

PRODUCT SPECIFICATION

45 Series Ø22mm Unibody Pilots Lights





Unibody Pilot Lights

Higher Brightness

The new unibody pilot light achieves high brightness.

Short Depth behind the Panel

Unibody type measures only 32mm depth behind the panel.

Four Lens Shapes

Flush, flush with marking, extended, and dome.

Panel Mounting

Pilot lights can be mounted on panels simply by tightening the locking ring.

Low Voltage Glow Protective

Pilot lights are protected from glowing at low or leakage voltages. UPTO 5%.

ORDERING TABLE

45.95.02.24.01

Series	Operation Type	Colour	Lens Colour for Buzzer	Voltage	Buzzer
45 Series ø22mm Indicators	Unibody				
	95 Flush	02 Red	02B Red	12 12V AC/DC	00 Without Buzzer
	96 Dome	03 Amber	04B Yellow	24 24V AC/DC	01 24V AC/DC (only)
	97 Flush (With Marked)	04 Yellow	05B Green	30 30V AC/DC	
	98 Extended (Flat)	05 Green	00B Black	48 48V AC/DC	
	09 Flush with Buzzer	06 Blue		63 63V AC/DC	
		09 White		110 110V AC/DC	
				230 230/240V AC	
				415 415V AC	
				440 440V AC	

Types of Lens



Flush



Dome



Flush
With Marked



Extended



Flush with
Buzzer

Indicator Model Selection

Appearance	Indicator Type	Lamp	Operating Voltage	Lens Color	Model No.
	Flush	LED	12V AC/DC	Red	45.95.02.12
				Amber	45.95.03.12
				Yellow	45.95.04.12
				Green	45.95.05.12
				Blue	45.95.06.12
				White	45.95.09.12
			24V AC/DC	Red	45.95.02.24
				Amber	45.95.03.24
				Yellow	45.95.04.24
				Green	45.95.05.24
				Blue	45.95.06.24
				White	45.95.09.24
			110V AC/DC	Red	45.95.02.110
				Amber	45.95.03.110
				Yellow	45.95.04.110
				Green	45.95.05.110
				Blue	45.95.06.110
				White	45.95.09.110
			230-240V AC/DC	Red	45.95.02.230
				Amber	45.95.03.230
				Yellow	45.95.04.230
				Green	45.95.05.230
				Blue	45.95.06.230
				White	45.95.09.230
	Dome	LED	12V AC/DC	Red	45.96.02.12
				Amber	45.96.03.12
				Yellow	45.96.04.12
				Green	45.96.05.12
				Blue	45.96.06.12
				White	45.96.09.12
			24V AC/DC	Red	45.96.02.24
				Amber	45.96.03.24
				Yellow	45.96.04.24
				Green	45.96.05.24
				Blue	45.96.06.24
				White	45.96.09.24
			110V AC/DC	Red	45.96.02.110
				Amber	45.96.03.110
				Yellow	45.96.04.110
				Green	45.96.05.110
				Blue	45.96.06.110
				White	45.96.09.110
			230-240V AC/DC	Red	45.96.02.230
				Amber	45.96.03.230
				Yellow	45.96.04.230
				Green	45.96.05.230
				Blue	45.96.06.230
				White	45.96.09.230

Indicator Model Selection

Appearance	Indicator Type	Lamp	Operating Voltage	Lens Color	Model No.
	Flush (With Marked)	LED	12V AC/DC	Red	45.97.02.12
				Amber	45.97.03.12
				Yellow	45.97.04.12
				Green	45.97.05.12
				Blue	45.97.06.12
				White	45.97.09.12
			24V AC/DC	Red	45.97.02.24
				Amber	45.97.03.24
				Yellow	45.97.04.24
				Green	45.97.05.24
				Blue	45.97.06.24
				White	45.97.09.24
			110V AC/DC	Red	45.97.02.110
				Amber	45.97.03.110
				Yellow	45.97.04.110
				Green	45.97.05.110
				Blue	45.97.06.110
				White	45.97.09.110
			230-240V AC/DC	Red	45.97.02.230
				Amber	45.97.03.230
				Yellow	45.97.04.230
				Green	45.97.05.230
				Blue	45.97.06.230
				White	45.97.09.230
	Extended (Flat)	LED	12V AC/DC	Red	45.98.02.12
				Amber	45.98.03.12
				Yellow	45.98.04.12
				Green	45.98.05.12
				Blue	45.98.06.12
				White	45.98.09.12
			24V AC/DC	Red	45.98.02.24
				Amber	45.98.03.24
				Yellow	45.98.04.24
				Green	45.98.05.24
				Blue	45.98.06.24
				White	45.98.09.24
			110V AC/DC	Red	45.98.02.110
				Amber	45.98.03.110
				Yellow	45.98.04.110
				Green	45.98.05.110
				Blue	45.98.06.110
				White	45.98.09.110
			230-240V AC/DC	Red	45.98.02.230
				Amber	45.98.03.230
				Yellow	45.98.04.230
				Green	45.98.05.230
				Blue	45.98.06.230
				White	45.98.09.230

Specifications

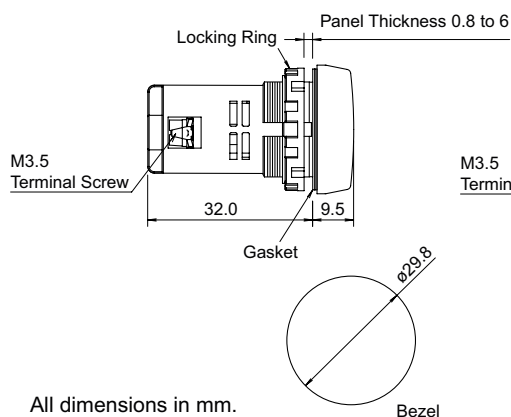
Operating Temperature	-25 to +60°C (No freezing)
Storage Temperature	-40 to +80°C
Operating Humidity	45 to 85% RH (No condensation)
	100 MΩ minimum (500V DC megger)
Dielectric Strength	2000VDC For 1 minute
Vibration Resistance	Operating extremes: 5 to 55 Hz. amplitude 1 mm Damage limits: 30 Hz, amplitude 1.5 mm
Shock Resistance	Operating extremes: 100 m/s ² (15G) Damage limits: 1000 m/s ² (100G)
Degree of Protection	IP65 Front of Panel IP20 Back of Panel

LED lamp Ratings

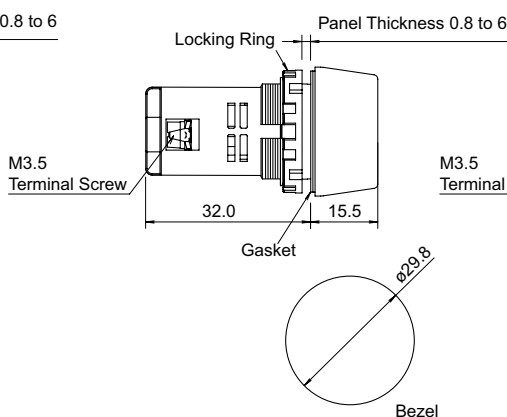
Type		6V	12V	24V	110V	230/240 V
Voltage Range	±10%	6V AC/DC	12V AC/DC	24V AC/DC	100/110V AC	230/240V AC
Rated Voltage		6V AC/DC	12V AC/DC	24V AC/DC	110V AC	230/240V AC
Current Draw	AC/DC	16mA (R,A,Y,W) 13mA (G,B)	20mA	20mA	20mA	20mA
Colour		Red				
		Amber				
		Yellow				
		Green				
		Blue				
		White				
Life (reference value)		Approx. 100,000 hours (The luminance is reduced to 50% the initial intensity when used on complete DC.)				
Internal Circuit						  LED Chip  Protection Diode Zener Diode

Mechanical Specification

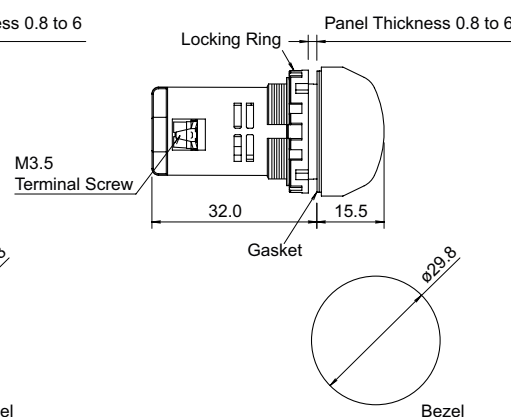
Flush & Flush Marking Type



Extended Type



Dome Type



45 Series



WERNER

Inventing Innovation...

Headquarters:

Werner Electric Private Limited

#278/C, Hebbal Industrial Area, Mysore-570018, India
Tel: +91 73539 47299, E-mail: info@wernerelektrik.com

Werner Malaysia Sdn Bhd,

45-2, Jalan Tiara 2B, Bandar Baru Klang,
41150, Klang, Selangor, Malaysia.
Tel: +60 13 533 3348, E-mail: info@wernerelektrik.com

Werner Elektrik Türkiye

Ayazağa Mah. Mimar Sinan Sok. Seba Office Boulevard.
D Blok. No.: 21D/45 Sarıyer / İstanbul, Türkiye.
Telefon: +90 539 829 25 07 , E-posta: info@wernerelektrik.com

www.wernerelektrik.com