

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

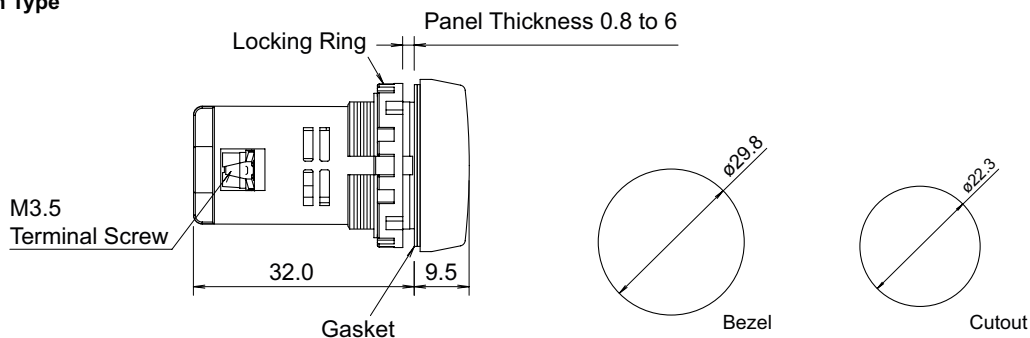
Flush with
Buzzer

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
			415V AC	Red	45.95.02.415
				Amber	45.95.03.415
				Yellow	45.95.04.415
				Green	45.95.05.415
				Blue	45.95.06.415
				White	45.95.09.415
			440V AC	Red	45.95.02.440
				Amber	45.95.03.440
				Yellow	45.95.04.440
				Green	45.95.05.440
				Blue	45.95.06.440
				White	45.95.09.440

Mechanical Specification

Flush Type



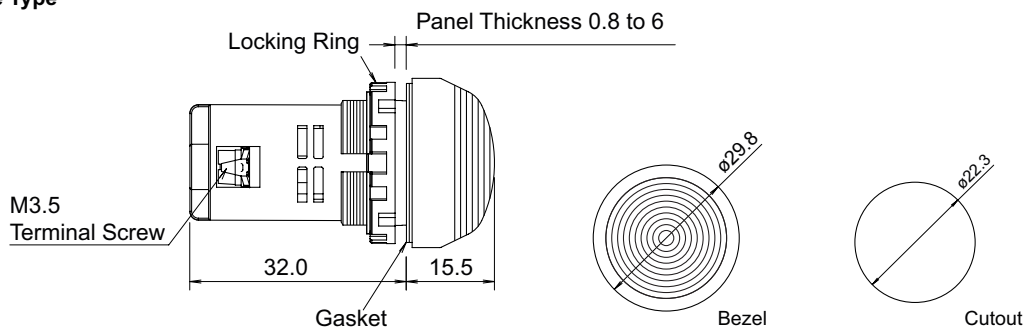
45 Series

Indicator Model Selection

Appearance	Indicator Type	Lamp	Operating Voltage	Lens Color	Model No.
	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
			415V AC	Red	45.96.02.415
				Amber	45.96.03.415
				Yellow	45.96.04.415
				Green	45.96.05.415
				Blue	45.96.06.415
				White	45.96.09.415
			440V AC	Red	45.96.02.440
				Amber	45.96.03.440
				Yellow	45.96.04.440
				Green	45.96.05.440
				Blue	45.96.06.440
				White	45.96.09.440

Mechanical Specification

Dome Type



All dimensions in mm.

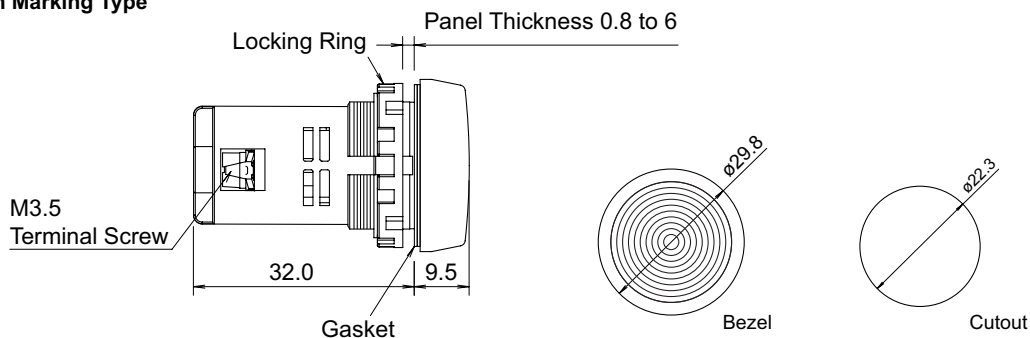
45 Series

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
			415V AC	Red	45.97.02.415
				Amber	45.97.03.415
				Yellow	45.97.04.415
				Green	45.97.05.415
				Blue	45.97.06.415
				White	45.97.09.415
			440V AC	Red	45.97.02.440
				Amber	45.97.03.440
				Yellow	45.97.04.440
				Green	45.97.05.440
				Blue	45.97.06.440
				White	45.97.09.440

Mechanical Specification

Flush Marking Type



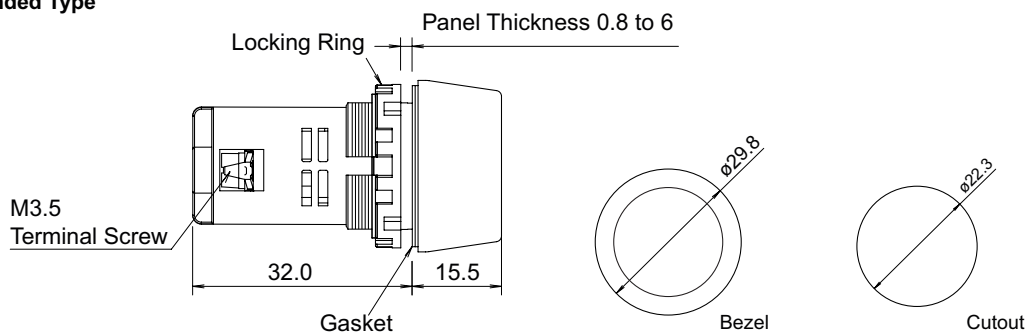
45 Series

Indicator Model Selection

Appearance	Indicator Type	Lamp	Operating Voltage	Lens Color	Model No.
	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
			415V AC	Red	45.98.02.415
				Amber	45.98.03.415
				Yellow	45.98.04.415
				Green	45.98.05.415
				Blue	45.98.06.415
				White	45.98.09.415
			440V AC	Red	45.98.02.440
				Amber	45.98.03.440
				Yellow	45.98.04.440
				Green	45.98.05.440
				Blue	45.98.06.440
				White	45.98.09.440

Mechanical Specification

Extended Type



All dimensions in mm.

45 Series

For more details browse through our website www.wernerelektrik.com

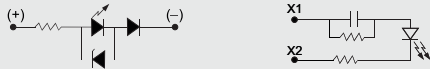
Specifications

Operating Temperature	-25 to +60°C (No freezing)
Storage Temperature	-40 to +80°C
Operating Humidity	45 to 85% RH (No condensation)
Insulation Resistance	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

Buzzer Specifications

[Us] rated supply voltage	12V, 24V
Supply circuit type	AC/DC
Supply frequency	50/60 Hz
Signalling type	Continuous or intermittent tone
Resistance to high pressure washer	9000000 Pa at 80 °C, distance : 0.1 m
Noise level	80 dB at 6.8 kHz distance 0.1 m (+/- 10 %)
Protective treatment	TH
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-40...70 °C
Operating Temperature	-25 to +60°C (No freezing)
Storage Temperature	-40 to +80°C
Operating Humidity	45 to 85% RH (No condensation)
Insulation Resistance	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)

LED lamp Ratings

Type	12V	24V	110V	230/240 V	415V AC	440V AC
Voltage Range ±10%	12V AC/DC	24V AC/DC	100/110V AC	230/240V AC	415V AC	440V AC
Rated Voltage	12V AC/DC	24V AC/DC	110V AC	230/240V AC	415V AC	440V AC
Current Draw AC/DC	20mA	20mA	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					



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Inventing Innovation...

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