

SLC40 Series – Panel Mounted Annunciators

SLC 40 Series Annunciators

SLC series panel mounted annunciators are 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 SLC40 series include:

- Custom configurations with up to 105 windows
- Four window sizes based on a 40mm grid
- Non-reflective clear lenses that can be extended (angled) for better visibility when mounted in higher locations
- Incandescent or Superbright LED illumination
- Wide variety of input voltages



Cert No.
B970213332375

ABS
American
Bureau of
Shipping



UL Recognized
File No. E68961



CSA Certified
File No.
LR48366



Extended Windows



Style F
(40mm x 40mm)



Style G
(80mm x 80mm)



Style H
(40mm x 80mm)



Style L
(40mm x 120mm)



Style V
(80mm x 40mm)



Staggered Terminals:
increased safety
and serviceability

Switches & Pilot Lights

Signaling Lights

Relays & Sockets





Timers

Contactors

Terminal Blocks

Circuit Breakers

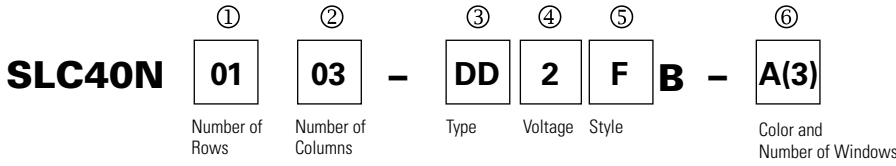
Specifications

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	—
Colors		Full voltage: 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	E12/15 Screw terminal base (2W)
Current Consumption	24V AC/DC	40mA	80mA
	12V AC/DC	80mA	160mA
	6V AC/DC	160mA	330mA
Available Window Sizes		<p> "F" 40x40mm "H" 40x80mm "L" 40x120mm "V" 80x40mm "G" 80x80mm </p>	
Insulation Resistance		100MW minimum (with 500V DC megger), between live and dead parts	
Degree of Protection		IP20 (for indoor use only), Type 1	
Dielectric Strength		Full voltage: 2,000V AC direct Adaptor/transformer 2,500V AC (1 minute)	
Operating Temperature		-20° to +40°C; (45-85% relative humidity)	
Material of Marking Plate and Color Screen		Polycarbonate	
Termination		X1 and X2 terminals: M3.5 screw with a captive wire clamp washer (Check terminal: M3 screw on applicable models)	
Maximum Size		Full voltage: 7 rows, 15 columns (105 windows) Others: 50 windows maximum	
Recommended Wire Size		22-14 AWG x2 (2mm ² x 2)	
Approvals		<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  Cert. No. B970213332375 </div> <div style="text-align: center;">  UL Recognized File No. E68961 </div> <div style="text-align: center;">  ABS American Bureau of Shipping </div> <div style="text-align: center;">  CSA Certified File No. LR48366 </div> </div>	



Part Numbers (assembled)

Part Number Guide



Part Numbers: Assembled Parts

Description		Code	Remark
① Number of Rows		01, 02, 03, 04, 05, 06, 07	7 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	15 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	DE 6V, 12V, 18V, 24V, 30V
		Full voltage with check terminal	DEM 6V, 12V, 18V, 24V, 30V
Transformer		TE 120V, 240V	
④ Voltage	6V AC/DC	6	Type DD, DE, or DEM
	12V AC/DC	1	Type DD, DE or DEM
	18V AC/DC	8	Type DE or DEM
	24V AC/DC	2	Type DD, DHM, DW, DE, or DEM
	30V AC/DC	3	Type DE or DEM
	120V AC	12	Type TD or TE
	240V AC	24	Type TD or TE
	110V DC	1	Type CD
	No lamp	99	Type DE or DEM
⑤ Style	Square	F	40x40mm
	Horizontal rectangle	H	40x80mm
	Large horizontal rectangle	L	40x120mm
	Vertical rectangle	V	80x40mm
	Large square	G	80x80mm
	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 the 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).

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

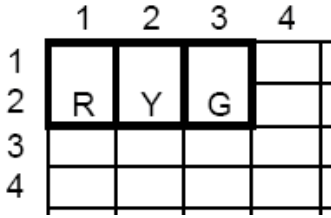
Terminal Blocks

Circuit Breakers

How to complete SLC40N Series annunciator order form:

1. Draw the layout of SLC40N annunciator in the Order Form as per customer requirements. Define the boundaries of each window (F, V, H or L 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.

Example 1



2. Count number of rows and columns. Eg: Example 1 has 02 rows and 03 columns.

SLC40N-0203

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

SLC40N-0203-DD

4. Determine the voltage code. Eg: "2" for 24V AC/DC, as in Example 1.

SLC40N-0203-DD2

5. Determine window style. Eg: "V" style windows as shown in Example 1.

SLC40N-0203-DD2VB*

*B denotes black frame.

6. Count the number of different colored windows. Eg: Example 1 has 1 Red V-style (80mmx40mm) window, 1 Yellow V-style window and 1 Green V-style window. Therefore to complete the part number for example 1, you would illustrate this by: R(1)Y(1)G(1)

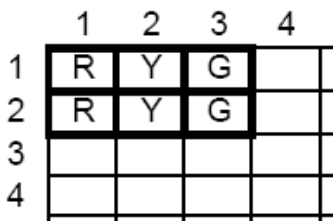
SLC40N-0203-DD2VB-R(1)Y(1)G(1)

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 examples on page 745 and send us your engraving information. If you have any questions please contact IDEC Technical Support.

Here are two more examples of your order form and the subsequent SLC40N layout you will receive.

Example 2

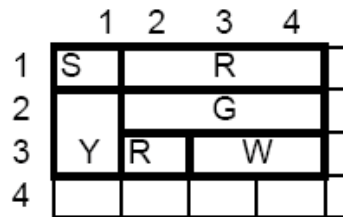
Rows=02; Columns= 03; F Style Windows (40x40mm); LED Full Voltage 24V AC/DC Illumination. Part number **SLC40N-0203-DD2FB-R(2)Y(2)G(2)**.



Example 3

Rows=3; Columns= 4; M = combination of various window styles (F, H, L and V Style); LED Full Voltage 24V AC/DC Illumination.

Part number **SLC40N-0304-DD2MB-R(1)Y(1)G(1)W(1)S(1)**.



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
	Overall Panel Width Dimension →		2.205" (56mm)	3.780" (96mm)	5.354" (136mm)	6.929" (176mm)	8.504" (216mm)	10.079" (256mm)	11.654" (296mm)	13.228" (336mm)	14.804" (376mm)	16.378" (416mm)	17.953" (456mm)	19.528" (496mm)	21.102" (536mm)	22.677" (576mm)	24.252" (616mm)
	Overall Height ↓	Cut-out Ht ↓	Cut-out Wd ↓	1.772" (45mm)	3.346" (85mm)	4.921" (125mm)	6.496" (165mm)	8.071" (205mm)	9.646" (245mm)	11.220" (285mm)	12.795" (325mm)	14.370" (365mm)	15.945" (405mm)	17.520" (445mm)	19.094" (485mm)	20.669" (525mm)	22.244" (565mm)
1	2.205" (56mm)	1.772" (45mm)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	3.780" (96mm)	3.346" (85mm)	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30
3	5.354" (136mm)	4.921" (125mm)	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45
4	6.929" (176mm)	6.496" (165mm)	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60
5	8.504" (216mm)	8.071" (205mm)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
6	10.079" (256mm)	9.646" (245mm)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90
7	11.654" (296mm)	11.220" (285mm)	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105

Total Number of Windows (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): 5.354" x 10.079" (136 x 256mm)
 Panel cut-out (H x W): 4.921" x 9.646" (125 x 245mm)
 Tolerance: +0.039" (1mm), -0
- See page 739 for part numbering information.

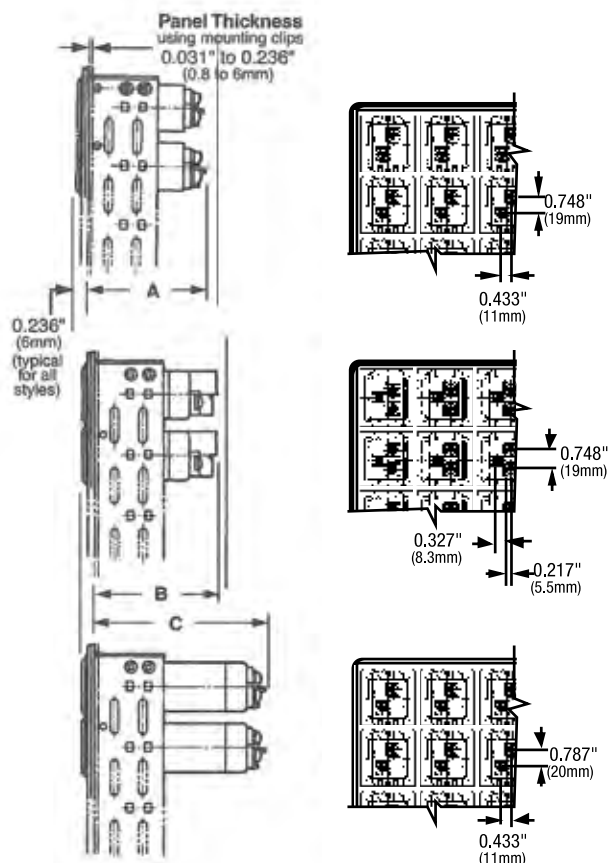
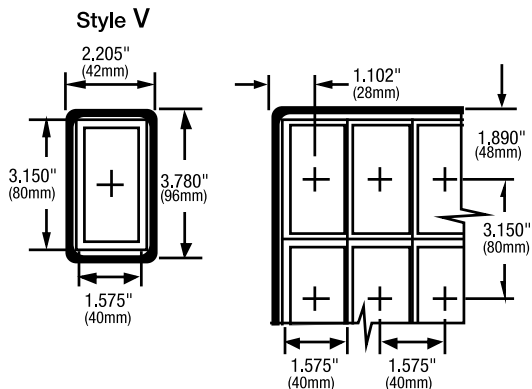
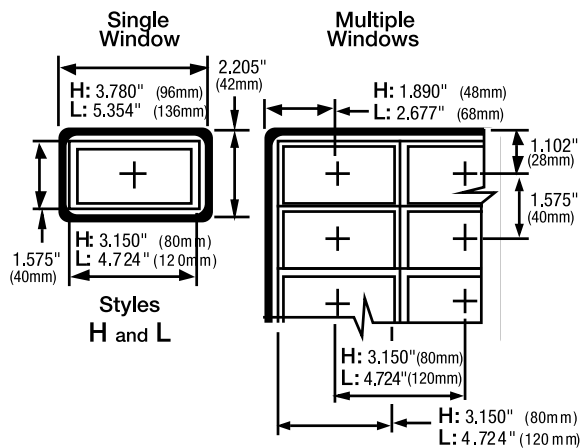
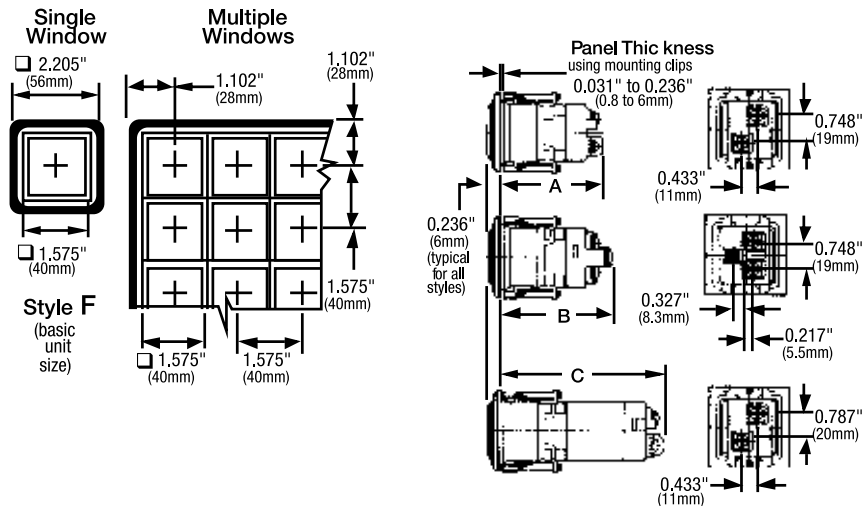
Window Dimensions

Window Style	Style F	Style H	Style L	Style V
Appearance				
Window Size	Illumination Face (H x W)	1.575" x 1.575" (40 x 40mm)	1.575" x 3.150" (40 x 80mm)	1.575" x 4.724" (40 x 120mm)
	Lens (H x W)	1.457" x 1.457" (37 x 37mm)	1.457" x 3.031" (37 x 77mm)	1.457" x 4.606" (37 x 117mm)
	Marking Plate (H x W x t)	1.409" x 1.409" x 0.04" (35.8 x 35.8 x 1.0mm)	1.409" x 2.984" x 0.04" (35.8 x 75.8 x 1.0mm)	1.409" x 4.559" x 0.04" (35.8 x 115.8 x 1.0mm)
	Color Screen (H x W x t)	1.409" x 1.409" x 0.04" (35.8 x 35.8 x 1.0mm)	1.409" x 2.984" x 0.04" (35.8 x 75.8 x 1.0mm)	1.409" x 4.559" x 0.04" (35.8 x 115.8 x 1.0mm)
	Engraving Area	1.339" x 1.339" (34 x 34mm)	1.339" x 2.913" (34 x 55mm)	1.339" x 4.488" (34 x 85mm)

Dimensions, continued

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

	Description	LED	Incandescent
A	Full voltage	2.618" (66.5mm)	2.539" (64.5mm)
B	Full voltage LED 2-color alternate	2.874" (73mm)	—
C	Transformer	3.327" (84.5mm)	—
	DC-DC converter	3.327" (84.5mm)	—
	Transformer	—	2.854" (72.5mm)
	Terminals (X1, X2)	M3.5 screw	
	Check terminal (C)	M3 screw	
	Same terminals, adjacent windows	1.575" (40mm) centers	



Switches & Pilot Lights

Signaling Lights

Relays & Sockets

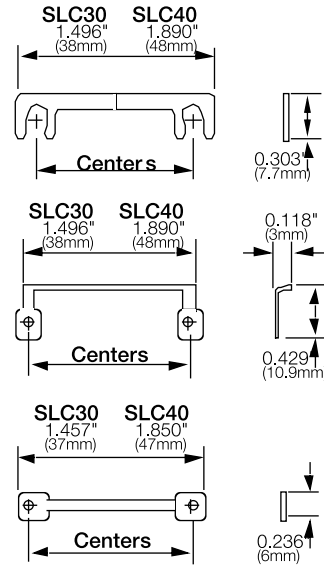
Timers

Contactors

Terminal Blocks

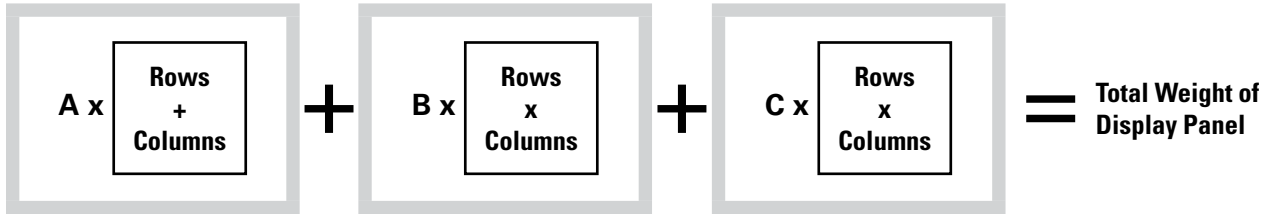
Circuit Breakers

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)	AC Adapter (LED)	DC-DC Converter (LED only)
		C Lamp/LED Weight (includes lamp/LED)			
0.93oz (30g)	0.93oz (30g)	0.93oz (30g)	2.98oz (96g)		1.92oz (62g)

2. Weights are approximate.






Example:
 SLC40N-0304-DD2FB
 Total weight = A (rows + columns) + B (rows x columns) + C (rows x columns)
 Total weight = 0.93 (3+4) + 0.93 (3x4) + 0.93 (3x4) = 28.83 oz

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

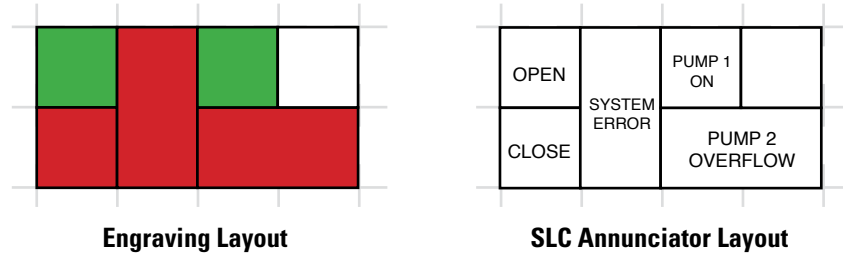
5/32" size

Engraving Example

Engraving information can be provided in two ways:

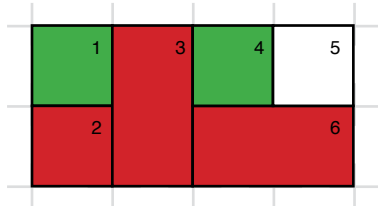
Method 1

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.



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.

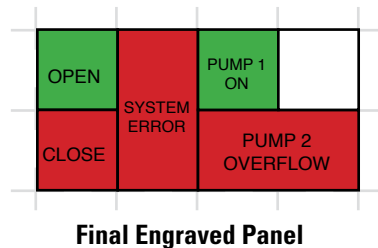


Keeping engraving window type, character size, maximum character per line and maximum number of lines in perspective, create a table (see Engraving Table Example shown below). Please attach the Table along with SLC annunciator layout and send it to IDEC Customer Service for processing.

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:



Accessories

Description	Application	Part No.	Remarks
Lenses	SLC30 incandescent, LED	F	SLC-3LF-(UL)
		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)
		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)
		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
		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



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Signaling Lights

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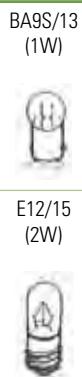

Relays & Sockets

Timers


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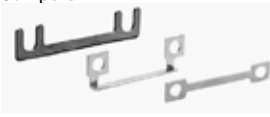


Terminal Blocks

Circuit Breakers

Description	Application	Part No.	Remarks
Incandescent Lamps 	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
LED Lamps 	SLC30 LED only 1-color 6V AC/DC 12V AC/DC 24V AC/DC	SLDN-36F-*	Specify color code in place of asterisk (*): A = Amber G = Green R = Red S = Blue (available in 24V version only) W = White Y = Yellow
		SLDN-31F-*	
		SLDN-32F-*	
	SLC30 LED only 2-color: Red/Green 24V AC/DC	SLDN-32FW-RG	
		SLC40 LED only 1-color 6V AC/DC 12V AC/DC 24V AC/DC	
	SLCN-1ET-*		
	SLCN-2ET-*		
	SLC40 LED only 2-color: Red/Green 24V AC/DC	SLCN-2ETW-RG	

Replacement Parts

Full Voltage Models		Description	Type	Part Number
SLC30 	Incandescent	Incandescent	DS	SLC-3DS
		Standard LED	DD	SLDN-3DH
	LED	LED w/ Check Terminal	DHM	SLD-3DHM
		Dual Color LED	DW	SLD-3DW
SLC 40 	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
SLC30 	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
SLC40 	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	Total number of jumpers equals total number of style F window equivalents
		X2 terminal (ring)	SLCN-JP34	
		C terminal (ring)	SLC-JP32	
	SLC40	X1 terminal (spade)	SLC-JP40	
		X2 terminal (ring)	SLCN-JP44	
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

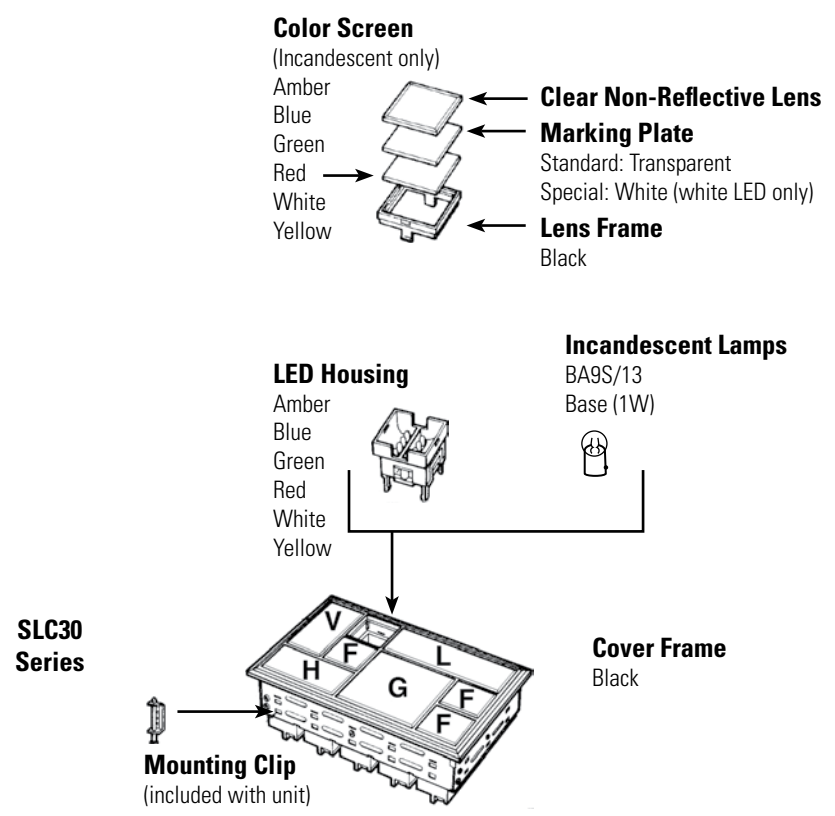
Relays & Sockets

Timers

Contactors

Terminal Blocks

Circuit Breakers



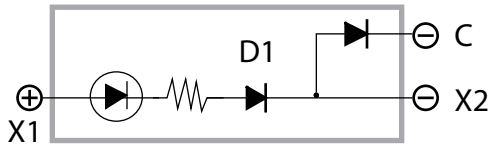
SLC Series Installation Instructions

Installation Notes

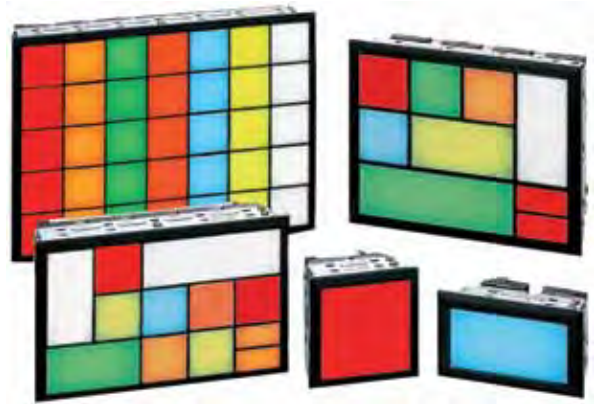
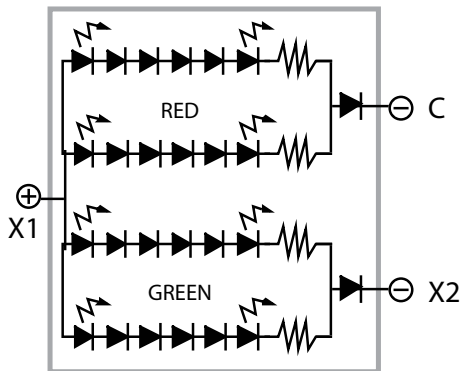
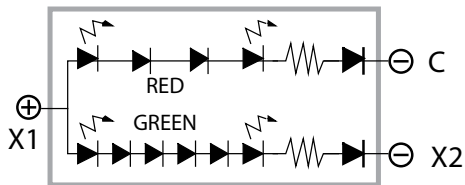
1. Since lamps generate heat, it is recommended that ventilation be provided for cooling when more than ten lamps are lit continuously.
2. A lower number of windows is specified for multiple transformer and DC-DC converter units (50 maximum, instead of 200 as for full voltage only). This is done to avoid 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)

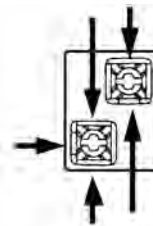
For full voltage (1- and 2-color) and DC-DC converter LED units, terminal X1 is positive and terminal X2 is negative. Make sure to observe polarity when wiring.



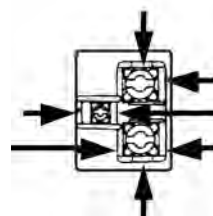
For 2-color alternate units, terminal X1 is positive, and terminals X2 and C (check terminal) are negative.



SLC30/SLC40 Full Voltage DC-DC Converter



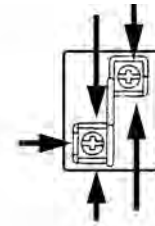
SLC30/SLC40 Full Voltage with Check Terminal



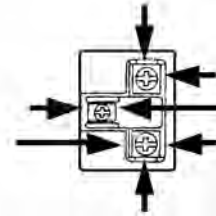
SLC30



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.

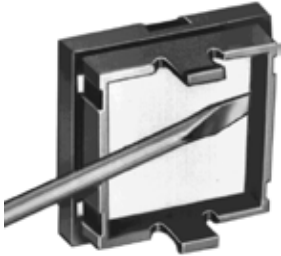


Figure 3: SLC30



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.

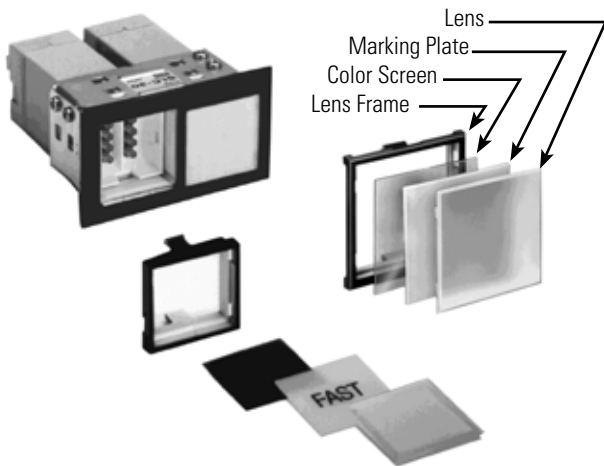


Figure 5: SLC30 and SLC40

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.

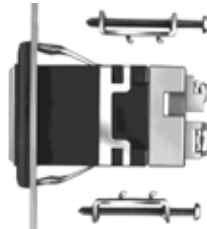


Figure 8: SLC40

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.

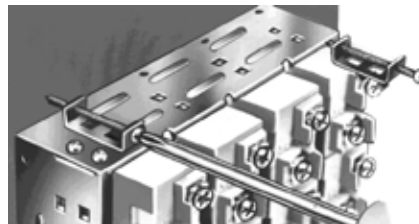



Figure 9: Multiple Combination

SLC Series Installation Instructions, continued

Number of Mounting Clips Included

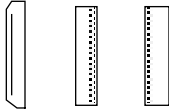
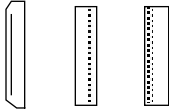
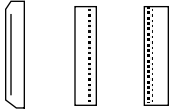
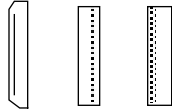
Columns	1 or 2		3 to 8		9 to 15	16 to 20 *
Rows	Full Voltage	Others	Full Voltage	Others	All Types	All Types
1 or 2	2		4		6	8
3 to 6	4	6	6	8	8	10
7 to 10 (SLC30 only)	6	8	8		10	12

 * 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>Matte Surface (non-shiny)</p>  <p>Light Source</p> <p>Lens Color Marking Screen: Plate: Any Color White</p>		<p>Matte Surface (non-shiny)</p>  <p>Light Source</p> <p>Lens Marking Color Plate: Screen: White Any Color</p>		<p>Matte Surface (non-shiny)</p>  <p>Light Source</p> <p>Lens Marking Color Plate: Screen: White White</p>		<p>Matte Surface (non-shiny)</p>  <p>Light Source (LED only)</p> <p>Lens Marking Color Plate: Screen: White White</p>	