

**SLC30 Series – Panel Mounted Annunciators**

**SLC Series Panel Mounted Annunciators – an Ideal Alternative to Mounting Multiple Pilot Devices**

**Cluster mounting simplifies panel cutouts and offers a variety of window combination sizes!**

Available with incandescent or Superbright LED illumination.

Key features of the SLC30 series include:

- Custom configurations with up to 200 windows
- Five window sizes based on a 30mm grid
- Non-reflective clear lenses
- Incandescent or Superbright LED illumination
- Wide variety of input voltages
- Two color alternate illumination in Red/Green LED



**Style F**  
(30mm x 30mm)



**Style H**  
(30mm x 60mm)



**Style L**  
(30mm x 90mm)



**Style V**  
(60mm x 30mm)



**Style G**  
(60mm x 60mm)



**Staggered Terminals:**  
increased safety  
and serviceability

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

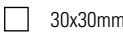
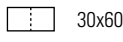
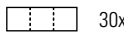

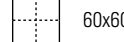



Timers

Contactors

Terminal Blocks

Circuit Breakers

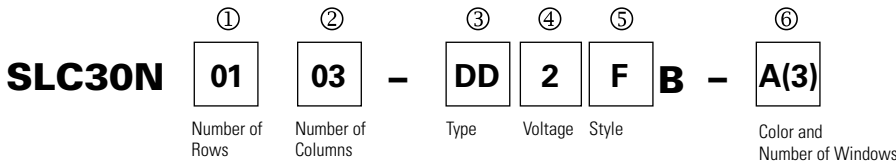
## Specifications

Light Source		LED	Incandescent
Nominal Voltages	Full Voltage	6, 12, 24V AC/DC	6, 12, 18, 24, 30V AC/DC
	Transformer	120, 240V AC	120, 240V AC
	DC-DC Conv.	110V DC	110V DC
Colors		Amber, Green, Red, Yellow, Blue (24V only), White, dual color Red/Green (24V only)	Amber, Green, Red, Yellow, Blue, White
Lamp Type		Surface (Chip type) LED cluster	BA9S/13 (T3-1/4) bayonet base (1W)
Current Consumption	6V DC	Red (R), Green (G), Yellow (Y), Amber (A), White (W): 80mA	
	12V DC	Red (R), Green (G), Yellow (Y), Amber (A), White (W): 40mA	
	24V DC	Red (R), Green (G), Yellow (Y), Amber (A), White (W), Blue (S): 20mA	
Available Window Sizes		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>"F"</p>  <p>30x30mm</p> </div> <div style="text-align: center;"> <p>"H"</p>  <p>30x60mm</p> </div> <div style="text-align: center;"> <p>"L"</p>  <p>30x90mm</p> </div> <div style="text-align: center;"> <p>"V"</p>  <p>60x30mm</p> </div> <div style="text-align: center;"> <p>"G"</p>  <p>60x60mm</p> </div> </div>	
Insulation Resistance		More than 100 MΩ by a 500V DC megger	
Degree of Protection		IP20 (for indoor use only)	
Dielectric Strength		2,000V AC direct (2,500V AC transformer, 1 minute)	
Operating Temperature		- 20° to +40°C; 15-90% relative humidity (- 10° to +40°C DC-DC converter)	
Material of Marking Plate and Color Screen		Polycarbonate	
Termination		M3.5 screw with captive sems plate (Check terminals: M3 screw with captive sems plate on applicable units)	
Maximum Size		Full voltage 10 rows, 20 columns (200 windows) Transformer and DC/DC converter (50 windows)	
Recommended Wire Size		22-14 AWG x2 (2mm <sup>2</sup> x 2)	
Approvals		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Cert. No. B970213332375</p> </div> <div style="text-align: center;">  <p>UL Recognized File No. E68961</p> <p><b>ABS</b> American Bureau of Shipping</p> </div> <div style="text-align: center;">  <p>CSA Certified File No. LR48366</p> </div> </div>	



Part Numbers (assembled)

Part Number Guide



Description		Code	Remark
① Number of Rows		01, 02, 03, 04, 05, 06, 07, 08, 09, 10	10 row maximum (always expressed in terms of "F" size windows)
② Number of Columns		01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	20 column maximum (always expressed in terms of "F" size windows)
③ Type	LED	Full voltage	DD 6V, 12V, 24V
		Full voltage with check terminal	DHM 24V only
		Full voltage 2 color (Red/Green)	DW 24V only
		Transformer	TD 120V, 240V AC
		DC-DC converter	CD 110V DC only
	Incandescent	Full voltage	DS 6V, 12V, 18V, 24V, 30V
		Transformer	TS 120V, 240V
④ Voltage	6V AC/DC	6	Type DD or DS
	12V AC/DC	1	With Type DD or DS
	18V AC/DC	8	Type DS only
	24V AC/DC	2	Type DD, DW, DS or DHM
	30V AC/DC	3	Type DS only
	120V AC	12	Type TD or TS
	240V AC	24	Type TD or TS
	110V DC	1	With Type CD
	No lamp	99	Type DS only
⑤ Style	Square	F	30x30mm
	Horizontal rectangle	H	30x60mm
	Horizontal rectangle with barrier	H2	
	Large horizontal rectangle	L	30x90mm
	Vertical rectangle	V	60x30mm
	Large square	G	60x60mm
	Combination	M	Fill out order form on next page
⑥ Color (number of windows)	Amber	A	After each color, specify the number of windows Example... A(3), G(2), R(1)
	Green	G	
	Red	R	
	Blue	S (LED version: 24V only)	
	White	W	
	Yellow	Y	

- 1. Secondary voltage on transformers and DC-DC converters is 24V.
- 2. To specify arrangement of varying window sizes and colors, use the order form on the next page.
- 3. Drawing required for any units ordered with engraving.
- 4. Incandescent models use color screen and marking plate, LED models use 2 marking plates (no color screen).

Purchase Order No. \_\_\_\_\_ Date \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_

**Fill in Part Number Below:**

Contact \_\_\_\_\_  
 Company \_\_\_\_\_  
 Phone # \_\_\_\_\_  
 Ship to \_\_\_\_\_  
 \_\_\_\_\_  
 City/State/Zip \_\_\_\_\_

<b>A</b>	Number of Amber	<input type="text"/>
<b>G</b>	Number of Green	<input type="text"/>
<b>R</b>	Number of Red	<input type="text"/>
<b>S</b>	Number of Blue	<input type="text"/>
<b>W</b>	Number of White	<input type="text"/>
<b>Y</b>	Number of Yellow	<input type="text"/>

Number of Rows	<input type="text"/>	Number of Columns	<input type="text"/>	Type Code	<input type="text"/>	Operating Voltage	<input type="text"/>	Style Code	<input type="text"/>
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**SLC30N** -

**Note:** Convert all window styles to the style F (basic unit size).

**F** = One Window  
**H** = Two Windows Wide  
**L** = Three Windows Wide  
**V** = Two Windows High  
**G** = Two x Two  
**M** = Multiple Combination

**Remarks:**

First Window (upper, left-hand corner of panel)

Basic Unit Size (style F)

**THIS SIDE UP** ↑

**COLUMNS** ↓

**ROWS** ←

**Quantity** \_\_\_\_\_

**Note:** All units ordered with one order form must be identical

**For engraving information, see page 715.**

**Order Form**

For information on how to complete the order form or to view examples, see the following page.

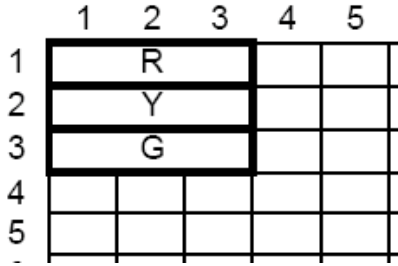
1. For part number development, see the previous page.
2. Panel cutout dimensions are on page 697.
3. Additional ordering information is on page 696.

**THIS SIDE UP** ↑

**How to complete SLC30N Series annunciator order form:**

1. Draw the SLC30N layout in the Order Form as per customer requirements. Define the boundaries of each window (F, V, H, L or G Style) and of complete annunciator panel by heavy border lines. Specify each window color with appropriate designation (eg: G for Green, R for Red, etc). See Example 1 below:

**Example 1**



2. Count number of rows and columns. eg: Example 1, Rows: 03 and Columns: 03

**SLC30N-0303**

3. Determine the type of illumination required. eg: "DD" for LED full voltage type illumination.

**SLC30N-0303-DD**

4. Determine the voltage code. eg: "2" for 24V AC/DC.

**SLC30N-0303-DD2**

5. Determine window style. eg: "L" style windows as shown in Example 1.

**SLC30N-0303-DD2LB\***

\*B denotes black frame

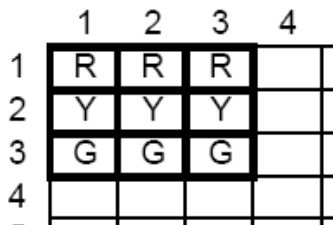
6. Count the number of different colored windows in the annunciator. Example 1 has 1 Red L-style (30x90mm) window, 1 Yellow L-style window and 1 Green L-style window.

**SLC30N-0303-DD2LB-R(1)Y(1)G(1)**

7. Now your part number is complete, please fill out contact information and fax or email the form to IDEC Customer Service for order processing. If you would like to get annunciator windows engraved, please see the information on page 745 and send us your engraving information. If you have any questions, please contact IDEC Technical Support or for additional information, view examples 2 and 3:

**Example 2**

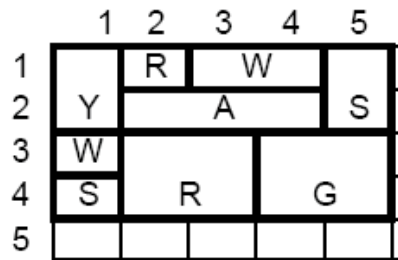
Rows=03; Columns= 03; F Style Windows (30x30mm); LED Full Voltage 24V AC/DC Illumination. Part number **SLC30N-0303-DD2FB-R(3)Y(3)G(3)**.



**Example 3:**

Rows = 04; Columns = 05; M = combination of various window styles(F, H, L V and G Style) ; LED Full Voltage 24V AC/DC Illumination.

Part number **SLC30N-0405-DD2MB-A(1)R(2)Y(1)G(1)W(2)S(2)**.








Dimensions

Panel Cut-Out Dimensions

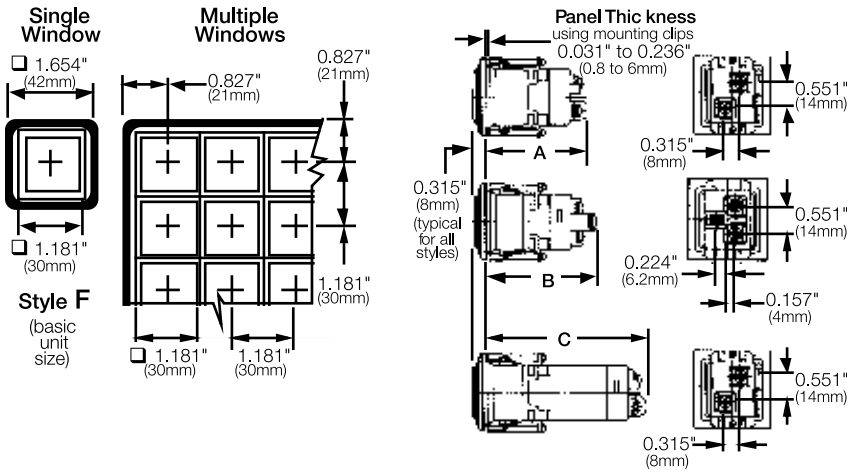
No. of Rows	No. of Columns		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Overall Panel Width Dimension →		1.654" (42mm)	2.853" (72mm)	4.016" (102mm)	5.197" (132mm)	6.378" (162mm)	7.559" (192mm)	8.740" (222mm)	9.921" (252mm)	11.102" (282mm)	12.283" (312mm)	13.465" (342mm)	14.646" (372mm)	15.827" (402mm)	17.008" (432mm)	18.189" (462mm)	19.370" (492mm)	20.551" (522mm)	21.732" (552mm)	22.913" (582mm)	24.094" (612mm)
	Overall Height ↓	Cut-out Ht ↓	Cut-out Wd ↓	1.378" (35mm)	2.559" (65mm)	3.740" (95mm)	4.921" (125mm)	6.102" (155mm)	7.283" (185mm)	8.465" (215mm)	9.646" (245mm)	10.827" (275mm)	12.008" (305mm)	13.189" (335mm)	14.370" (365mm)	15.551" (395mm)	16.732" (425mm)	17.913" (455mm)	19.094" (485mm)	20.276" (515mm)	21.457" (545mm)	22.638" (575mm)
1	1.654" (42mm)	1.378" (35mm)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2	2.853" (72mm)	2.559" (65mm)	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
3	4.016" (102mm)	3.740" (95mm)	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
4	5.197" (132mm)	4.921" (125mm)	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
5	6.378" (162mm)	6.102" (155mm)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
6	7.559" (192mm)	7.283" (185mm)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
7	8.740" (222mm)	8.465" (215mm)	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140
8	9.921" (252mm)	9.646" (245mm)	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160
9	11.102" (282mm)	10.827" (275mm)	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135	144	153	162	171	180
10	12.283" (312mm)	12.008" (305mm)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
<b>Total Number of Windows</b> (equivalent to style F—basic unit size)																						

- The number of rows and columns refers to styles equivalent to style F (basic unit size).  
For styles H, L, V, and G, convert into style F (basic unit size) equivalents.  
Style H: 1 window high (1 row) x 2 windows wide (2 columns)  
Style V: 2 windows high (2 rows) x 1 window wide (1 column)  
Style L: 1 window high (1 row) x 3 windows wide (3 columns)  
Style G: 2 windows high (2 rows) x 2 windows wide (2 columns)  
Example: 18 windows = 3 windows high (3 rows) x 6 windows wide (6 columns)  
Overall dimension (H x W): 4.016" x 7.559" (102 x 192mm)  
Panel cut-out (H x W): 3.740" x 7.283" (95 x 185mm)  
Tolerance: +0.039" (1mm), -0
- For part numbering information, see page 724.

Window Dimensions

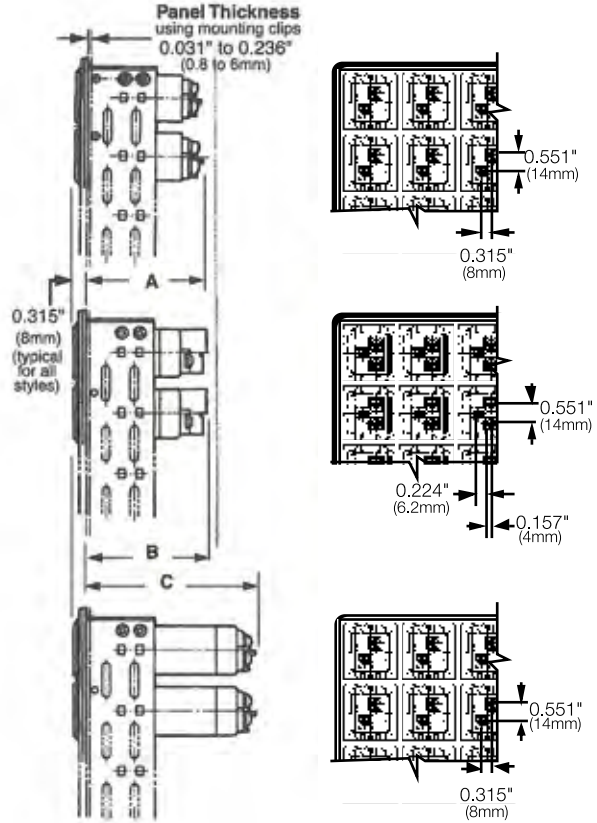
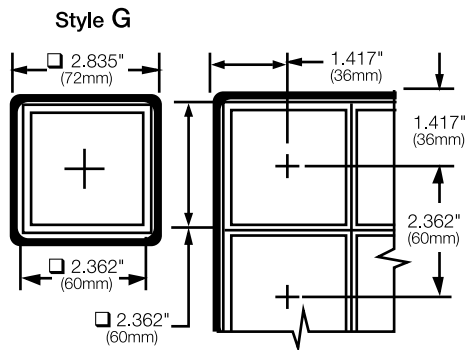
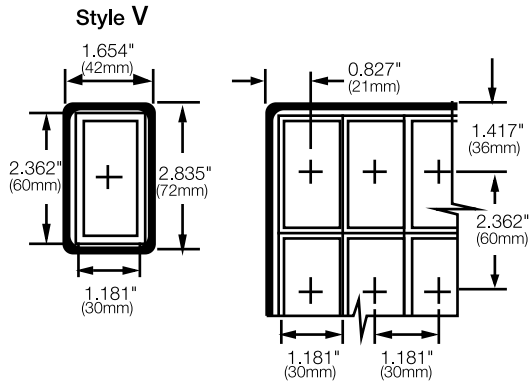
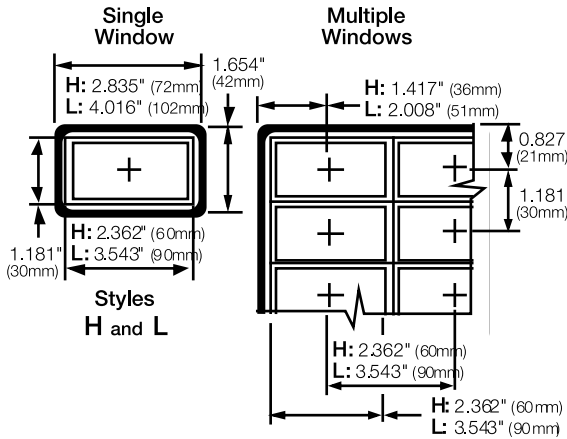
Window Style	Style F	Style H	Style L	Style V	Style G	
Appearance						
Window Size	Illumination Face (H x W)	1.181" x 1.181" (30 x 30mm)	1.181" x 2.362" (30 x 60mm)	1.181" x 3.543" (30 x 90mm)	2.362" x 1.181" (60 x 30mm)	2.362" x 2.362" (60 x 60mm)
	Lens (H x W)	1.102" x 1.102" (28 x 28mm)	1.102" x 2.283" (28 x 58mm)	1.102" x 3.432" (28 x 88mm)	2.283" x 1.102" (58 x 28mm)	2.283" x 2.283" (58 x 58mm)
	Marking Plate (H x W x t)	1.062" x 1.062" x 0.04" (27 x 27 x 1.0mm)	1.062" x 2.244" x 0.04" (27 x 57 x 1.0mm)	1.062" x 3.425" x 0.04" (27 x 87 x 1.0mm)	2.244" x 1.062" x 0.04" (57 x 27 x 1.0mm)	2.244" x 2.244" x 0.04" (57 x 57 x 1.0mm)
	Color Screen (H x W x t)	1.062" x 1.062" x 0.04" (27 x 27 x 1.0mm)	1.062" x 2.244" x 0.04" (27 x 57 x 1.0mm)	1.062" x 3.425" x 0.04" (27 x 87 x 1.0mm)	2.244" x 1.062" x 0.04" (57 x 27 x 1.0mm)	2.244" x 2.244" x 0.04" (57 x 57 x 1.0mm)
	Engraving Area	0.984" x 0.984" (25 x 25mm)	0.984" x 2.165" (25 x 55mm)	0.984" x 3.346" (25 x 85mm)	2.165" x 0.984" (55 x 25mm)	2.165" x 2.165" (55 x 55mm)

Dimensions, continued

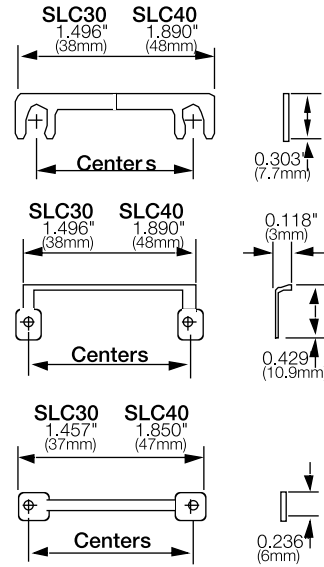


Styles F, H, L, V, G:  
Single Window (right)  
Multiple Windows (below)

	Description	LED	Incandescent
A	Full voltage	2.146" (54.5mm)	2.264" (57.5mm)
	Full voltage LED 2-color alternate	2.343" (59.5mm)	—
C	Transformer	3.228" (82mm)	—
	DC-DC converter	3.228" (82mm)	—
	Transformer	—	3.228" (82mm)
Terminals (X1, X2)		M3.5 screw	
Check terminal (C)		M3 screw	
Same terminals, adjacent windows		1.181" (30mm) centers	

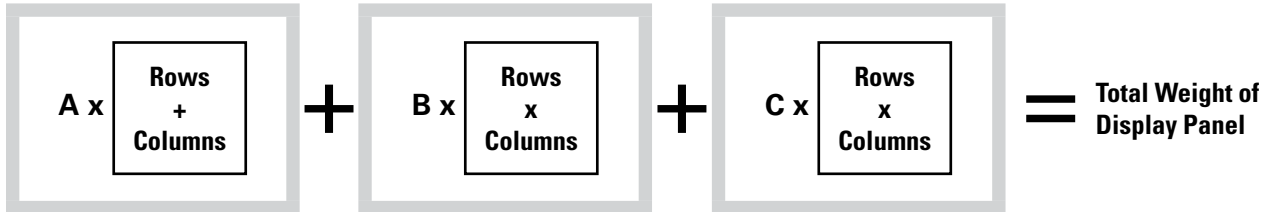


## Dimensions, continued



## Instructions

### Estimating Weights



1. Make sure that the panel thickness is sufficient to support the total weight of the display panel(s).

A Frame Weight	B Housing Weight	Full Voltage	Transformer (incandescent/LED)	DC-DC Converter (LED only)
		C Lamp/LED Weight (includes lamp/LED)		
0.68oz (22g)	0.53oz (17g)	0.65oz (21g)	2.36oz (76g)	1.77oz (52g)

2. Weights are approximate.

Example:

SLC30N-0304-DD2FB

Total weight = A (rows + columns) + B (rows x columns) + C (rows x columns)

Total weight = 0.68 (3+4) + 0.53 (3x4) + 0.65 (3x4) = 19.92 oz



**SLC30-IPS Series – Panel Mounted Annunciators**

**SLC Series Panel Mounted Annunciators – an Ideal Alternative to Mounting Multiple Pilot Devices**

**SLC30-IPS combination display lights with control units combine display lights with control units such as pushbuttons, illuminated pushbuttons, selector switches and keylock selector switches.**

This results in savings of both space and installation time, since mounting separate switches becomes unnecessary. SLC30-IPS combination display lights can be custom built to meet your specifications.

Key features of the SLC30-IPS series include:

- Switches are integrated into an assembled SLC matrix, requiring only one panel cutout
- Illuminated, non-illuminated, selector, and key-switches are available
- Five window sizes based on a 30mm grid
- Non-reflective clear lenses
- Incandescent or Superbright LED illumination
- Momentary pushbuttons only



Momentary Illuminated Pushbuttons  
Square or Round with Square Bezel

Momentary Non-Illuminated Pushbuttons  
Square or Round with Square Bezel

Selector Switches  
2-Position or 3-Position



Switches & Pilot Lights

Signaling Lights

Relays & Sockets









Timers

Contactors

Terminal Blocks

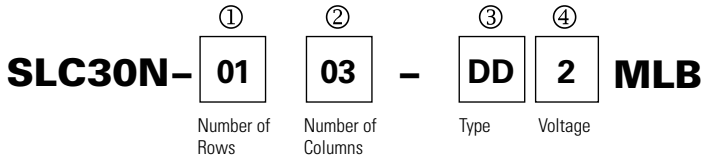
Circuit Breakers

## Specifications

Light Source		LED	Incandescent
Nominal Voltages	Full Voltage	6, 12, 24V AC/DC	6, 12, 18, 24, 30V AC/DC
	Transformer	120, 240V AC	120, 240V AC
	DC-DC Conv.	110V DC	110V DC
Maximum Voltage		250V AC/DC	
Contact Thermal Current		3A (gold contact), 5A (silver contact)	
Contact Operating Current		Gold contact: 125V AC/0.1A, 30V DC/0.1A (resistive load) Silver contact: 125V AC/3A, 250V AC/2.0A (resistive load), 30V DC/2A, 125V DC/0.4A (resistive load)	
Control Unit Types		Pushbuttons: Square or round, illuminated or non-illuminated (momentary only)	
		Selector switches: 2-position or 3-position, maintained	
		Keylock switches: 2-position or 3-position, maintained	
Colors		Amber, Green, Red, Yellow, Blue (24V only), White, dual color Red/Green (24V only)	Amber, Green, Red, Yellow, Blue, White
Lamp Type		Surface (Chip type) LED cluster	BA9S/13 (T3-1/4) bayonet base (1W)
Available Window Sizes		<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <p>"F"</p>  30x30mm             </div> <div style="text-align: center;"> <p>"H"</p>  30x60mm             </div> <div style="text-align: center;"> <p>"L"</p>  30x90mm             </div> <div style="text-align: center;"> <p>"V"</p>  60x30mm             </div> <div style="text-align: center;"> <p>"G"</p>  60x60mm             </div> </div>	
Insulation Resistance		More than 100 MΩ by a 500V DC megger	
Degree of Protection		IP20 (for indoor use only), Type 1	
Dielectric Strength		2,000V AC direct (2,500V AC transformer, 1 minute)	
Operating Temperature		-20° to +40°C; 15-90% relative humidity (-10° to +40°C DC-DC converter)	
Material of Marking Plate and Color Screen		Polycarbonate	
Termination		M3.5 screw with captive sems plate (Check terminals: M3 screw with captive sems plate on applicable units)	
Maximum Size		Full voltage: 10 rows, 20 columns (200 windows) Transformer and DC/DC converter: 50 windows	
Recommended Wire Size		22-14 AWG x2 (2mm <sup>2</sup> x 2)	
Approvals		<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  <p>Cert. No. B970213332375</p> </div> <div style="text-align: center;">  <p>UL Recognized File No. E68961</p> </div> <div style="text-align: center;">  <p>CSA Certified File No. LR48366</p> </div> </div>	

Part Numbers (assembled)

Part Number Guide



Description		Code		Remark	
① Number of Rows		01, 02, 03, 04, 05, 06, 07, 08, 09, 10		10 row maximum (number of base unit (F-style) windows)	
② Number of Columns		01, 02, 03, 04, 05, 06, 07, 08, 09, 10 11, 12, 13, 14, 15, 16, 17, 18, 19, 20		20 column maximum (number of base unit (F-style) windows)	
③ Type	LED	Full voltage	Standard	DD	6V, 12V, 24V
			With check terminal	DHM	24V only
			2 color (Red/Green)	DW	24V only
	Incandescent	Transformer		TD	120V, 240V AC
			DC-DC converter	CD	110V DC only
			Full voltage	DS	6V, 12V, 18V, 24V, 30V
④ Voltage		Transformer	TS	120V, 240V	
		6V AC/DC	6	Type DD or DS	
		12V AC/DC	1	With Type DD, DHM or DS	
		18V AC/DC	8	Type DS only	
		24V AC/DC	2	Type DD, DHM, DW, or DS	
		30V AC/DC	3	Type DS only	
		120V AC	12	Type TD or TS	
		240V AC	24	Type TD or TS	
		110V DC	1	With Type CD	
		No lamp	99	Type DS only	

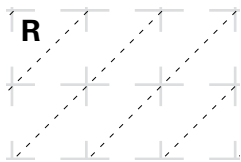
1. Secondary voltage on transformers and DC-DC converters is 24V.
2. To specify arrangement of varying window sizes and colors, use the order form on the next page.
3. Drawing required.

SLC30-IPS Order Form Instructions

How to order a SLC30-IPS display light:

Example 1: Specifying a window color

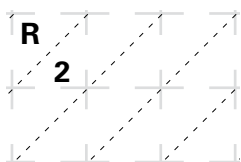
Enter the lens illumination color code in each square. Use the table below for color codes.



This example would place a Red window in this location

Example 2: Specifying a control unit

Enter the lens illumination color code in each square. Use the table below for color codes.



This example would place a Red, square, illuminated pushbutton with silver contacts in this location

Color Codes

Color	Code
Amber	A
Green	G
Red	R
Blue	S
White	W
Yellow	Y

Control Unit Codes

Type	Contact Type	
	Gold	Silver
Square illuminated pushbutton (DPDT)	1	2
Round illuminated pushbutton (DPDT)	3	4
Square pushbutton (DPDT)	5	6
Round pushbutton (DPDT)	7	8
Selector switch (2-position)	9	10
Selector switch (3-position)	11	12
Keylock selector switch (2-position)	13	14
Keylock selector switch (3-position)	15	16

For assistance with developing part numbers or completing the order form on the next page, contact IDEC technical support.

Purchase Order No. \_\_\_\_\_ Date \_\_\_\_\_ Sheet \_\_\_\_\_ of \_\_\_\_\_

**Fill in Part Number Below:**

Contact \_\_\_\_\_

Company \_\_\_\_\_

Phone # \_\_\_\_\_

Ship to \_\_\_\_\_

City/State/Zip \_\_\_\_\_

SLC30N —

Number of Rows   —

Number of Columns    —

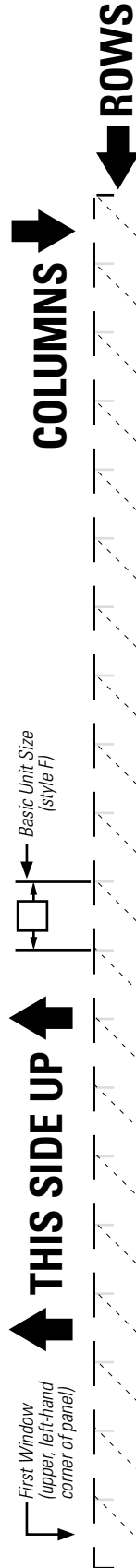
Type Code

Lamp Voltage

MLB Black Frame

*Note: Convert all window styles to the style F (basic unit size).*

**Remarks:**



Quantity \_\_\_\_\_

**Note:** All units ordered with one order form must be identical

For engraving information, see page 715.

**Order Form**

For information on how to complete the order form or to view examples, see the following page.

↑ THIS SIDE UP

- For SLC30-IPS ordering form instruction, see previous page.
- See engraving information on page 715.
- See panel cutout dimensions on page 705.
- Additional ordering information is on page 702 and 704.

**How to complete SLC30N-IPS Series annunciator order form:**

1. Determine the type of switches you would like to include in the annunciator panel. For this example, we will include the following 3 types of switches:
  - i. Red Square illuminated pushbutton DPDT with silver contacts.
  - ii. Yellow round non-illuminated push button DPDT with silver contacts.
  - iii. 2 Position keylock selector switch with silver contacts.

2. From chart shown on page 732,

CODE	DESCRIPTION
<b>R/2</b>	Red Square Illuminated Push Button DPDT with Silver Contacts.
<b>Y/8</b>	Yellow Round Non-illuminated Push Button DPDT with Silver contacts
<b>14</b>	2 Position Keylock Selector Switch with Silver contacts.

Enter the above mentioned CODE designation in the layout window (on the previous page), where you would like the respective switch to be installed.

3. Determine the type of 30x30mm illuminated windows you would like to include. For the current example, we will assume 3 F-Style (30x30mm) windows in Yellow, Green and White color. Specify each window color in the Order Form with appropriate designation: "Y" for Yellow, "G" for Green and "W" for White.

4. Define the boundaries of each window (F, V, H, L or G Style) and of complete annunciator panel by heavy border lines, as shown below.

	1	2	3	4
1	Y	G	W	
2	R/2	Y/8	14	
3				
4				

5. Count the number of rows and columns in the SLC30N diagram. eg: For the current example, we have, Rows: 02 and Columns: 03.

**SLC30N-0203**

6. Determine the type of illumination for SLC30N annunciator. eg: For the current example, we use, "DD" for LED Full Voltage type illumination.

**SLC30N-0203-DD**

7. Determine the voltage code; for the current example, we will use 24V AC/DC for all illuminated windows and illuminated switches. This is designated by using the number "2".

**SLC30N-0203-DD2**

8. The complete part number would be:

**SLC30N-0203-DD2MLB**

9. **A drawing must be provided for each of these parts ordered.**



Note: Buttons and switches are only available in 'F' (30 x 30mm) window sizes.

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

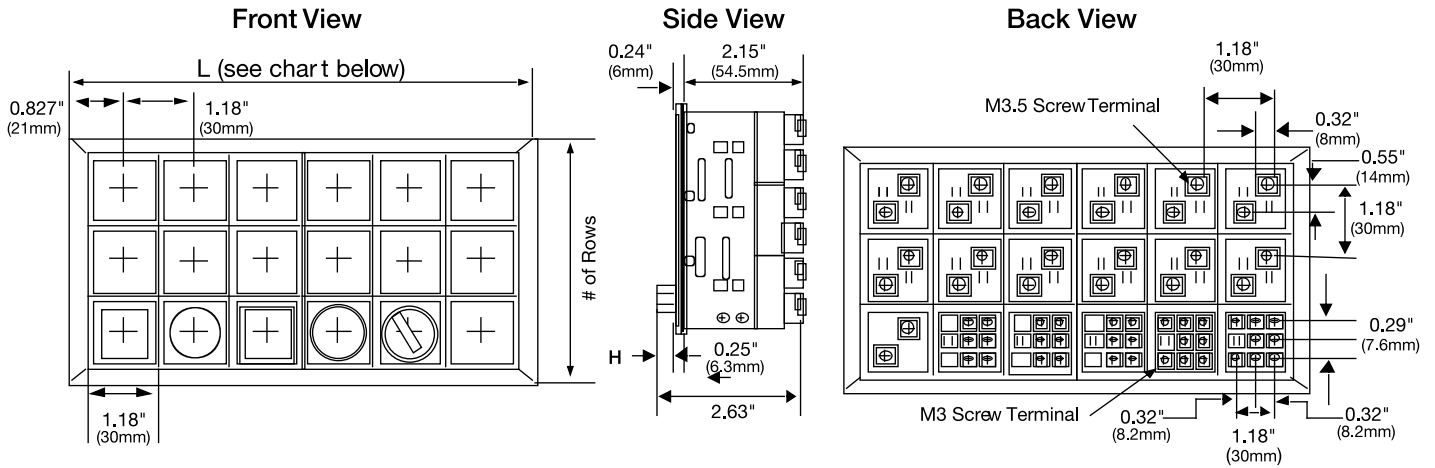
Timers

Contactors

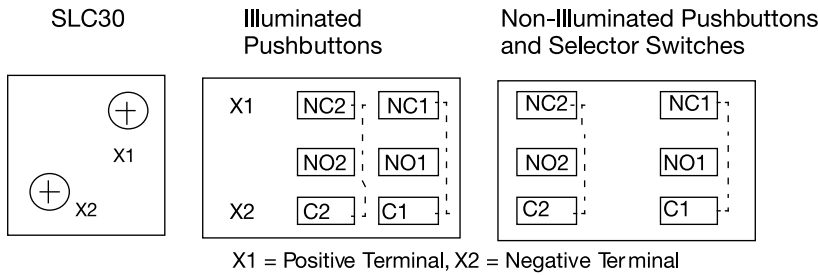
Terminal Blocks

Circuit Breakers

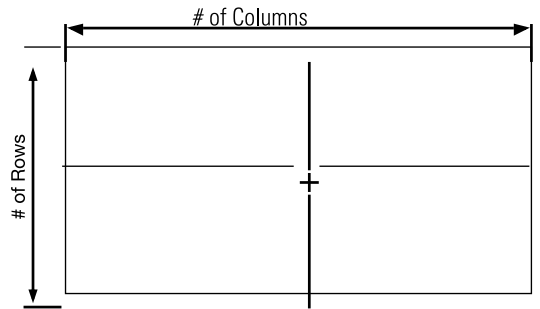
## Dimensions



## Bottom View



## Panel Cut-Out Size

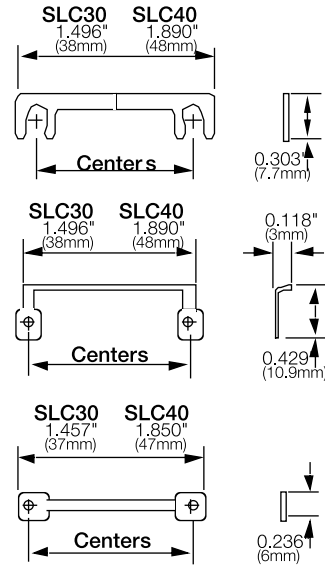


## Panel Cut-Out Dimensions

No. of Rows	No. of Columns		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	Overall Panel Width Dimension →		1.654" (42mm)	2.853" (72mm)	4.016" (102mm)	5.197" (132mm)	6.378" (162mm)	7.559" (192mm)	8.740" (222mm)	9.921" (252mm)	11.102" (282mm)	12.283" (312mm)	13.465" (342mm)	14.646" (372mm)	15.827" (402mm)	17.008" (432mm)	18.189" (462mm)	19.370" (492mm)	20.551" (522mm)	21.732" (552mm)	22.913" (582mm)	24.094" (612mm)
	Overall Height ↓	Cut-out Ht ↓	Cut-out Wd ↓	1.378" (35mm)	2.559" (65mm)	3.740" (95mm)	4.921" (125mm)	6.102" (155mm)	7.283" (185mm)	8.465" (215mm)	9.646" (245mm)	10.827" (275mm)	12.008" (305mm)	13.189" (335mm)	14.370" (365mm)	15.551" (395mm)	16.732" (425mm)	17.913" (455mm)	19.094" (485mm)	20.276" (515mm)	21.457" (545mm)	22.638" (575mm)
1	1.654" (42mm)	1.378" (35mm)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2	2.853" (72mm)	2.559" (65mm)	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
3	4.016" (102mm)	3.740" (95mm)	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60
4	5.197" (132mm)	4.921" (125mm)	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
5	6.378" (162mm)	6.102" (155mm)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
6	7.559" (192mm)	7.283" (185mm)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
7	8.740" (222mm)	8.465" (215mm)	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140
8	9.921" (252mm)	9.646" (245mm)	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160
9	11.102" (282mm)	10.827" (275mm)	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135	144	153	162	171	180
10	12.283" (312mm)	12.008" (305mm)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200

Total Number of Windows (equivalent to style F—basic unit size)

Dimensions, continued








Contact Operations

Selector Switches and Keylock Selector Switches






	Position	Contacts	Operator Position and Contact Operation (top view)		
			Left	Center	Right
Contact Operation	90° 2-position maintained 	DPDT 2-position	Left: NO NC Right: NO NC	—	Left: NO NC Right: NO NC
	45° 3-position maintained 	DPDT 3-position	Left: NO NC Right: NO NC	Left: NO NC Right: NO NC	Left: NO NC Right: NO NC

Engraving Information

Part Numbers: SLC30 Engraving Plates

Window Type	Part No.	Character Size	Maximum Characters per Line	Maximum Lines
F  30x30mm	SLC-3PF	7/32	9	4
		3/16	10	4
		5/32	11	5
		9/64	12	6
		1/8	13	7
H  30x60mm	SLC-3PH	5/16	10	3
		7/32	15	4
		5/32	19	6
L  30x90mm	SLC-3PL	5/16	16	3
		7/32	22	4
		5/32	28	6
V  60x30mm	SLC-3PV	5/16	6	7
		7/32	8	9
		5/32	10	13
G  60x60mm	SLC-3PG	5/16	12	7
		7/32	15	10
		5/32	18	14

Part Numbers SLC40 Engraving Plates

F  40x40mm	SLC-4PF	5/16	8	4
		7/32	11	6
		5/32	14	8
H  40x80mm	SLC-4PH	5/16	17	4
		7/32	20	6
		5/32	24	8
L  40x120mm	SLC-4PL	5/16	22	4
		7/32	30	6
		5/32	34	8
V  80x40mm	SLC-4PV	5/16	7	8
		7/32	10	9
		5/32	12	14
G  80x80mm	SLC-4PG	5/16	12	7
		7/32	15	10
		5/32	18	14

Engraving Size Samples

**5/16" size**

**7/32" size**

**3/16" size**

**5/32" size**

**9/64" size**

**1/8" size**

Engraving Size Samples

**5/16" size**

**7/32" size**

**5/32" size**

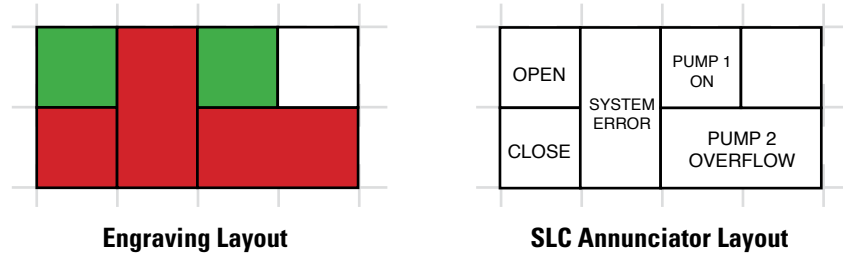


### Engraving Example

Engraving information can be provided in two ways:

#### Method 1

If you have created your own SLC annunciator layout and there is enough space to write engraving information, please print out a copy of the layout and write what you would like to be engraved in respective window. Attach this with the Order Form and send it to IDEC Customer Service for processing.

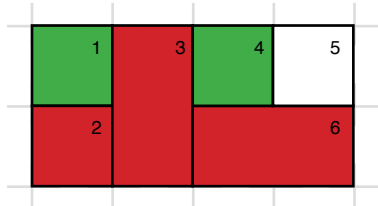


Engraving Layout

SLC Annunciator Layout

#### Method 2

If you are using the Order Form from the IDEC Automation Catalog and do not have enough space to list engraving information, you can number the top right corner of the window you would like to be engraved.

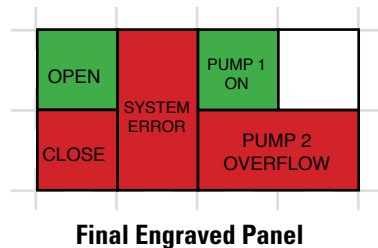


Keeping engraving window type, character size, maximum character per line and maximum number of lines in perspective, create a table (see Engraving Table Example shown below). Please attach the Table along with SLC annunciator layout and send it to IDEC Customer Service for processing.

#### Engraving Table Example

Window	Font Size	Engrave
1	7/32"	"OPEN"
2	7/32"	"CLOSE"
3	7/32"	"SYSTEM" "ERROR "
4	3/16"	"PUMP 1" "ON"
5		NO ENGRAVING
6	5/32"	"PUMP 2" "OVERFLOW"

Using method 1 or 2, the final engraved panel will look as below:



Final Engraved Panel

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

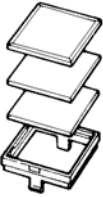



Timers

Contactors

Terminal Blocks

Circuit Breakers

## Accessories

Description		Application		Part No.	Remarks
Lenses		SLC30 incandescent, LED	F	SLC-3LF-(UL)	A lens is included with each window on assembled units
			H and V	SLC-3LH-(UL)	
			L	SLC-3LL-(UL)	
			G	SLC-3LG-(UL)	
		SLC40 incandescent, LED	F	SLC-4LF-(UL)	
			H and V	SLC-42H-(UL)	
			L	SLC-4LL-(UL)	
			G	SLC-4LG	
Color Screens		SLC30 incandescent	F	SLC-3PF-*(UL)	Specify color code in place of asterisk ( * ): A = Amber C = Transparent G = Green (incandescent) R = Red S = Blue W = White Y = Yellow
			H and V	SLC-3PH-*(UL)	
			L	SLC-3PL-*(UL)	
			G	SLC-3PG-*	
		SLC40 incandescent	F	SLC-4PF-*(UL)	
			H and V	SLC-4PH-*	
			L	SLC-4PL-*(UL)	
			G	SLC-4PG	
Marking Plates		SLC30 incandescent, LED	F	SLC-3PF-□-(UL)	Specify color code in place of square ( □ ): C = Transparent (LED) W = White (incandescent) WL = White (LED)
			H and V	SLC-3PH-□-(UL)	
			L	SLC-3PL-□-(UL)	
			G	SLC-3PG-□-(UL)	
		SLC40 incandescent, LED	F	SLC-4PF-□-(UL)	
			H and V	SLC-4PH-□-(UL)	
			L	SLC-4PL-□-(UL)	
			G	SLC-4PG	
Lens Frames		SLC30 incandescent only	F	SLC-3WF-B	A lens frame is included with each window on assembled units Lens frame for LED modules has the inner walls painted white, while the incandescent frame is completely black.
			H	SLC-3WH-B	
			V	SLC-3WV-B	
			L	SLC-3WL-B	
			G	SLC-3WG-B	
		SLC30 LED only	F	SLC-3WF-BL	
			H	SLC-3WH-BL	
			V	SLC-3WV-BL	
			L	SLC-3WL-BL	
			G	SLC-3WG-BL	
		SLC40 incandescent only	F	SLC-4WF-B	
			H	SLC-4WH-B	
			V	SLC-4WV-B	
			L	SLC-4WL-B	
			G	SLC-4WG-B	
		SLC40 LED only	F	SLC-4WF-BL	
V	SLC-4WV-BL				
L	SLC-4WL-BL				
G	SLC-4WG-BL				

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

Terminal Blocks

Circuit Breakers

Switches & Pilot Lights

Signaling Lights



Relays & Sockets

Timers

Contactors





Terminal Blocks

Circuit Breakers

Description	Application	Part No.	Remarks	
<b>Incandescent Lamps</b> 	BA9S/13 (1W) SLC30 incandescent only BA9S/13 lamp base	IS-6	6.3V, 1W; operating voltage: 5 to 6V AC/DC	
		IS-12	12V, 1W; operating voltage: 9 to 12V AC/DC	
		IS-24	24V, 1W; operating voltage: 18 to 24V AC/DC	
		IS-30	30V, 1W; operating voltage: 24 to 30V AC /DC	
	E12/15 (2W) SLC40 incandescent only E12/15 lamp base	LE-6	6.3V, 2W; operating voltage: 5 to 6V AC/DC	
		LE-8	18V, 2W; operating voltage: 12 to 18V AC/DC	
		LE-2	24V, 2W; operating voltage: 18 to 24V AC/DC	
		LE-3	30V, 2W; operating voltage: 24 to 30V AC/DC	
<b>LED Lamps</b> 	SLC30 LED only 1-color	6V AC/DC	SLDN-36F-*	
		12V AC/DC	SLDN-31F-*	
		24V AC/DC	SLDN-32F-*	
	SLC30 LED only 2-color: Red/Green	24V AC/DC	SLDN-32FW-RG	Specify color code in place of asterisk (*): A = Amber G = Green R = Red S = Blue (available in 24V version only) W = White Y = Yellow
		SLC40 LED only 1-color	6V AC/DC	
	12V AC/DC		SLCN-1ET-*	
	24V AC/DC		SLCN-2ET-*	
	SLC40 LED only 2-color: Red/Green	24V AC/DC	SLCN-2ETW-RG	

**Replacement Parts**

Full Voltage Models		Description	Type	Part Number
<b>SLC30</b> 	Incandescent	Incandescent	DS	SLC-3DS
		Standard LED	DD	SLDN-3DH
	LED	LED w/ Check Terminal	DHM	SLD-3DHM
		Dual Color LED	DW	SLD-3DW
<b>SLC 40</b> 	Incandescent	Incandescent	DE	SLC-4DE
		Incandescent w/ Check Terminal	DEM	SLC-4DEM
	LED	Standard LED	DD	SLDN-4DH
		LED w/ Check Terminal	DHM	SLD-4DHM
		Dual Color LED	DW	SLD-4DW
Step Down Models		Description	Type	Part Number
<b>SLC30</b> 	Incandescent	Incandescent xfrm, 120V AC	TS12	SLC-3TS120
		Incandescent xfrm, 240V AC	TS24	SLC-3TS240
	LED	LED xfrm, 120V AC	TD12	SLDN-3TH12
		LED xfrm, 240V AC	TD24	SLDN-3TH24
		LED DC-DC converter, 110V DC	CD1	SLDN-3CH1
<b>SLC40</b> 	Incandescent	Incandescent xfrm, 120V AC	TE12	SLC-4TE12
		Incandescent xfrm, 240V AC	TE24	SLC-4TE240
	LED	LED xfrm, 120V AC	TD12	SLDN-4TH120
		LED xfrm, 240V AC	TD24	SLDN-4TH240
		LED DC-DC converter, 110V DC	CD1	SLDN-4CH1

Description	Application	Part No.	Remarks
Lamp Holder Tool	SLC30 and SLC40 incandescent	OR-55	Rubber tool eases the removal of incandescent lamps
Tab Terminal Adaptors 	Used for wiring quick-connect terminals	TW-FA1	#250 tab terminal (W x H): 0.250" x 0.031" (6.35 x 0.8mm) single tab
Jumpers 	SLC30	X1 terminal (spade)	SLC-JP30
		X2 terminal (ring)	SLCN-JP34
		C terminal (ring)	SLC-JP32
	SLC40	X1 terminal (spade)	SLC-JP40
		X2 terminal (ring)	SLCN-JP44
	C terminal (ring)	SLC-JP42	Total number of jumpers equals total number of style F window equivalents
Mounting Clip 	All SLCs	SLC-3K1	Mounting clips are included with the panel (see page 752 for details about quantity and placement).
Marking Strip		BNM2	White glossy paper with adhesive back (the dimensions are given below); the marking strip can be stuck to the terminal transformer or directly to the units for identification of the unit or circuit number; Sticker dimension (W x L): 0.197" x 393.701" (5 x 10,000mm)
Finger-Safe Terminal Covers 	Use with SLC30 types DD, TD, CD, DS and TS	SLC30-VL3	
	Use with all SLC30 types DHM and DW	SLC30-VL6	
	Use with SLC40 types DD, TD, CD, DE and TE	HW-VL3	
	Use with SLC40 types DHM, DW, and DEM	SLC40-VL6	

Switches & Pilot Lights

Signaling Lights

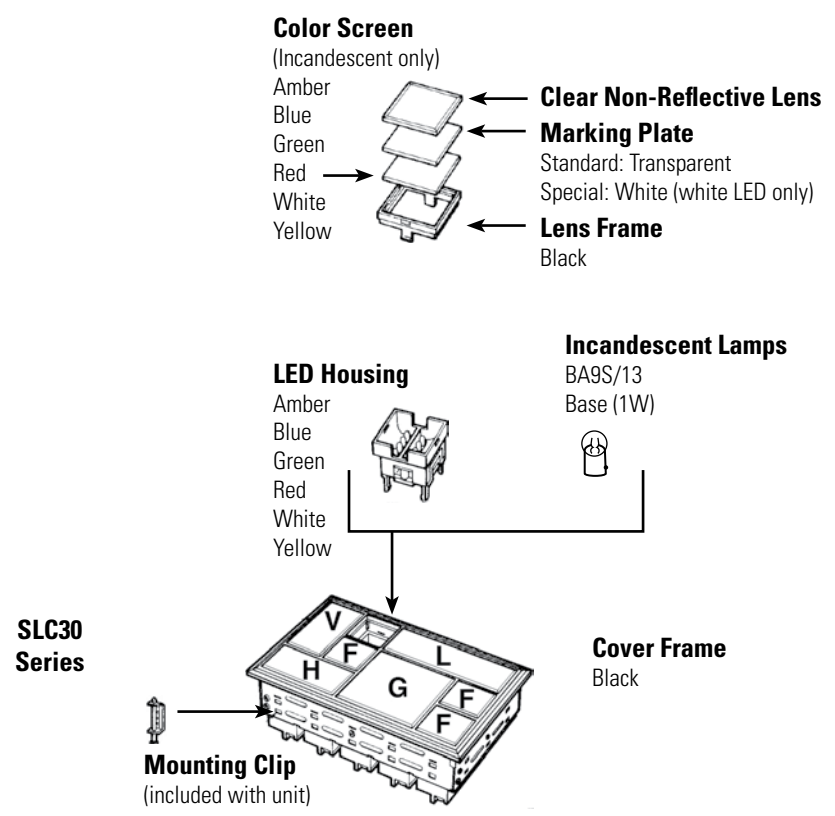
Relays & Sockets

Timers

Contactors

Terminal Blocks

Circuit Breakers



SLC Series Installation Instructions

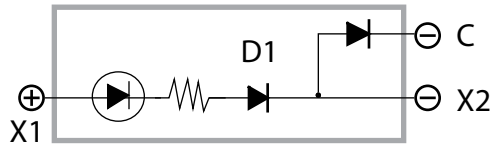
Installation Notes

1. Since lamps generate heat, it is recommended that ventilation be provided for cooling when more than ten lamps are lit continuously.
2. A lower number of windows is specified for multiple transformer and DC-DC converter units (50 maximum, instead of 200 as for full voltage only). This is done to avoid damage which may result from excessive heat generation when all lamps are lit simultaneously.
3. When multiple units are panel mounted, determine panel thickness so that the combined weight of all units and connecting wires can be supported.
4. Multiple units are not designed for continuous, 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 40 minutes.
5. Before removing the LED unit, turn the power supply off.
6. DC-rated voltages for LED units are complete direct current voltages. Make sure to check the measuring instruments and compensate for any error in the measured, full-wave rectified or pulsating voltages.
7. To ensure brightness and long life of LED units, keep the DC power voltage within the operating voltage range.

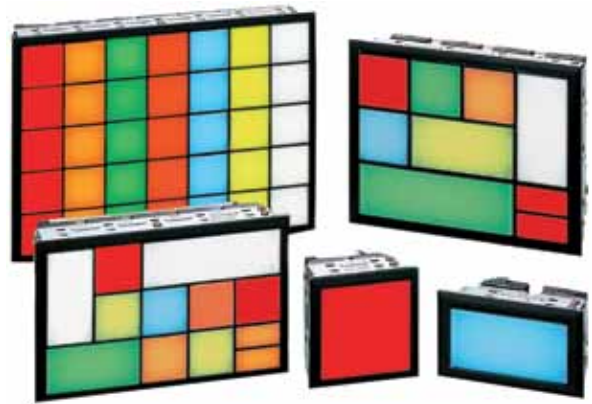
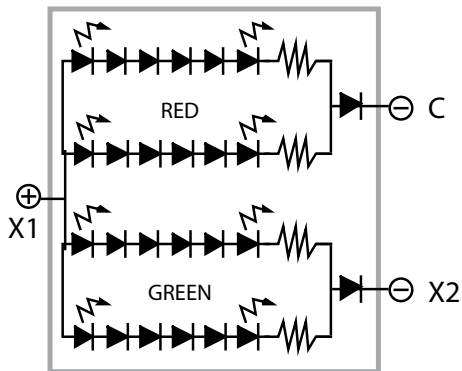
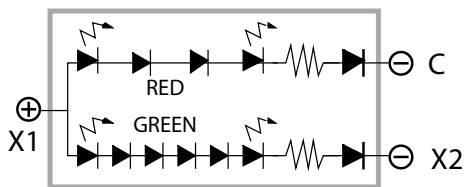
**LED Operating Voltage Range: 24V AC/DC ± 10%**

Terminal Arrangements (LED units)

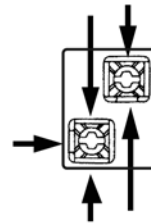
For full voltage (1- and 2-color) and DC-DC converter LED units, terminal X1 is positive and terminal X2 is negative. Make sure to observe polarity when wiring.



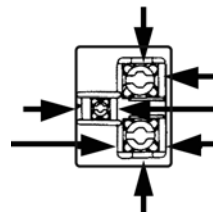
For 2-color alternate units, terminal X1 is positive, and terminals X2 and C (check terminal) are negative.



SLC30/SLC40 Full Voltage DC-DC Converter



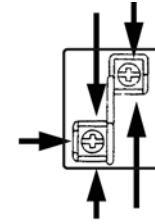
SLC30/SLC40 Full Voltage with Check Terminal



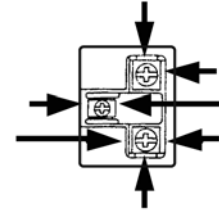
SLC30



SLC30/SLC40 Transformer



SLC30/40 2-color LED (alternating)



SLC40



Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

Terminal Blocks

Circuit Breakers

## Installation Instructions, continued

### Removing Windows

**SLC30:** To remove a window, insert the tip of a small screwdriver into the slot under the lens frame and gently press down on the screwdriver.

**SLC40:** To remove an extended window, pull on the top as if to extend the unit; then continue pulling until the unit comes out of the housing. All units are shipped with windows retracted. When transporting units, make sure windows are pushed in fully. After windows are installed, they can be extended as shown in Figure 1.

### Removing Lens, Color Screen, and Marking Plate

The lens has two retaining projections on the right and two on the left. To remove the lens, color screen, and marking plate from the lens frame, push open the lens frame with both hands as shown in Figure 2.

The lens can also be removed by inserting a screwdriver into one of the sides with recesses. Since the lens has an orientation, be sure to insert the screwdriver in the direction shown in Figures 3 and 4.

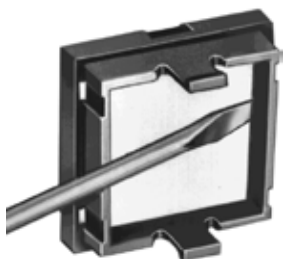


Figure 3: SLC30



Figure 4: SLC40

### Installing Lens, Color Screen, and Marking Plate

First, install the marking plate and color screen into the lens frame. To install the lens, insert its retaining projections into the recesses inside the lens frame, and press the lens into the lens frame as shown in Figure 5.

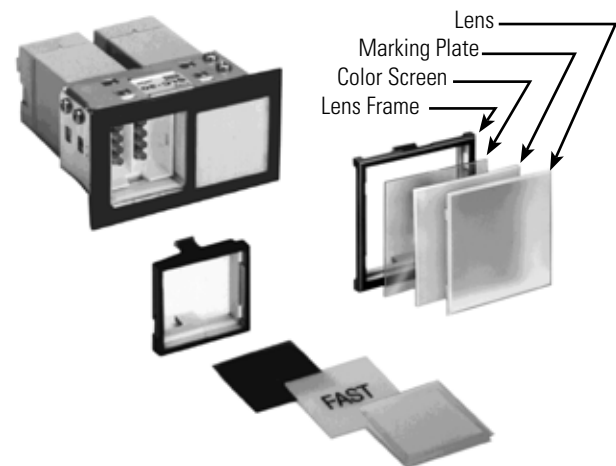


Figure 5: SLC30 and SLC40

### Replacing the LED Unit

**To remove:** Insert the tip of a screwdriver into one of the two slots inside the LED unit. Pull the LED unit straight out without pressing on the LED terminals, as shown in Figure 6.

**To install:** Make sure that the junction inside the LED unit is aligned in the same direction as the junction of the LED housing. Push the LED unit into the LED housing as shown in Figure 7.



Figure 6: Remove LED



Figure 7: Install LED

### Installing Units into a Panel

**Single units:** With leaf springs installed, push the SLC housing from the front of the panel. Secure the SLC housing with two mounting clips. Tighten the mounting clip screws to a torque of 4 to 5 kgf-cm as shown in Figure 8.

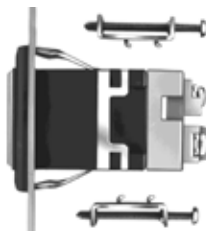


Figure 8: SLC40

**Multiple combination units:** Insert the units into the panel cut-out from the front. Install the attached mounting clips into the openings on the frame, and tighten the screws as shown in Figure 9. After tightening, use Loctite to prevent loosening. The number of mounting clips included with each multiple unit varies with the number of windows as shown in the table below.

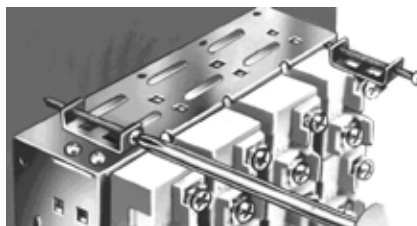



Figure 9: Multiple Combination

SLC Series Installation Instructions, continued

Number of Mounting Clips Included

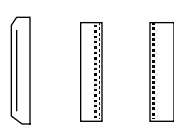
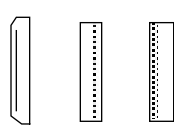
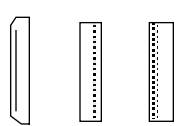
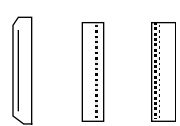
Columns	1 or 2		3 to 8		9 to 15	16 to 20 *
Rows	Full Voltage	Others	Full Voltage	Others	All Types	All Types
1 or 2	2		4		6	8
3 to 6	4	6	6	8	8	10
7 to 10 (SLC30 only)	6	8	8		10	12

 \* SLC30 series only

Recommended Mounting Clip Positions

Columns	1 or 2		3 to 8		9 to 15	16 to 20*
Rows	Full Voltage	Others	Full Voltage	Others	All Types	All Types
1 or 2	2 Clips		4 Clips		6 Clips	8 Clips
3 to 6	4 Clips	6 Clips	6 Clips	8 Clips	8 Clips	10 Clips
7 to 10 (SLC30 only)	6 Clips	8 Clips	8 Clips		10 Clips	12 Clips

Assembly Order for Lamp On/Lamp Off Colors

Lamp On: Amber, Blue Green, Red, Yellow	Lamp On: White	Lamp On: Red/Green
Lamp Off: Desired Color	Lamp Off: White	Lamp Off: White
<p><b>Matte Surface</b> (non-shiny)</p>  <p><b>Light Source</b></p> <p>Lens    Color    Marking Screen:    Plate: Any Color    White</p>	<p><b>Matte Surface</b> (non-shiny)</p>  <p><b>Light Source</b></p> <p>Lens    Marking    Color Plate:    Screen: White    Any Color</p>	<p><b>Matte Surface</b> (non-shiny)</p>  <p><b>Light Source</b></p> <p>Lens    Marking    Color Plate:    Screen: White    White</p>
<p><b>Matte Surface</b> (non-shiny)</p>  <p><b>Light Source</b> (LED only)</p> <p>Lens    Marking    Color Plate:    Screen: White    White</p>		