

**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

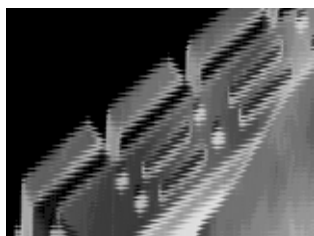
**ABS**  
American  
Bureau of  
Shipping



UL Recognized  
File No. E68961



CSA Certified  
File No.  
LR48366



**Extended Windows**



**Style F**  
(40mm x 40mm)



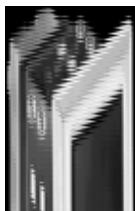
**Style G**  
(80mm x 80mm)



**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

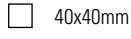
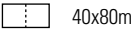


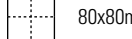
Contactors

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	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>"F"</p>  <p>40x40mm</p> </div> <div style="text-align: center;"> <p>"H"</p>  <p>40x80mm</p> </div> <div style="text-align: center;"> <p>"L"</p>  <p>40x120mm</p> </div> <div style="text-align: center;"> <p>"V"</p>  <p>80x40mm</p> </div> <div style="text-align: center;"> <p>"G"</p>  <p>80x80mm</p> </div> </div>
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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 <sup>2</sup> x 2)

Approvals	 Cert. No. B970213332375	 UL Recognized File No. E68961
	 American Bureau of Shipping	 CSA Certified File No. LR48366



Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

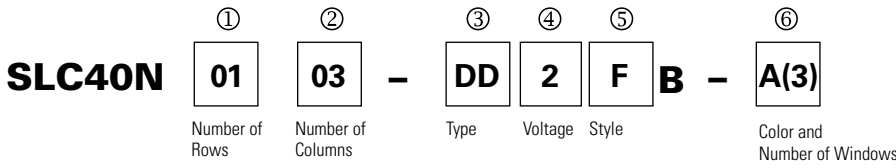
Contactors

Terminal Blocks






Circuit Breakers

## 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

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

Contact \_\_\_\_\_

Company \_\_\_\_\_

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

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

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

**Fill in Part Number Below:**

SLC40N -     -

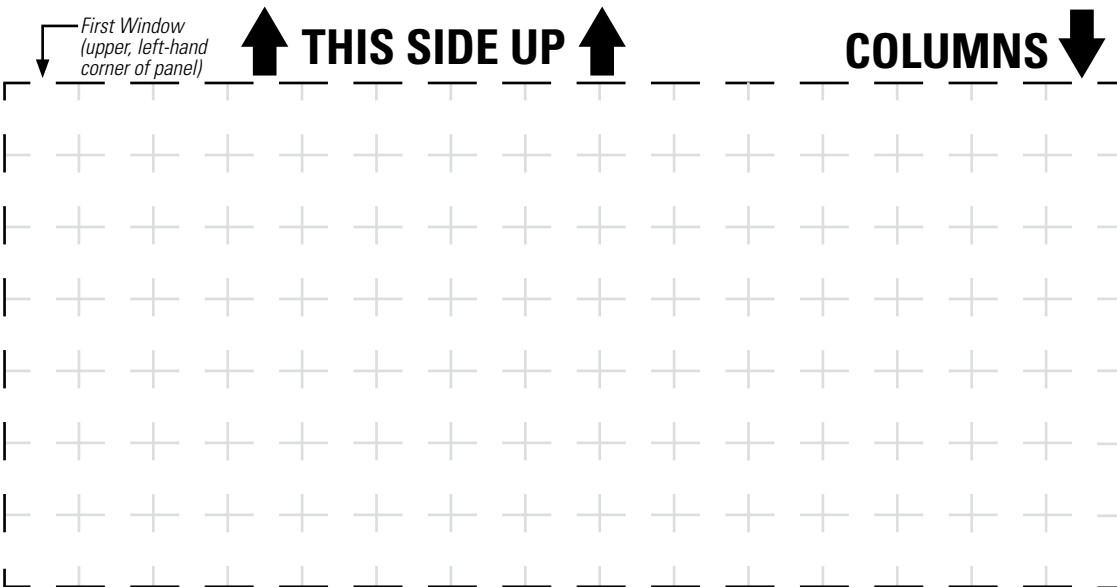
Number of Rows      Number of Columns      Type Code      Operating Voltage      Style Code

**B** - Black Frame

**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

- A**  Number of Amber
- G**  Number of Green
- R**  Number of Red
- S**  Number of Blue
- W**  Number of White
- Y**  Number of Yellow



Remarks:

Quantity \_\_\_\_\_

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

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

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

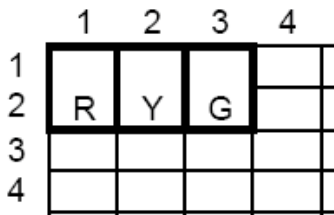
- 1. The part number guide is on the previous page.
- 2. Panel cutout dimensions are on page 712.

↑ THIS SIDE UP ↑

## 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)

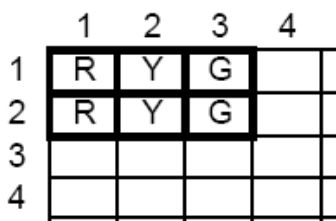
**SLC40N-0203-DD2VB-R(1)Y(1)G(1)**

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

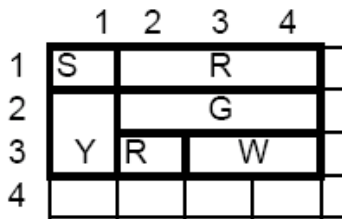
Rows=02; Columns= 03; F Style Windows (40x40mm); LED Full Voltage 24V AC/DC Illumination. Part number **SLC40N-0203-DD2FB-R(2)Y(2)G(2)**.



### 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)	3.150" x 1.575" (80 x 40mm)
	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)	3.031" x 1.457" (77 x 37mm)
	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)	2.984" x 1.409" x 0.04" (75.8 x 35.8 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)	2.984" x 1.409" x 0.04" (75.8 x 35.8 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)	2.913" x 1.339" (55 x 34mm)

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

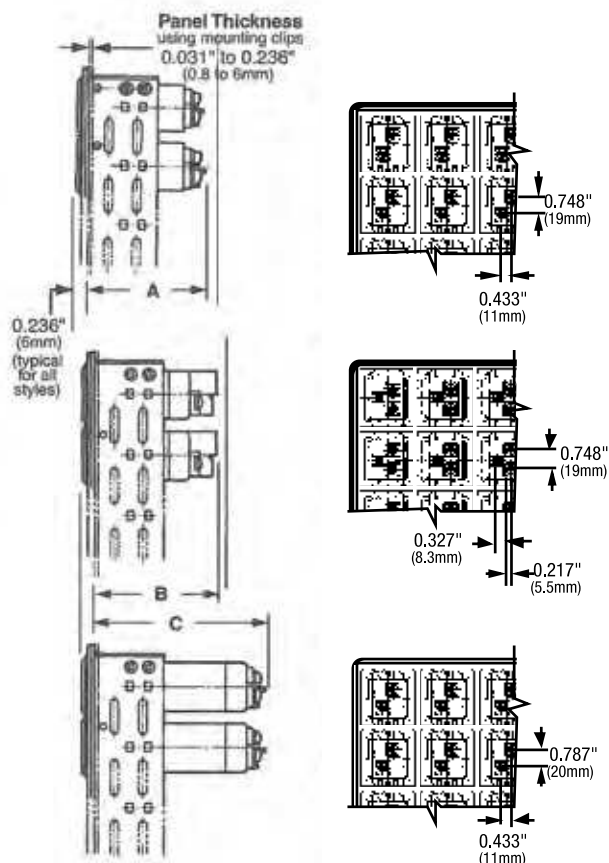
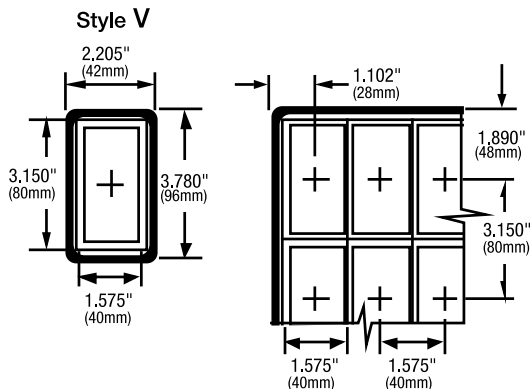
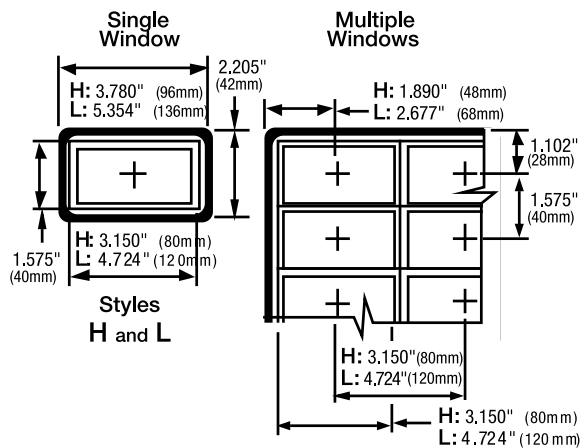
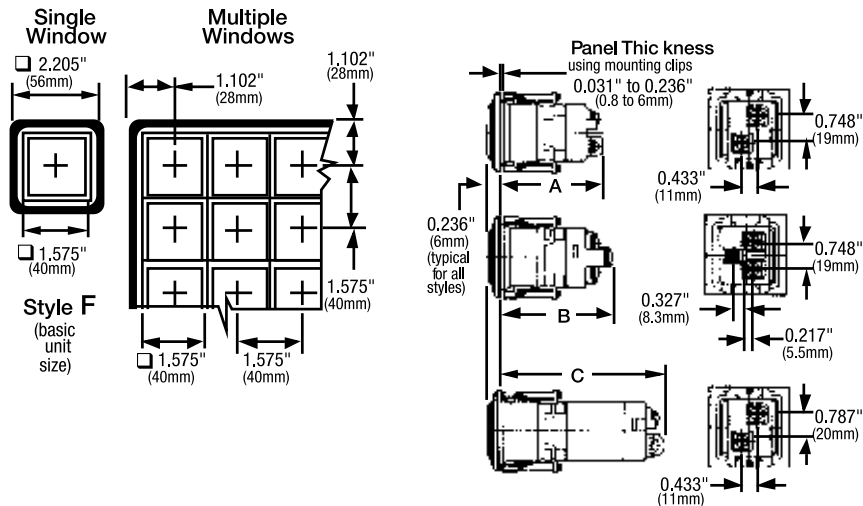
Terminal Blocks

Circuit Breakers

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

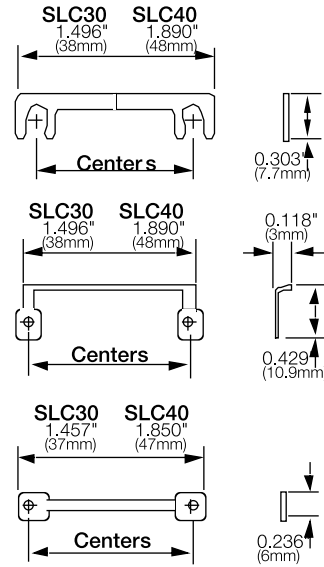
Timers

Contactors

Terminal Blocks

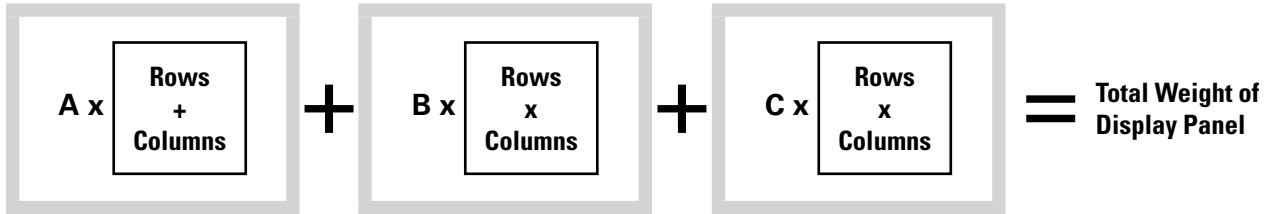
Circuit Breakers

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

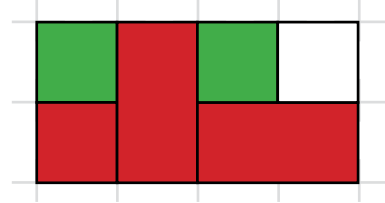
**5/32" size**

### Engraving Example

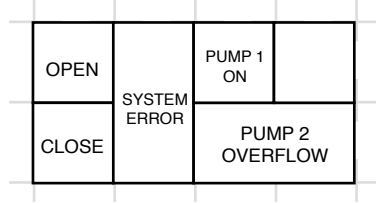
Engraving information can be provided in two ways:

#### 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.



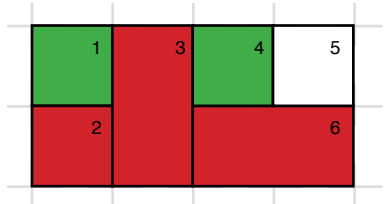
Engraving Layout



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.

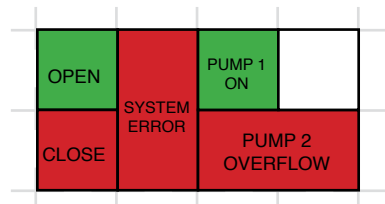


Keeping engraving window type, character size, maximum character per line and maximum number of lines in perspective, create a table (see Engraving Table Example shown below). Please attach the Table along with SLC annunciator layout and send it to IDEC Customer Service for processing.

#### Engraving Table Example

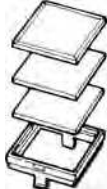


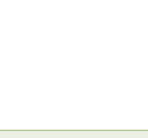
Window	Font Size	Engrave
1	7/32"	"OPEN"
2	7/32"	"CLOSE"
3	7/32"	"SYSTEM" "ERROR"
4	3/16"	"PUMP 1" "ON"
5		NO ENGRAVING
6	5/32"	"PUMP 2" "OVERFLOW"

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



Final Engraved Panel

## 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