

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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WERNER's 30 Series Annunciator Windows are the solution of choice if it is your task to fit of 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

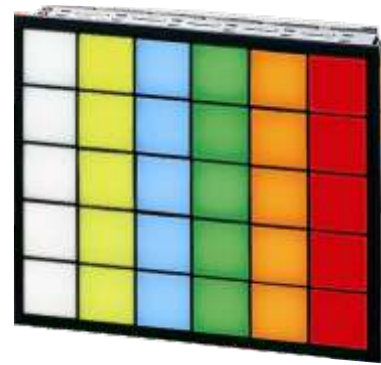
Highlights

- 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.

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

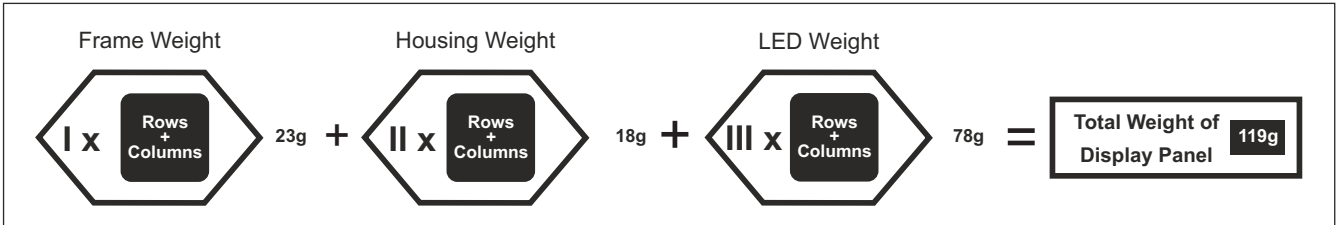
CE CE

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





Analysis

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).

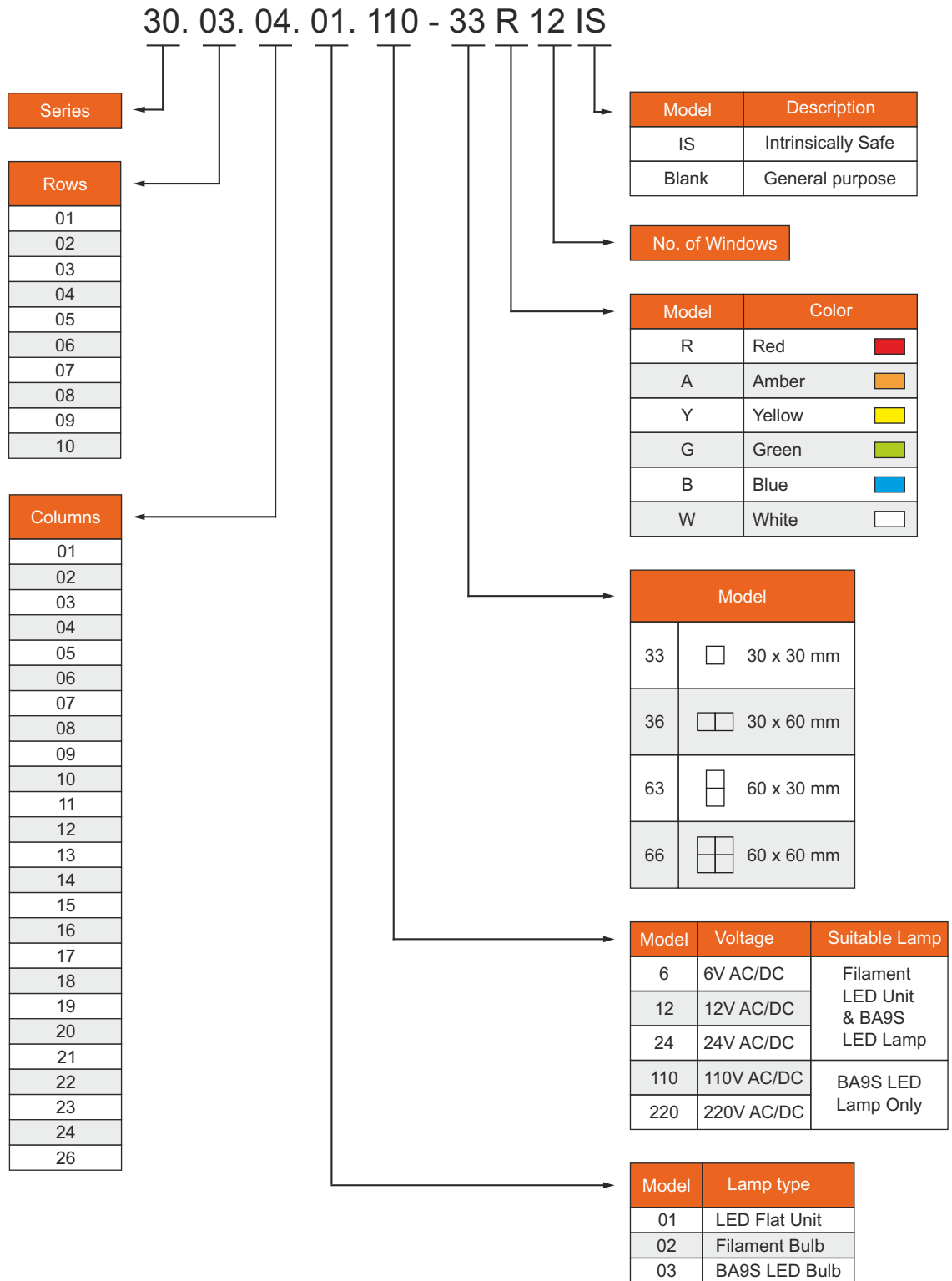
Window Dimensions

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	

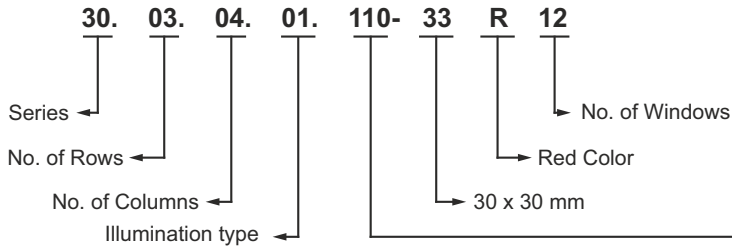
Window Dimensions Intrinsically Safe

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



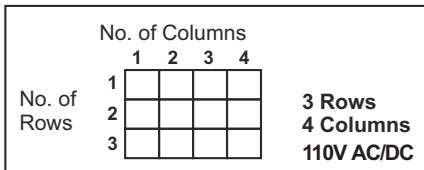
Ordering Example 1



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

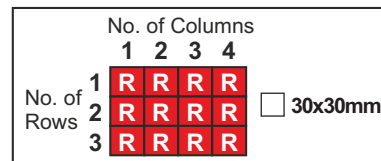
30.03.04.110 - 33

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

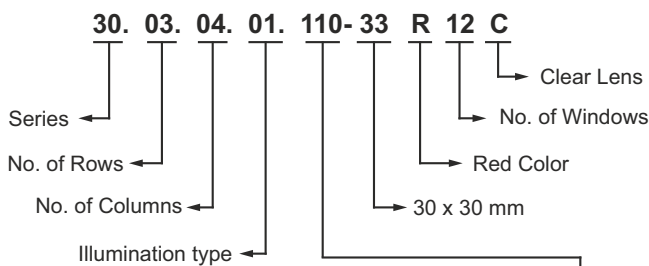
Model	Color	
R	Red	<input type="checkbox"/>
A	Amber	<input type="checkbox"/>
Y	Yellow	<input type="checkbox"/>
G	Green	<input type="checkbox"/>
B	Blue	<input type="checkbox"/>
W	White	<input type="checkbox"/>

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



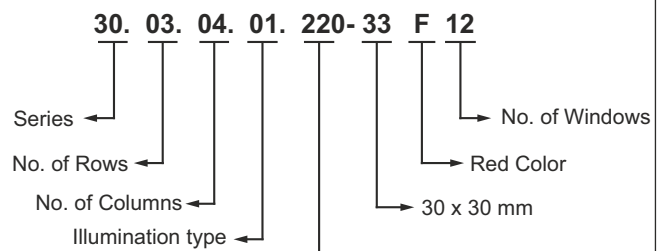
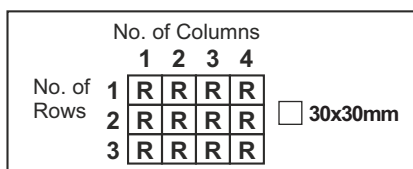
Ordering Example 2

Ordering Example 3



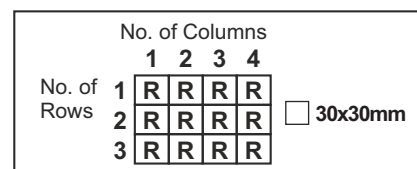
2.1- Follow the Ordering example 1 from step 1 to 4 and specify "C" for optional clear lens.

30.03.04.110 - 33R12 C



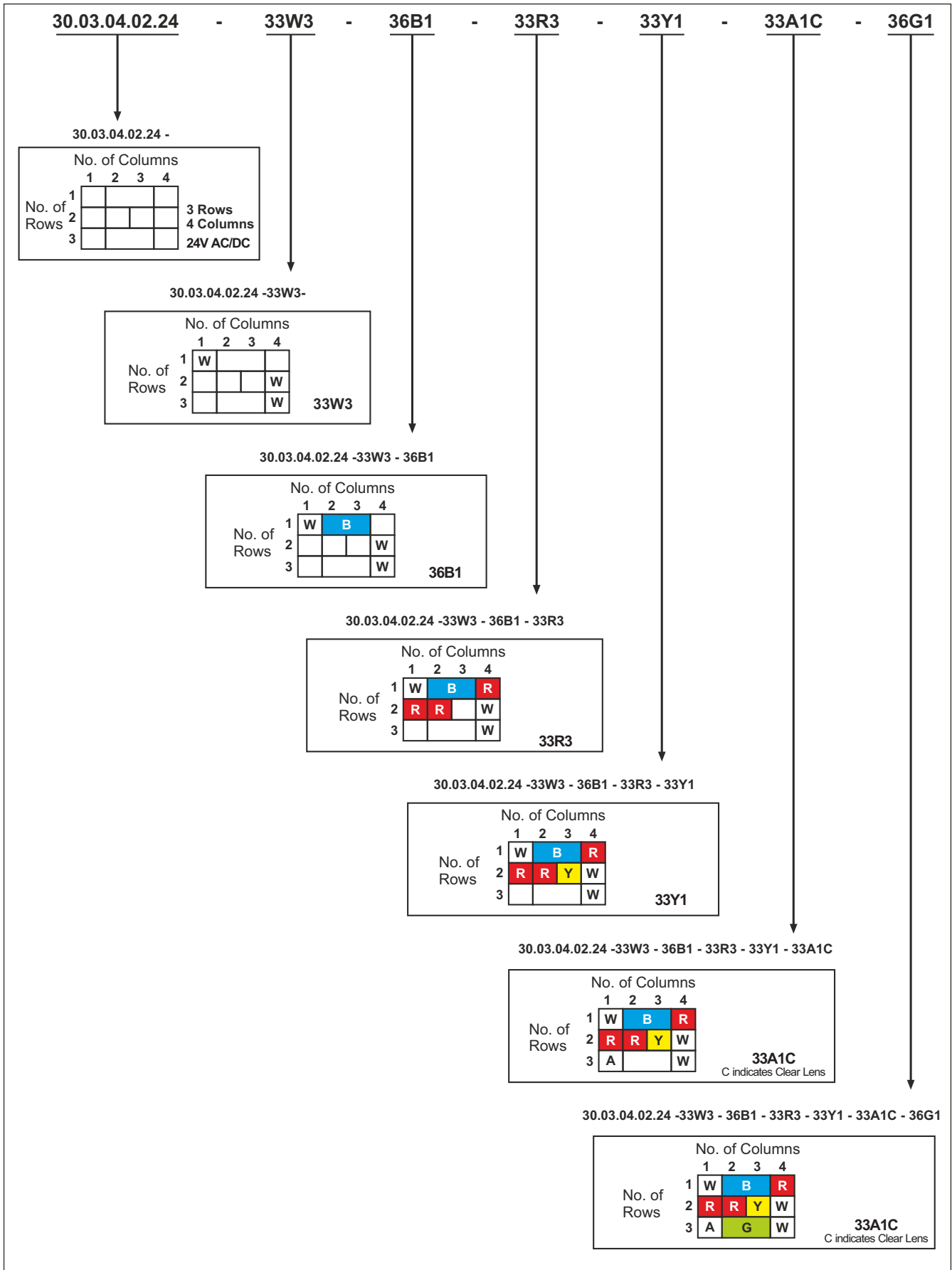
3.1- Follow the Ordering example 1 from step 1 to 4 and specify "C" for optional clear lens.

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	

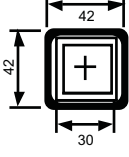
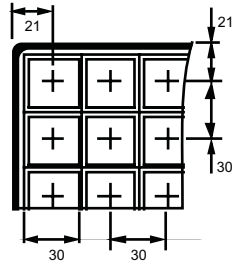
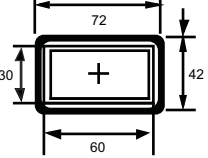
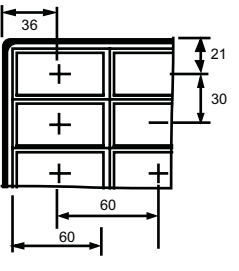
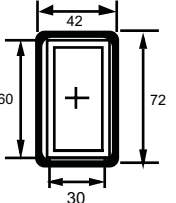
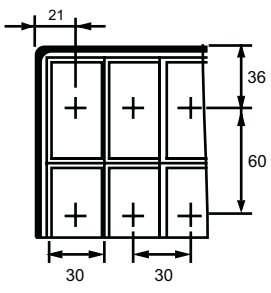
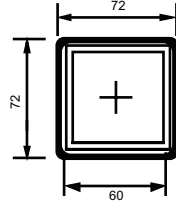
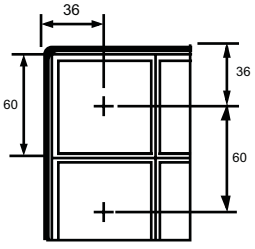
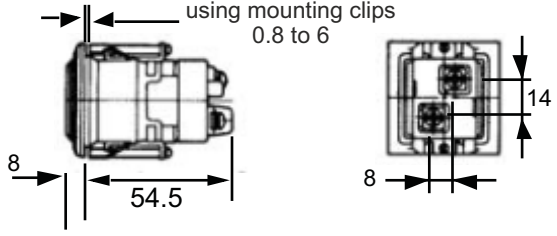
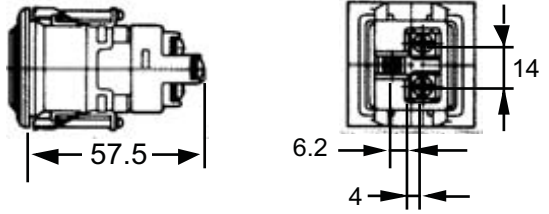
Ordering Example 4



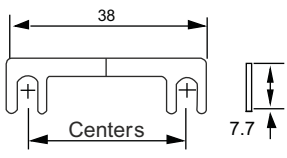
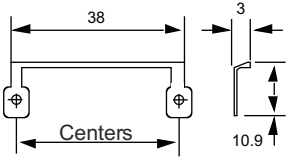
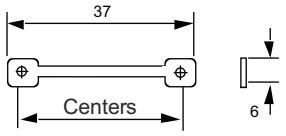
30 Series Annunciator Windows

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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
		

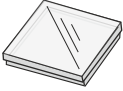
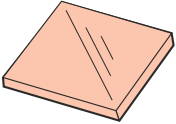
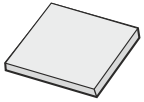

Thickness of 0.5 mm



All dimensions are in mm



30 Series Annunciator Windows

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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

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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.

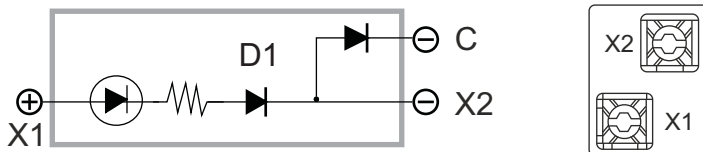
Keep the DC power voltage within the operating voltage range as mentioned earlier to ensure brightness and long life of LED units.

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.



Terms And Conditions

Please read this catalog before purchasing any products. Please consult your *WERNER* representative for any clarifications or comments.

Application Considerations

WERNER shall not be responsible for conformity with any regulations, codes or standards that apply to use of the products. *WERNER* shall provide applicable third party certification documents identifying ratings and limitations of use that apply to the products in case of the customer's request.

Prevent use of the products for an application involving risk to life or property. Be sure that the *WERNER*'s products are properly rated and installed for the overall system or equipment.

WERNER shall not be responsible for the user's programming of a programmable products.

Warranty

WERNER's warranty represents that the products are free from defects in materials and workmanship for a period of one year.

WERNER shall not be responsible for any special loss of profit, commercial loss, indirect or consequential damages relevant to products.

WERNER shall not be responsible for repair, warranty or any claims regarding the products unless *WERNER*'s Analysis conform that the products were properly stored, installed, handled, maintained and not a the results from accident, insufficient, abuse, misuse, natural disaster, improper installation excessive electrical supply, environmental conditions or abnormal mechanical.

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Inventing Innovation...

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