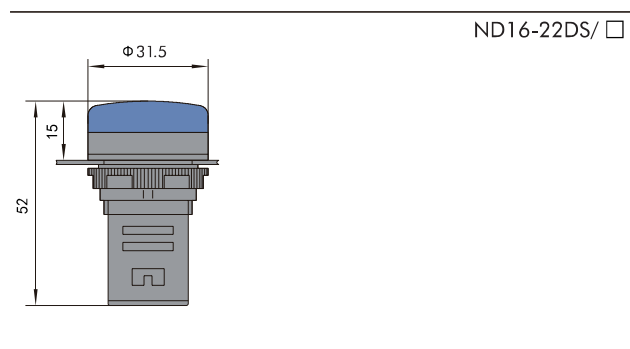
## ★ Compacted Arc Surface Round-Lampshape (Capacitance type)

ND16-22DS/4	Lamp-Voltage	Model	Color
	LED		○ (W)
	AC 110V,	ND16-22DS/4	● (G)
	AC 230V,	ND16-22DS/4C	● (R)
	AC 400V		● (Y)
			● (B)
			● (O)

Dimension(mm)



Dimension(mm)



Diameter	Shape of the head	Internal structure	Color or function	Model Description	Code
22mm	Curved surface	Resistance type, compact	Blue, AC/DC 12V LED, IP65	ND16-22DS/2C 12V BLU	828101
22mm	Curved surface	Resistance type, compact	Yellow, AC/DC 12V LED, IP65	ND16-22DS/2C 12V YEL	828103
22mm	Curved surface	Resistance type, compact	Orange, AC/DC 24V LED, IP65	ND16-22DS/2C 24V ORG	828117
22mm	Curved surface	Resistance type, compact	White, AC/DC 24V LED, IP65	ND16-22DS/2C 24V WHT	828112
22mm	Curved surface	Resistance type, compact	Red, AC/DC 24V LED, IP65	ND16-22DS/2C 24V RED	828114
22mm	Curved surface	Resistance type, compact	Green, AC/DC 24V LED, IP65	ND16-22DS/2C 24V GRN	828116
22mm	Curved surface	Resistance type, compact	Blue, AC/DC 24V LED, IP65	ND16-22DS/2C 24V BLU	828113
22mm	Curved surface	Resistance type, compact	Yellow, AC/DC 24V LED, IP65	ND16-22DS/2C 24V YEL	828115
22mm	Curved surface	Resistance type, compact	Orange, AC/DC 36V LED, IP65	ND16-22DS/2C 36V ORG	267933
22mm	Curved surface	Resistance type, compact	White, AC/DC 36V LED, IP65	ND16-22DS/2C 36V WHT	828124
22mm	Curved surface	Resistance type, compact	Red, AC/DC 36V LED, IP65	ND16-22DS/2C 36V RED	828126
22mm	Curved surface	Resistance type, compact	Green, AC/DC 36V LED, IP65	ND16-22DS/2C 36V GRN	828128
22mm	Curved surface	Resistance type, compact	Blue, AC/DC 36V LED, IP65	ND16-22DS/2C 36V BLU	828125
22mm	Curved surface	Resistance type, compact	Yellow, AC/DC 36V LED, IP65	ND16-22DS/2C 36V YEL	828127
22mm	Curved surface	Resistance type, compact	Orange, AC/DC 48V LED, IP65	ND16-22DS/2C 48V ORG	267962
22mm	Curved surface	Resistance type, compact	White, AC/DC 48V LED, IP65	ND16-22DS/2C 48V WHT	828129
22mm	Curved surface	Resistance type, compact	Red, AC/DC 48V LED, IP65	ND16-22DS/2C 48V RED	828131
22mm	Curved surface	Resistance type, compact	Green, AC/DC 48V LED, IP65	ND16-22DS/2C 48V GRN	828133
22mm	Curved surface	Resistance type, compact	Blue, AC/DC 48V LED, IP65	ND16-22DS/2C 48V BLU	828130
22mm	Curved surface	Resistance type, compact	Yellow, AC/DC 48V LED, IP65	ND16-22DS/2C 48V YEL	828132
22mm	Curved surface	Resistance type, compact	Orange, AC/DC 6V LED, IP65	ND16-22DS/2C 6V ORG	267904
22mm	Curved surface	Resistance type, compact	White, AC/DC 6V LED, IP65	ND16-22DS/2C 6V WHT	828090
22mm	Curved surface	Resistance type, compact	Red, AC/DC 6V LED, IP65	ND16-22DS/2C 6V RED	828092
22mm	Curved surface	Resistance type, compact	Green, AC/DC 6V LED, IP65	ND16-22DS/2C 6V GRN	828094
22mm	Curved surface	Resistance type, compact	Blue, AC/DC 6V LED, IP65	ND16-22DS/2C 6V BLU	828091
22mm	Curved surface	Resistance type, compact	Yellow, AC/DC 6V LED, IP65	ND16-22DS/2C 6V YEL	828093
22mm	Curved surface	Resistance and capacitance type, compact	Orange, AC 110V LED	ND16-22DS/4 110V ORG	593489
22mm	Curved surface	Resistance and capacitance type, compact	White, AC 110V LED	ND16-22DS/4 110V WHT	592711
22mm	Curved surface	Resistance and capacitance type, compact	Red, AC 110V LED	ND16-22DS/4 110V RED	592713
22mm	Curved surface	Resistance and capacitance type, compact	Green, AC 110V LED	ND16-22DS/4 110V GRN	592715
22mm	Curved surface	Resistance and capacitance type, compact	Blue, AC 110V LED	ND16-22DS/4 110V BLU	592712
22mm	Curved surface	Resistance and capacitance type, compact	Yellow, AC 110V LED	ND16-22DS/4 110V YEL	592714
22mm	Curved surface	Resistance and capacitance type, compact	Orange, AC 220V LED	ND16-22DS/4 220V ORG	593426
22mm	Curved surface	Resistance and capacitance type, compact	White, AC 220V LED	ND16-22DS/4 220V WHT	592716
22mm	Curved surface	Resistance and capacitance type, compact	Red, AC 220V LED	ND16-22DS/4 220V RED	592718
22mm	Curved surface	Resistance and capacitance type, compact	Green, AC 220V LED	ND16-22DS/4 220V GRN	592720
22mm	Curved surface	Resistance and capacitance type, compact	Blue, AC 220V LED	ND16-22DS/4 220V BLU	592717
22mm	Curved surface	Resistance and capacitance type, compact	Yellow, AC 220V LED	ND16-22DS/4 220V YEL	592719
22mm	Curved surface	Resistance and capacitance type, compact	Orange, AC 230V LED	ND16-22DS/4 230V ORG	593072
22mm	Curved surface	Resistance and capacitance type, compact	White, AC 230V LED	ND16-22DS/4 230V WHT	593085
22mm	Curved surface	Resistance and capacitance type, compact	Red, AC 230V LED	ND16-22DS/4 230V RED	593012
22mm	Curved surface	Resistance and capacitance type, compact	Green, AC 230V LED	ND16-22DS/4 230V GRN	593071
22mm	Curved surface	Resistance and capacitance type, compact	Blue, AC 230V LED	ND16-22DS/4 230V BLU	593152
22mm	Curved surface	Resistance and capacitance type, compact	Yellow, AC 230V LED	ND16-22DS/4 230V YEL	593150