

### **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 98mm)



Style V (60mm x 30mm



Style G (60mm x 60mm)



Staggered terminals: increased safety and serviceability

SLC30 Series: 1.18" (30mm)

# IDEC Display Lights

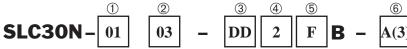
Light Source	ce	LED	Incandescent				
	Full Voltage	6, 12, 24V AC/DC	6, 12, 18, 24, 30V AC/DC				
Nominal Voltages	Transformer	120, 240V AC	120, 240V AC				
Tomageo	DC-DC Conv.	110V DC	110V DC				
Colors	1	Amber, Green, Red, Yellow, Blue, White					
Lamp Type		Surface (Chip type) LED cluster (20mA approximately)	BA9S/13 (T3-1/4) bayonet base (1W)				
Available Window Sizes "F" "H" "L" "Y" "G  30x30mm 30x60mm 1 30x90mm 60x30mm							
Insulation	Resistance	More than 100 M $\Omega$ by a 500V DC megger					
Degree of	Protection	IP20 (for indoor use only), NEMA 1					
Dielectric	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)					
Operating Material or and Color S	f Marking Plate Screen	Polycarbonate					
Terminatio	on	M3.5 screw with captive sems plate (Check terminals: M3 screw with captive sems plate or a	pplicable units)				
Maximum	Size	Full voltage 10 rows, 20 columns (200 windows) Transformer and DC/DC converter (50 windows)					
Recommer	nded Wire Size	22-14 AWG x2 (2mm <sup>2</sup> x 2)					
Approvals			ican au of				



### Part Numbers (Assembled)

### **Part Number Guide**

Display Lights



Number of Rows

Number of Columns

Type Voltage Style

11(0)

Color (number of windows)

	Description		Code	Remark		
① Number of Rows	S		01, 02, 03, 04, 05, 06, 07, 08, 09, 10	10 row maximum (always expressed in terms of "F" size windows)		
② Number of Colum	nns		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)		
		Full voltage	DD	6V, 12V, 24V		
		Full voltage with check terminal	DHM	24V only		
③ Туре	LED	Full voltage 2 color (Red/Green)	DW	24V only		
<b>© турс</b>		Transformer	TD	120V, 240V AC		
		DC-DC converter	CD	110V DC only		
	Incandescent	Full voltage	DS	6V, 12V, 18V, 24V, 30V		
	incandescent	Transformer	TS	120V, 240V		
	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		
4 Voltage	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		
	Square		F	30x30mm		
	Horizontal recta	ingle	Н	30x60mm		
	Horizontal recta	angle with barrier	H2	JUNE		
⑤ Style	Large horizonta	l rectangle	L	30x90mm		
ં <b>ઇ</b> પ્યુપ્ત	Vertical rectang	gle	V	60x30mm		
	Large square		G	60x60mm		
	Combination		M	Fill out order form on next page		
	Amber		A			
	Green		G			
6 Color	Red		R	After each color, specify the number of windows		
(number of windows)	Blue		S (LED version: 24V only)	Example A(3), G(2), R(1)		
•	White		W			
	Yellow		Υ	1		



- 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).

**Display Lights** 

### **Engraving Information**

### **Part Numbers: Engraving Plates**

Window Type	Part No.	Character Size	Maximum Characters per Line	Maximum Lines
		7/32	7	3
F		3/16	7	3
30x30mm	SLC-3PF	5/32	9	4
		9/64	9	4
		1/8	10	4
Н		5/16	8	2
30x60mm	SLC-3PH	7/32	13	3
concernm		5/32	17	4
L		5/16	14	2
30x90mm	SLC-3PL	7/32	20	3
COXCOMM		5/32	26	4
V		5/16	4	4
60x30mm	SLC-3PV	7/32	6	6
ООХООППП		5/32	8	8
G		5/16	9	4
60x60mm	SLC-3PG	7/32	12	6
		5/32	16	8

**Engraving Size Samples** 

5/16" size

7/32" size

3/16" size

5/32" size

9/64" size

1/8" size

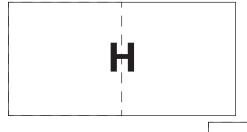


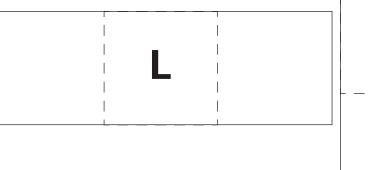
Display Lights

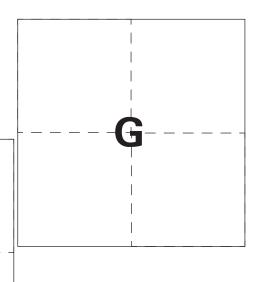
 $Engraving\ plates\ are\ supplied\ with\ all\ assembled\ SLC\ units.$ 

### **Engraving Templates**

F







### **Dimensions**

### **Panel Cut-Out Dimensions**

	No. of Colu	ımns —	$\rightarrow$	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
lows	Overall F Dimensi		Vidth	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)
← No. of Rows	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)	23.819" (605mm)
1	1.654" (42mm)	1.378" (35mm	1)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
2	2.835" (72mm)	2.559" (65mm	1)	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	1)	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" (125mr	m)	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" (155mr	m)	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" (185mr	m)	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" (215mr	m)	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" (245mr	m)	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 (275mr		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' (305mr		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—hasic unit size)																		

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

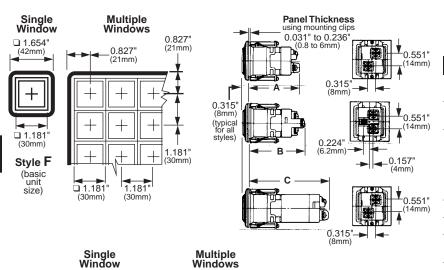


- 1. The number of rows and columns refers to styles equivalent to style F (basic unit size).
  - For styles H, L, V, and G, convert into style F (basic unit size) equivalents.
    - Style H: 1 window high (1 row) x 2 windows wide (2 columns)
    - Style V: 2 windows high (2 rows) x 1 window wide (1 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:  $18 \text{ windows} = 3 \text{ windows high } (3 \text{ rows}) \times 6 \text{ windows wide } (6 \text{ columns})$
  - 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
- 2. For part numbering information, see page C-16.

### **Window Dimensions**

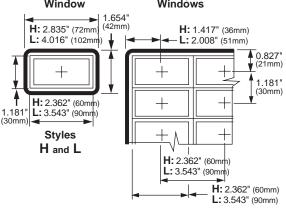
Windo	ow Style	Style F	Style H	Style L	Style V	Style G
Appearance						
	Illumination Face (H x W)	1.181" x 1.181" (30 x 30mm)	1.181" x 2.362" (30 x 60mm)	1.181" x 3.543" (30 x 90mm)	2.362" x 1.181" (60 x 30mm)	2.362" x 2.362" (60 x 60mm)
	Lens (H x W)	1.102" x 1.102" (28 x 28mm)	1.102" x 2.283" (28 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)
Widow Size	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)

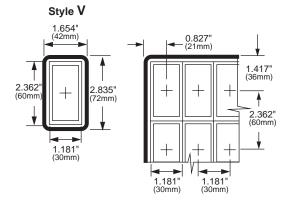
### Dimensions, continued

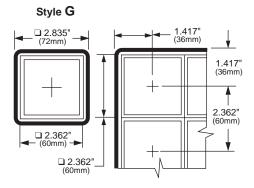


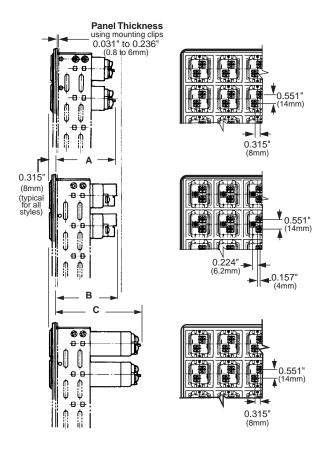
Styles F, H, L, V, G: Single Window (right) Multiple Windows (below)

	Description	LED	Incandescent		
Α	Full voltage	2.146" (54.5mm)	2.264" (57.5mm)		
В	Full voltage LED 2-color alternate	2.343" (59.5mm)	_		
	AC adaptor	3.228" (82mm)	_		
С	DC-DC converter	3.228" (82mm)	_		
	Transformer	_	3.228" (82mm)		
Ter	minals (X1, X2)	M3.5 screw			
Check terminal (C)		M3 screw			
	ne terminals, acent windows	1.181" (30mm) centers			









### Dimensions, continued

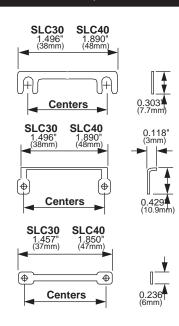
### **JUMPERS**

Thickness = 0.020" (0.5mm)

Centers:

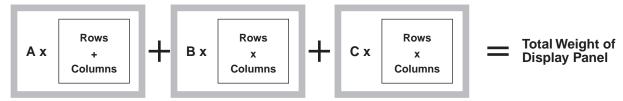
SLC30 = 1.181" (30mm) SLC40 = 1.575" (40mm)

± 0.004" (0.1mm)



### Instructions

### **Estimating Weights**





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

		Full Voltage	Transformer (incandescent) AC Adapter (LED)	DC-DC Converter (LED only)
A Frame Weight	B Housing Weight		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.

### **SLC Series Accessories**

	Description	Applicat	ion	Part No.	Remarks			
			F	SLC-3LF-(UL)				
		SLC30	H and V	SLC-3LH-(UL)				
Lancas		incandescent, LED	L	SLC-3LL-(UL)	A lens is included with each window on assembled units			
Lenses			G	SLC-3LG-(UL)				
		SLC40	SLC40 F SLC-4LF-(UL)					
		incandescent, LED	H and V	SLC-4LH-(UL)				
	Lens		F	SLC-3PF-*-(UL)	Specify color code in place of asterisk ( * ):			
		SLC30	H and V	SLC-3PH-*-(UL)	A = Amber	A color screen and marking		
Color	Color Screen	incandescent	L	SLC-3PL-*-(UL)	C = Transparent G = Green (incandescent)	plate are		
Screens	Marking Plate		G	SLC-3PG-*-(UL)	R = Red S = Blue	included with each window		
	Warking Flate	SLC40	F	SLC-4PF-*-(UL)	W = White Y = Yellow	of assembled incandescent		
	Lens Frame	incandescent	H and V	SLC-4PH-*-(UL)	T = TellOW	units		
			F	SLC-3PF-■-(UL)		Two marking		
		SLC30	H and V	SLC-3PH-■-(UL)		plates are included with each window of assembled		
Marking		incandescent, LED	L	SLC-3PL-■-(UL)	Specify color code in place of square (■): C = Transparent (LED)			
Plates			G	SLC-3PG-■-(UL)	W = White (incandescent) WL = White (LED)	LED units; LED units do not use		
		SLC40	F	SLC-4PF-■-(UL)		color screens		
		incandescent, LED	H and V	SLC-4PH-■-(UL)				
			F	SLC-3WF-B				
			Н	SLC-3WH-B				
		SLC30 incandescent only	V	SLC-3WV-B				
		,	L	SLC-3WL-B				
			G	SLC-3WG-B				
			F	SLC-3WF-BL				
			Н	SLC-3WH-BL				
Lens Frames	4 4	SLC30 LED only	V	SLC-3WV-BL	A lens frame is included with each window assembled units	on		
		,	L	SLC-3WL-BL				
	20000		G	SLC-3WG-BL				
			F	SLC-4WF-B				
		SLC40 incandescent only	Н	SLC-4WH-B				
		,	V	SLC-4WV-B				
		SLC40	F	SLC-4WF-BL				
		LED only	Н	SLC-4WH-BL				

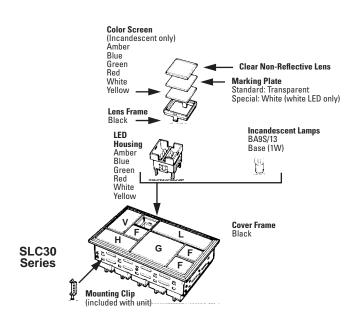
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L	U	

	Description	Applicat	ion	Part No.	Remarks		
				IS-6	6.3V, 1W; operating voltage: 5 to 6V AC/DC		
	BA9S/13 (1W)	SLC30 incandescent only	BA9S/13	IS-12	12V, 1W; operating voltage: 9 to 12V AC/DC		
	(E)		lamp base	IS-24	24V, 1W; operating voltage: 18 to 24V AC/DC	Unless "no lamp" (99) is specified, a lamp is	
Incan-	2002			IS-30	30V, 1W; operating voltage: 24 to 30V AC /DC	included with each style F win-	
descent Lamps	E12/15			LE-6	6.3V, 2W; operating voltage: 5 to 6V AC/DC	dow equivalent One part number	
	(2W)	SLC40 incandescent only	E12/15 lamp base	LE-8	18V, 2W; operating voltage: 12 to 18V AC/DC	is specified for one replacement bulb	
				LE-2	24V, 2W; operating voltage: 18 to 24V AC/DC		
				LE-3	30V, 2W; operating voltage: 24 to 30V AC/DC		
		SLC30	6V AC/DC	SLC-6SP*			
		LED only	12V AC/DC	SLC-1SP*	1		
		1-color	24V AC/DC	SLC-2SP*			
LED	10500	SLC30 LED only 2-color: Red/Green	24V AC/DC	SLC-2SP-R/G	Specify color code in place of asterisk (*): A = Amber G = Green		
Lamps	W 0	SLC40	6V AC/DC	SLC-6EP*	R = Red S = Blue (available in 24V version only)		
	- Bron	LED only	12V AC/DC	SLC-1EP*	W = White Y = Yellow		
		1-color	24V AC/DC	SLC-2EP*	1		
		SLC40 LED only 2-color: Red/Green	24V AC/DC	SLC-2EP-R/G			

**Replacement Parts** 

Full Voltage Models		Description	Туре	Part Number
SLC30		Incandescent	DS	SLC-3DS
Name of		Standard LED	DD	SLC-3DH
4100	LED	LED w/ Check Terminal	DHM	SLD-3DHM
100		Dual Color LED	DW	SLD-3DW
SLC 40		Incandescent	DE	SLC-4DE
(4)		Incandescent w/ Check Terminal	DEM	SLC-4DEM
	Incandescent	Standard LED	DD	SLC-4DH
		LED w/ Check Terminal	DHM	SLC-4DHM
		Dual Color LED	DW	SLC-4DHW
Step Down Models		Description	Туре	Part Number
SLC30	Incandescent	Incandescent xfrmr, 120V AC	TS12	SLC-3TS120
-	incandescent	Incandescent xfrmr, 240V AC	TS24	SLC-3TS240
THE RES		LED xfrmr, 120V AC	TD12	SLC-3TP120
	LED	LED xfrmr, 240V AC	TD24	SLC-3TP240
		LED DC-DC converter, 110V DC	CD1	SLC-3CP1
SLC40	Incandescent	Incandescent xfrmr, 120V AC	TE12	SLC-4TE12
	meanuescent	Incandescent xfrmr, 240V AC	TE24	SLC-4TE240
		LED xfrmr, 120V AC	TD12	SLC-4TP120
(4)	LED	LED xfrmr, 240V AC	TD24	SLC-4TP240
		LED DC-DC converter, 110V DC	CD1	SLC-4CP1

Description		Application	Part No.	Remarks
Lamp Holder Tool	SLC30 ar	nd 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
		X1 terminal (spade)	SLC-JP30	
Jumpers	SLC30	X2 terminal (ring)	SLC-JP33	T
11_11		C terminal (ring)	SLC-JP32	Total number of jumpers equals total number of style F window equivalents
[] _ L O		X1 terminal (spade)	SLC-JP40	
D	SLC40	X2 terminal (ring)	SLC-JP41	
		C terminal (ring)	SLC-JP42	
Mounting Clip	All SLCs		SLC-3K1	Mounting clips are included with the panel (see page C–43 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): $0.197^{\circ}$ x $393.701^{\circ}$ (5 x $10,000$ mm)
Finger-Safe	Use with CD, DS a	SLC30 types DD, TD, nd TS	SLC30-VL3	
Terminal Covers	Terminal Covers  Use with all SLC30 types D and DW		SLC30-VL6	
	Use with CD, DE a	SLC40 types DD, TD, nd TE	HW-VL3	
	Use with SLC40 types DHM, DW, and DEM		SLC40-VL6	



### Display Lights **IIDEC**



### General Information: Ordering SLC Display Lights

When ordering a custom-built combination of SLC display lights for a multiple panel, copy the order form provided. This is the only order form accepted.

#### **Using the Order Form**

**Part No.:** Enter the part number using the part numbering guides.

Quantity: Enter the number of identical completely assembled panels required.

Window Count: Convert all window styles to style F (basic unit size) equivalents:

Style F = 1 window **Style H** = 2 windows (1 row high x 2 columns wide) **Style L** = 3 windows (1 row high x 3 columns wide) **Style V** = 2 windows

(2 rows high x 1 column wide)

\*Style **G** = 4 windows (2 rows high x 2 columns wide)



1. Style G is available for the SLC30 series only.

### **Maximum Windows for Multiple Combination Panels**

For style code "M," it is necessary to use the order form. Do not exceed maximum panel sizes:

SLC30: 200 windows (full voltage) 50 windows (other type codes) 105 windows (full voltage)

50 windows (other type codes)

**Series:** SLC30 1.181" (30mm) or SLC40 1.575" (40mm) Window style(s): Style F, H, L, or V for SLC30 or SLC40 Style G for SLC30 only

Style M for a multiple combination panel Row count: Convert all windows to style F (basic unit size using infor-

mation in the left column of this page. **Column count:** Convert windows to style F (basic unit size) using infor-

mation in the left column of this page. Illumination type: LED or incandescent.

Input mode: Full voltage, transformer, or DC-DC conversion for LED; full voltage or transformer for incandescent.

**Operating voltage:** See preceding page to select voltages compatible with the input mode required.

Window colors: Specify the number of windows in each color.

**Engraving:** Clearly mark the engravings for each window desired on the grid of the order form clearly. If there is not enough space, number each window and use a separate sheet to write the engravings for each window number. Also note "no engraving."

Using the grid on the order form (following page), show the actual size and placement of all desired windows.



### To Specify a Multiple Combination

- Draw a heavy outline on corresponding gray lines to show the overall panel size.
- Darken the appropriate gray lines to show the outlines of the various window style(s) required.
- For each window, specify color and clearly identify the engraving



2. If there is not enough space on the grid to show the engraving clearly, number every required window, and write the engraving on a separate sheet of paper. Make sure to write the window number which corresponds to the engraving, and also make sure to note "no engraving" as required.

### **Determining SLC Pricing**

- 1. The initial, 2-window price is determined based on series, type, and style. This 2-window price includes framing and assembly. When ordering a single window, the 2-window price is also the minimum price, including window, framing, and assembly.
- Convert all window styles required into style F (basic unit size) equivalents using the information in the left column of this page.
- Subtract "2" from the total number of style F equivalent windows determined in step 2. The result is the number of additional windows.
- 4. Multiply the number of additional windows determined in step 3 by the additional window price.
- 5. Determine the quantity of windows with engravings. Do not use the style F equivalents; use the actual window style(s) required.



- 3. The pricing referred to above can be obtained from any authorized IDEC representative or distributor.
- 4. When determining window pricing, always convert every window size required to the style F equivalent (basic unit size).

### **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, AC adapter, 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 sup-
- 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.

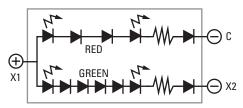
LED Operating Voltage Range: 24V DC ± 10%

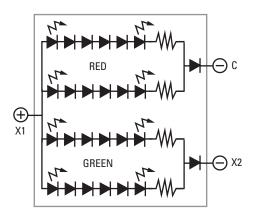
### **Terminal Arrangements (LED units)**

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.

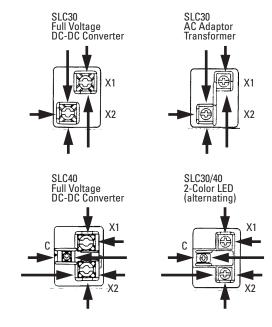


For 2-color alternate units, terminal X1 is positive, and terminals X2 and C (check terminal) are negative.















### **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*.

#### 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*.

### 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*.

#### **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*.

**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 1: SLC40

Figure 2: SLC30 and SLC40



Figure 3: SLC30



Figure 4: SLC40

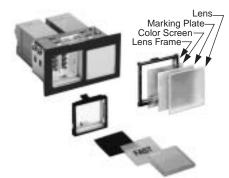


Figure 5: SLC30 and SLC40



Figure 6: Remove LED



Figure 7: Install LED



Figure 8: Single Unit



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.

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

Assembly Order for Lamp On/Lamp Off Colors

Lamp On: Amber, Blu	ıe, Green, Red, Yellow	Lamp On: White	Lamp On: Red/Green  Lamp Off: White	
Lamp Off: Desired Color	Lamp Off: White	Lamp Off: White		
Matte Surface (non-shiny)  Light Source  Color Marking Screen: Flate: Any Color White	Matte Surface (non-shiny)  Light Source  Lens Marking Color Plate: Screen: White Any Color	Matte Surface (non-shiny)  Light Source  Lens Marking Color Plate: Screen: White White	Matte Surface (non-shiny)  Light Source (LED only Plate: Screen: White White	