

WERNER

Inventing Innovation...

Living Industrial Partnerships

PRODUCT SPECIFICATION

30 Series Warning Windows



**Natural and Non-Natural
as secure windows**

www.wernerelektrik.com

| | |
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Annunciator Windows



WERNER's 30 Series Annunciator Windows are the solution of choice if it is your task to fit a large number of process indicators into limited panel space. Using our 30 Series products will provide you with perfect process clarity in the daily operation of your panels with a very space and cost saving solution.

Features Overview

- Integrated 3-phase flasher circuits when used with our 68 Series Logic Controllers
- Integrated buzzer amplifier circuits when used with our 68 Series Logic Controllers
- Standard fitted with high bright filament lamps in AC or DC 6V, 12V & 24V
- Available in 6 Colors as per IEC Standards for different alarm conditions
- High-Bright multi color display technology
- Design based on 30mm raster elements

Highlights

- Optional available with Multi-Chip LED design in 6V, 12V, 24V, 110V & 220V AC/DC
- Indefinite combinations of window sizes, colors & control logics are possible
- Self-creation of window indication labeling is possible on every laser printer
- Pre-wired elements provide cost savings by means of reduces wiring time
- A large variety of window sizes can easily be mixed in one single unit
- Configuration allows for up to 200 windows in one panel set-up

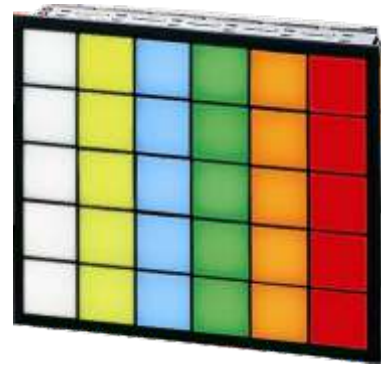
30 Series Annunciator Windows by WERNER go beyond all relevant industry standards in their entire technical features and are used by panel engineers with highest expectations on quality purchased for a very reasonable price in all highly demanding industrial environments.

30 Series Annunciator Windows

WERNER

Features:

- 30mm building block
- Provide a bright & colorful display surface
- Different options of size, color & control logics
- Multi-chip LEDs in 6V, 12V, 24V, 110V & 220V AC/DC
- Filament lamps in 6V, 12V & 24V AC/DC.
- Noise immunity and reliability oriented design environment resistance
- Built in Three-phase flasher, buzzer amplifier circuit



Approvals

Approbations and Declaration of conformity

CE

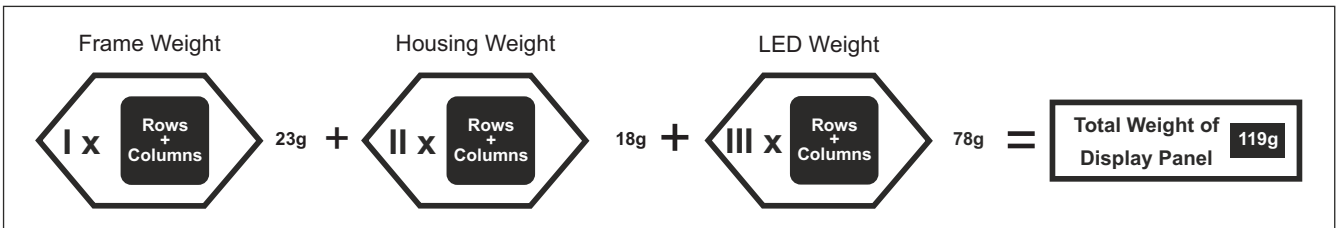
CE

LED Unit Specifications

| Rated Voltage (50/60 Hz) | | 6V AC/DC ±5% | 12V AC/DC ±10% | 24V AC/DC ±10% | 100/110V AC/DC ±10% | 200/220V AC/DC ±10% |
|--------------------------|--------------------|--|-------------------|-------------------|------------------------|------------------------|
| Model No. | | 30.01.06-* | 30.01.12-* | 30.01.24-* | 30.01.110-* | 30.01.220-* |
| * Illumination color | | R - Red G - Green A - Amber B - Blue Y - Yellow W - White | | | | |
| Rated current | Red, white, yellow | 43 mA | 23 mA | 13 mA | 13 mA | |
| | Amber, blue, green | 39 mA | 21 mA | 12 mA | 12 mA | |
| Base | | Plug-in unit type | | | | |
| No. of Units | | 1 multi-chip LED per window of type 33 (30 X 30 mm) | | | | |
| Insulation Resistance | | 100 mΩ minimum (500V DC) | | | | |
| Operating Temperature | | -20 to +65°C (No freezing) | | | | |
| Operating Humidity | | 40 to 85% RH (No condensation) | | | | |
| Insulation Resistance | | 100 MΩ minimum (500V DC) | | | | |
| Dielectric Strength | | Between live and dead metal parts: 2,500V AC, 1 minute Between terminals: 2,500V 1 minute Indicators: 2,000 for 1 minute | | | | |
| Degree of Protection | | Enclosed (IP40) | | | | |

* Please choose the appropriate color code in "Illumination color" section.

Weight Calculation Instructions



Filament Specifications

| Model No. | 30.01.06-F | 30.01.12-F | 30.01.24-F |
|-----------------------|--|-------------|-------------|
| Rated Voltage | 6V AC/DC | 12V AC/DC | 24V AC/DC |
| Rated Voltage | 6.3V-1W lamp | 18V-1W lamp | 30V-1W lamp |
| Operating Voltage | 5 to 6V | 12 to 18V | 24 to 30V |
| No. of Voltage | 1 lamp per window (30x30) | | |
| Insulation Voltage | 100 MΩ between live and dead parts (500V DC megger) | | |
| Dielectric Strength | Between live and dead metal parts: 2,500V AC, 1 minute Between terminals: 2,500V 1 minute Indicators: 2,000 for 1 minute | | |
| Operating Temperature | -20 to +40°C (No freezing) | | |
| Operating Humidity | 45 to 85% RH (No condensation) | | |

Lens Specifications

| illumination Face Type | 30.33 | 30.36 | 30.63 | 30.66 | |
|--|---|--------------|--------------|--------------|--------------|
| Material of Marking Plate & Color Screen | Acrylic | | | | |
| illumination Unit Size (mm) | Window (H x W) | 30 x 30 | 30 x 60 | 60 x 30 | 60 x 60 |
| | illumination Face (H x W) | 28 x 28 | 28 x 58 | 58 x 28 | 58 x 58 |
| | White color screen, clear marking plate, color screen (H x W x t) | 27 x 27x 1.0 | 27 x 27x 1.0 | 27 x 57x 1.0 | 57 x 57x 1.0 |
| | Engraving Area (White transparent, color plates) | 25 x 25 | 25 x 55 | 55 x 25 | 55 x 55 |
| Lens Frame Color & Frame Cover Color | Black | | | | |
| Connection Wire | Solid wire ø1.6 x 2, Stranded 2 x2mm ² x2 | | | | |
| Terminal Screw | M3.5 screw, filament resistor : M4 nut, Check terminal: M3 | | | | |
| Degree of Protection | IP40 | | | | |
| Pollution Degree | 3 | | | | |

** Choose the appropriate current voltage (Page no. 11).
 Choose the appropriate LED Color (Page no. 11).

Analysis

The insulated jumpers prevent electric shocks and reduce wiring time.

Available up to 200 windows
 LED: 10 rows by 26 columns maximum
 Filament: 10 rows by 20 columns maximum
 LED illumination: 6, 12, 24, 110, 220V AC/DC
 Filament illumination: 6, 12, 24V AC/DC

A wide variety of illumination face sizes
 33: 30H × 30W mm
 36: 30H × 60W mm
 63: 60H × 30W mm
 66: 60H × 60W mm





Frame (metal)
 The frame cover and frame are molded in one piece for one-, two-, and three-window types.





Filament and LED Unit
 30.01.**-□
 30.01.**-F Base Lamp

Panel Cut-Out Dimensions (30 x 30 mm Window Size)

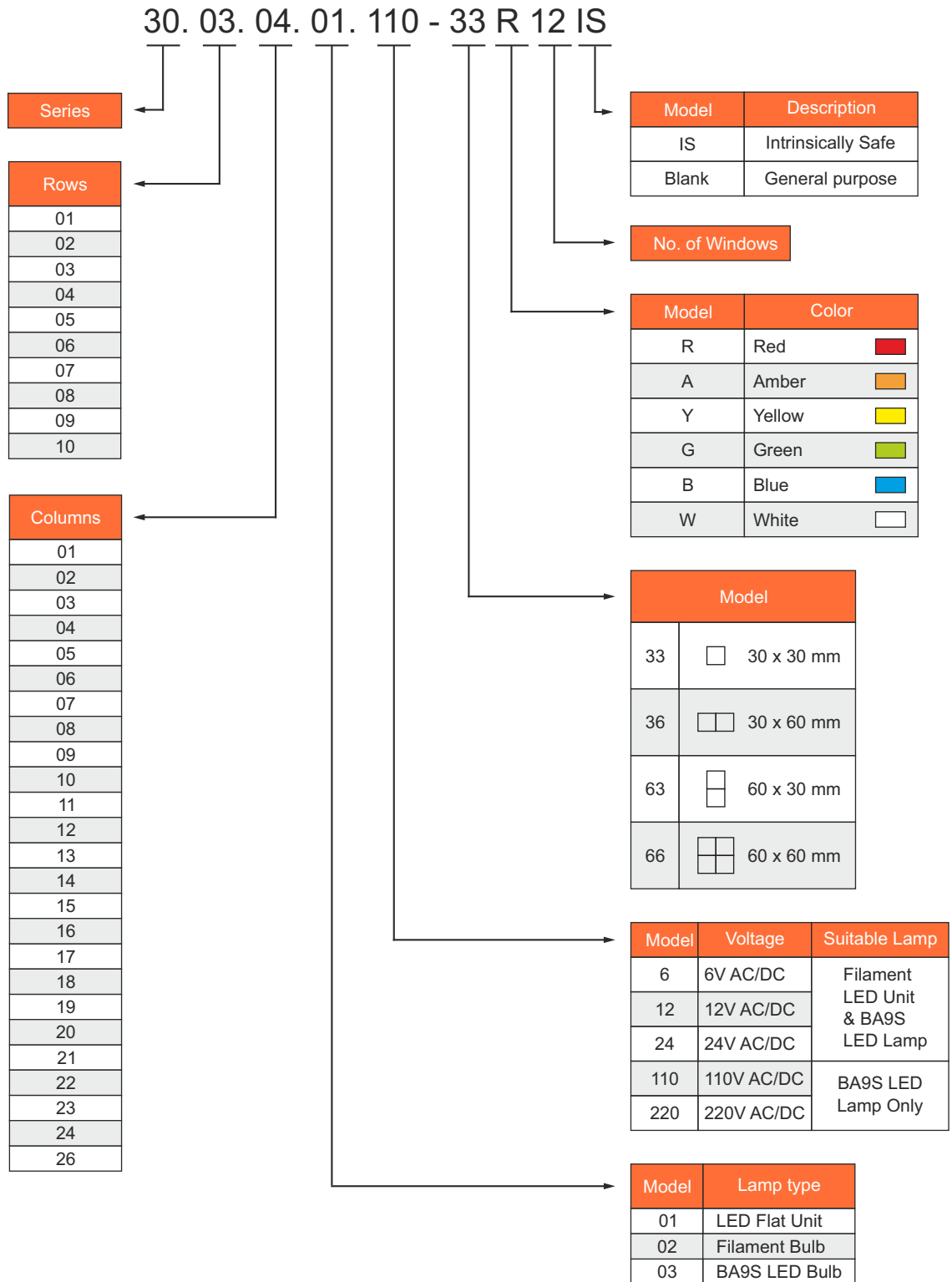
| Rows | Columns | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | |
|------|--------------------|-----------|--------------|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| | External Dimension | Width (B) | Height (A) | | | | | | | | | | | | | | | | | | | | | |
| | | | Panel cutout | W | | | | | | | | | | | | | | | | | | | | |
| | | H | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 42 | 35 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | | |
| 2 | 72 | 65 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | | |
| 3 | 102 | 95 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | 51 | 54 | 57 | 60 | | |
| 4 | 132 | 125 | 4 | 8 | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 76 | 80 | | |
| 5 | 162 | 155 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | | |
| 6 | 192 | 185 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 102 | 108 | 114 | 120 | | |
| 7 | 222 | 215 | 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | 77 | 84 | 91 | 98 | 105 | 112 | 119 | 126 | 133 | 140 | | |
| 8 | 252 | 245 | 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 | 104 | 112 | 120 | 128 | 136 | 144 | 152 | 160 | | |
| 9 | 282 | 275 | 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90 | 99 | 108 | 117 | 126 | 135 | 144 | 153 | 162 | 171 | 180 | | |
| 10 | 312 | 305 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | | |

- The above tables dimensions are for window size 30x30
- The cut out for other window sizes can be read from the same table by converting the number of row & colors into type 33 (30x30) equivalents.
- The number of windows equals rows multiplied by columns. For example, for 4 rows by 5 columns, the number of windows is 20, external dimensions are 132mm height by 162mm width and panel cut out is 125mm height by 155mm width.
- External dimensions are represented by A for rows and B for columns.
- Panel cut-out dimensions are shown in (), for height (H) and width (W). Panel cut-out tolerance is +1.0 to -0mm (for one window: +0.6 to -0.4mm).

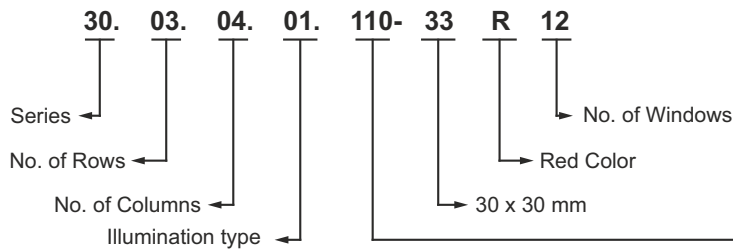
| Window Dimensions | | | | | | |
|-------------------|---------------------------|--------------|---------------------------|--------------------------|----------------|--|
| Code No. | Illumination Face (H x W) | Lens (H x W) | Marking Plate (H x W x T) | Color Screen (H x W x T) | Engraving Area | Style |
| 33 | 30 x 30 | 28 x 28 | 27 x 27 x 1.0 | 27 x 27 x 1.0 | 25 x 25 |  |
| 36 | 30 x 60 | 28 x 58 | 27 x 57 x 1.0 | 27 x 57 x 1.0 | 25 x 55 |  |
| 63 | 60 x 30 | 58 x 28 | 57 x 27 x 1.0 | 57 x 27 x 1.0 | 55 x 25 |  |
| 66 | 60 x 60 | 58 x 58 | 57 x 57 x 1.0 | 57 x 57 x 1.0 | 55 x 55 |  |

| Window Dimensions Intrinsically Safe | | | | | | |
|--------------------------------------|---------------------------|--------------|---------------------------|--------------------------|----------------|---|
| Code No. | Illumination Face (H x W) | Lens (H x W) | Marking Plate (H x W x T) | Color Screen (H x W x T) | Engraving Area | Style |
| 33 | 30 x 30 | 28 x 28 | 27 x 27 x 1.0 | 27 x 27 x 1.0 | 25 x 25 |  |
| 36 | 30 x 60 | 28 x 58 | 27 x 57 x 1.0 | 27 x 57 x 1.0 | 25 x 55 |  |
| 63 | 60 x 30 | 58 x 28 | 57 x 27 x 1.0 | 57 x 27 x 1.0 | 55 x 25 |  |
| 66 | 60 x 60 | 58 x 58 | 57 x 57 x 1.0 | 57 x 57 x 1.0 | 55 x 55 |  |

Model Number Structure - Annunciator Windows



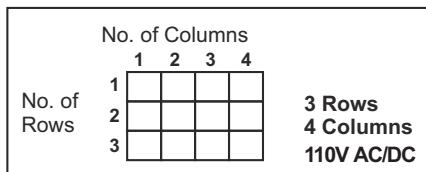
Ordering Example 1



| Model | Voltage | Suitable Lamp |
|-------|------------|-----------------------------------|
| 6 | 6V AC/DC | Filament LED Unit & BA9S LED Lamp |
| 12 | 12V AC/DC | |
| 24 | 24V AC/DC | |
| 110 | 110V AC/DC | BA9S LED Lamp Only |
| 220 | 220V AC/DC | |

1.1- Specify the no. of rows & columns followed by current voltage as shown below

30.03.04.110-



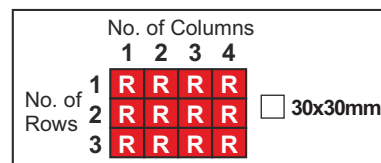
1.2- Mention the window size as your requirements
30.03.04.110 - 33

| Model | Description |
|-------|-------------------------------------|
| 33 | 30 x 30 mm <input type="checkbox"/> |
| 36 | 30 x 60 mm <input type="checkbox"/> |
| 63 | 60 x 30 mm <input type="checkbox"/> |
| 66 | 60 x 60 mm <input type="checkbox"/> |

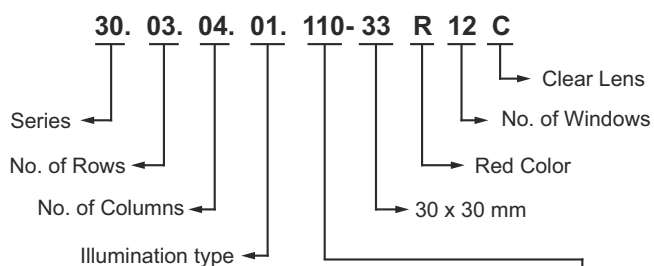
1.3- Choose the appropriate color based on the windows respectively 30.03.04.110 - 33R

| Model | Color |
|-------|--------|
| R | Red |
| A | Amber |
| Y | Yellow |
| G | Green |
| B | Blue |
| W | White |

1.4- Specify similar no. of windows according to the color & size
30.03.04.110 - 33R12

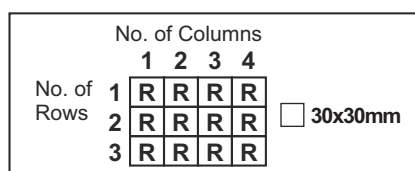


Ordering Example 2

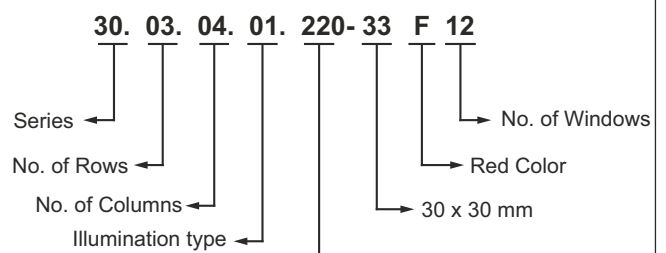


2.1- Follow the Ordering example 1 from step 1 to 4 and specify "C" for optional clear lens.

30.03.04.110 - 33R12 C

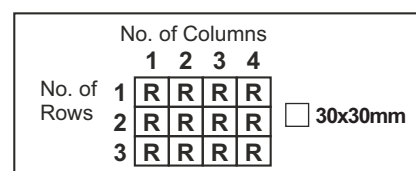


Ordering Example 3



3.1- Follow the Ordering example 1 from step 1 to 4 and specify "C" for optional clear lens.

30.03.04.110 - 33R12 C



| Model | Voltage | Suitable Lamp |
|-------|------------|---------------------|
| 6 | 6V AC/DC | Filament & LED Unit |
| 12 | 12V AC/DC | |
| 24 | 24V AC/DC | |
| 110 | 110V AC/DC | LED Unit Only |
| 220 | 220V AC/DC | |

Ordering Example 4

30.03.04.02.24

33W3

36B1

33R3

33Y1

33A1C

36G1

30.03.04.02.24 -

| | | No. of Columns | | | | | |
|-------------|---|----------------|---|---|---|-----------|--|
| | | 1 | 2 | 3 | 4 | | |
| No. of Rows | 1 | | | | | 3 Rows | |
| | 2 | | | | | 4 Columns | |
| | 3 | | | | | 24V AC/DC | |

30.03.04.02.24 -33W3-

| | | No. of Columns | | | | | |
|-------------|---|----------------|---|---|---|------|--|
| | | 1 | 2 | 3 | 4 | | |
| No. of Rows | 1 | W | | | | 33W3 | |
| | 2 | | | | W | | |
| | 3 | | | | W | | |

30.03.04.02.24 -33W3 - 36B1

| | | No. of Columns | | | | | |
|-------------|---|----------------|---|---|---|------|--|
| | | 1 | 2 | 3 | 4 | | |
| No. of Rows | 1 | W | B | | | 36B1 | |
| | 2 | | | | W | | |
| | 3 | | | | W | | |

30.03.04.02.24 -33W3 - 36B1 - 33R3

| | | No. of Columns | | | | | |
|-------------|---|----------------|---|---|---|------|--|
| | | 1 | 2 | 3 | 4 | | |
| No. of Rows | 1 | W | B | R | | 33R3 | |
| | 2 | R | R | | W | | |
| | 3 | | | | W | | |

30.03.04.02.24 -33W3 - 36B1 - 33R3 - 33Y1

| | | No. of Columns | | | | | |
|-------------|---|----------------|---|---|---|------|--|
| | | 1 | 2 | 3 | 4 | | |
| No. of Rows | 1 | W | B | R | | 33Y1 | |
| | 2 | R | R | Y | W | | |
| | 3 | | | | W | | |

30.03.04.02.24 -33W3 - 36B1 - 33R3 - 33Y1 - 33A1C

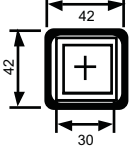
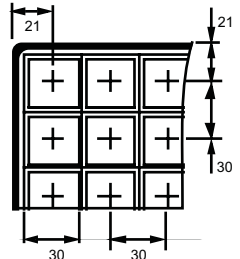
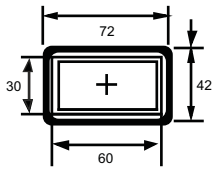
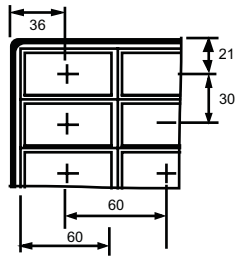
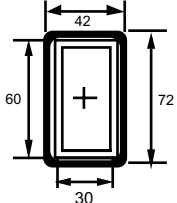
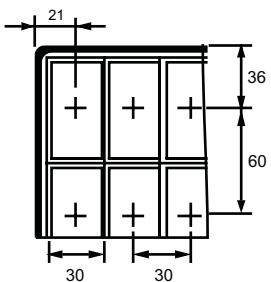
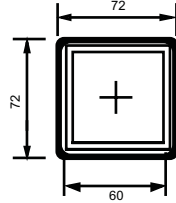
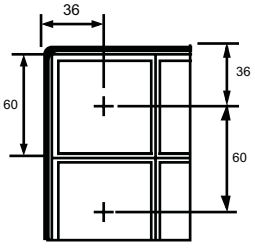
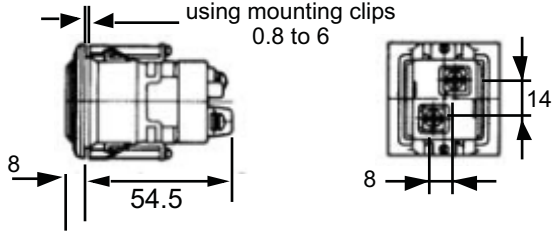
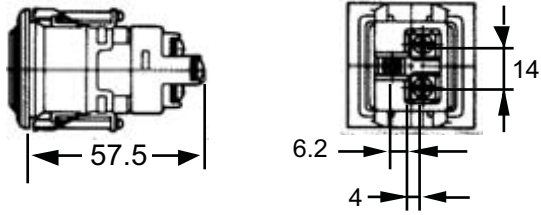
| | | No. of Columns | | | | | |
|-------------|---|----------------|---|---|---|------------------------|--|
| | | 1 | 2 | 3 | 4 | | |
| No. of Rows | 1 | W | B | R | | 33A1C | |
| | 2 | R | R | Y | W | C indicates Clear Lens | |
| | 3 | A | | | W | | |

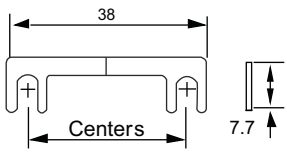
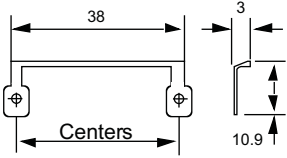
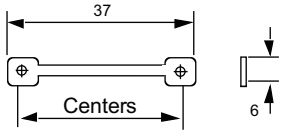
30.03.04.02.24 -33W3 - 36B1 - 33R3 - 33Y1 - 33A1C - 36G1

| | | No. of Columns | | | | | |
|-------------|---|----------------|---|---|---|------------------------|--|
| | | 1 | 2 | 3 | 4 | | |
| No. of Rows | 1 | W | B | R | | 33A1C | |
| | 2 | R | R | Y | W | C indicates Clear Lens | |
| | 3 | A | G | | W | | |

30 Series Annunciator Windows

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| Dimensions | | | |
|---|--|--|--|
| 33 (30 x 30 mm) | | 36 (30 x 60 mm) | |
| Single Window | Multiple Window | Single Window | Multiple Window |
|  |  |  |  |
| 63 (60 x 30 mm) | | 66 (60 x 60 mm) | |
| Single Window | Multiple Window | Single Window | Multiple Window |
|  |  |  |  |
| Panel Thickness | | | |
| LED Unit | | Filament | |
|  | |  | |

| Dimensions | | |
|---|---|---|
| 30.07.01 | 30.07.02 | 30.07.03 |
|  |  |  |

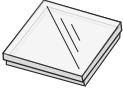
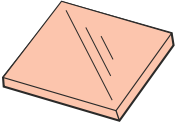
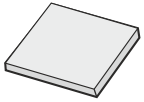

Thickness of 0.5 mm



All dimensions are in mm



30 Series Annunciator Windows

WERNER





Accessories

| Description | Style | Color | Code No. | Size | Model No. |
|----------------|---|----------|----------|---------|-------------|
| Lenses |  | Clear | 33 | 30x30mm | 30.02-33 |
| | | | 36 | 30x60mm | 30.02-36 |
| | | | 63 | 60x30mm | 30.02-63 |
| | | | 66 | 60x60mm | 30.02-66 |
| Color Screens |  | Red | 33 | 30x30mm | 30.03-33R |
| | | | 36 | 30x60mm | 30.03-36R |
| | | | 63 | 60x30mm | 30.03-63R |
| | | | 66 | 60x60mm | 30.03-66R |
| | | Amber | 33 | 30x30mm | 30.03-33A |
| | | | 36 | 30x60mm | 30.03-36A |
| | | | 63 | 60x30mm | 30.03-63A |
| | | | 66 | 60x60mm | 30.03-66A |
| | | Yellow | 33 | 30x30mm | 30.03-33Y |
| | | | 36 | 30x60mm | 30.03-36Y |
| | | | 63 | 60x30mm | 30.03-63Y |
| | | | 66 | 60x60mm | 30.03-66Y |
| | | Green | 33 | 30x30mm | 30.03-33G |
| | | | 36 | 30x60mm | 30.03-36G |
| | | | 63 | 60x30mm | 30.03-63G |
| | | | 66 | 60x60mm | 30.03-66G |
| | | Blue | 33 | 30x30mm | 30.03-33B |
| | | | 36 | 30x60mm | 30.03-36B |
| | | | 63 | 60x30mm | 30.03-63B |
| | | | 66 | 60x60mm | 30.03-66B |
| | | White | 33 | 30x30mm | 30.03-33W |
| | | | 36 | 30x60mm | 30.03-36W |
| | | | 63 | 60x30mm | 30.03-63W |
| | | | 66 | 60x60mm | 30.03-66W |
| Marking Plates |  | Clear | 33 | 30x30mm | 30.04-33C |
| | | | 36 | 30x60mm | 30.04-36C |
| | | | 63 | 60x30mm | 30.04-63C |
| | | | 66 | 60x60mm | 30.04-66C |
| | | White | 33 | 30x30mm | 30.03-33W |
| | | | 36 | 30x60mm | 30.03-36W |
| | | | 63 | 60x30mm | 30.03-63W |
| | | | 66 | 60x60mm | 30.03-66W |
| Lens Frames |  | Filament | 33 | 30x30mm | 30.05.00-33 |
| | | | 36 | 30x60mm | 30.05.00-36 |
| | | | 63 | 60x30mm | 30.05.00-63 |
| | | | 66 | 60x60mm | 30.05.00-66 |
| | | LED | 33 | 30x30mm | 30.05.01-33 |
| | | | 36 | 30x60mm | 30.05.01-36 |
| | | | 63 | 60x30mm | 30.05.01-63 |
| | | | 66 | 60x60mm | 30.05.01-66 |

| Description | Model No. | Style |
|----------------------|-----------|---|
| LED Lamp Holder | 30.06.01 |  |
| Filament Lamp Holder | 30.06.00 |  |

| Description | Model No. | Style |
|---|-----------|---|
| LED Lamp Holder Intrinsically Safe | 30.06.01 |  |
| Filament Lamp Holder Intrinsically Safe | 30.06.00 |  |

Accessories

| Description | Note | Model No. | Style |
|---------------------------------|-----------------------------|-----------|---|
| Terminal Cover, Finger safe, | Applicable for all voltages | 30.09.00 |  |
| Mounting Clip | Suitable for all 30 Series | 30.08.00 |  |
| Jumpers | Terminal Spade | 30.07.01 |  |
| | Terminal Ring | 30.07.02 |  |

30 Series Annunciator Windows

Accessories

| Description | Color | Voltage | Model No. |
|---------------|----------|-------------|-------------|
| Filament | Filament | 6V AC/DC | 30.01.06-F |
| | | 12V AC/DC | 30.01.12-F |
| | | 24V AC/DC | 30.01.24-F |
| BA9S LED Lamp | Red | 6V AC/DC | 30.02.06-R |
| | | 12V AC/DC | 30.02.12-R |
| | | 24V AC/DC | 30.02.24-R |
| | | 110V AC/DC | 30.02.110-R |
| | | 220V AC/DC | 30.02.220-R |
| | Amber | 6V AC/DC | 30.02.06-A |
| | | 12V AC/DC | 30.02.12-A |
| | | 24V AC/DC | 30.02.24-A |
| | | 110V AC/DC | 30.02.110-A |
| | | 220V AC/DC | 30.02.220-A |
| | Yellow | 6V AC/DC | 30.02.06-Y |
| | | 12V AC/DC | 30.02.12-Y |
| | | 24V AC/DC | 30.02.24-Y |
| | | 110V AC/DC | 30.02.110-Y |
| | Green | 6V AC/DC | 30.02.06-G |
| | | 12V AC/DC | 30.02.12-G |
| | | 24V AC/DC | 30.02.24-G |
| | | 110V AC/DC | 30.02.110-G |
| | Blue | 6V AC/DC | 30.02.06-B |
| | | 12V AC/DC | 30.02.12-B |
| | | 24V AC/DC | 30.02.24-B |
| | | 110V AC/DC | 30.02.110-B |
| | White | 6V AC/DC | 30.02.06-W |
| | | 12V AC/DC | 30.02.12-W |
| 24V AC/DC | | 30.02.24-W | |
| 110V AC/DC | | 30.02.110-W | |
| LED Unit | Red | 6V AC/DC | 30.01.06-R |
| | | 12V AC/DC | 30.01.12-R |
| | | 24V AC/DC | 30.01.24-R |
| | Amber | 6V AC/DC | 30.01.06-A |
| | | 12V AC/DC | 30.01.12-A |
| | | 24V AC/DC | 30.01.24-A |
| | Yellow | 6V AC/DC | 30.01.06-Y |
| | | 12V AC/DC | 30.01.12-Y |
| | | 24V AC/DC | 30.01.24-Y |
| | Green | 6V AC/DC | 30.01.06-G |
| | | 12V AC/DC | 30.01.12-G |
| | | 24V AC/DC | 30.01.24-G |
| | Blue | 6V AC/DC | 30.01.06-B |
| | | 12V AC/DC | 30.01.12-B |
| | | 24V AC/DC | 30.01.24-B |
| | White | 6V AC/DC | 30.01.06-W |
| 12V AC/DC | | 30.01.12-W | |
| 24V AC/DC | | 30.01.24-W | |

Instructions

Removing Windows

Insert the tip of a small screwdriver into the slot under the lens frame and gently press down on the screwdriver.

Removing Lens, Color Screen, and Marking Plate

Push open the lens frame with both hands. To remove them from the lens frame, to remove the lens, color screen, and marking plate from the lens frame.

The lens can also be removed by inserting a screwdriver into one of the sides.



Inserting:

1. Mount the LED Unit or Filament to the lamp holder



2. Place the marking plate, color screen and lens respectively in to the Lens frame.



3. Mount the lens frame on the window



Precautions:

A lower number of windows are recommended while using multiple lamp holders. Please note that lamps generate heat and ventilation is recommended for cooling while using more than ten lamps continuously.

Turn off power supply for 30 Series before removing the LED unit.

Maximum converter units of 50 no. is recommended instead of 200. This is to prevent excessive heat generated while all lamps are lit simultaneously.

Multiple units are not designed for simultaneous lighting of all lamps. However, it is possible to conduct a lamp test with all lamps lit simultaneously for a period of up to 45 minutes.

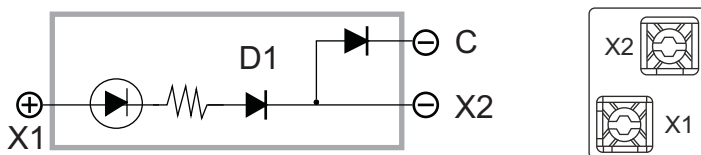
Keep the DC power voltage within the operating voltage range as mentioned earlier to ensure brightness and long life of LED units.

Consider panel thickness for combined weight of all units and connecting wires that is required to support when multiple units are mounted.



Terminal Arrangements (LED units)

Terminal X1 is positive and terminal X2 is negative. Please note the polarity when wiring.



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