

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



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)



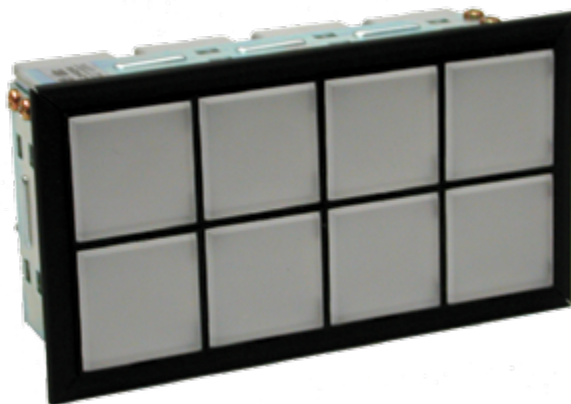
Style V
(80mm x 40mm)



Staggered Terminals:
increased safety
and serviceability

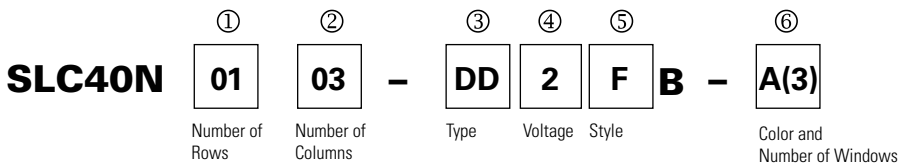
Specifications

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		"F"  40x40mm "H"  40x80mm "L"  40x120mm "V"  80x40mm "G"  80x80mm	
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 (2mm² x 2)	
Approvals		 Cert. No. B970213332375  UL Recognized File No. E68961  American Bureau of Shipping  CSA Certified File No. LR48366	



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).

Order Form

Purchase Order No. _____ Date _____ Sheet of

Fill in Part Number Below:

Contact _____
 Company _____
 Phone # _____
 Ship to _____

 City/State/Zip _____

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

Type Code Operating Voltage Style Code **B-** Black Frame
 F = One Window
 H = Two Windows Wide
 L = Three Windows Wide
 V = Two Windows High
 G = Two x Two
 M = Multiple Combination

Number of Rows Number of Columns

SLC40N —

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

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

THIS SIDE UP

COLUMNS

ROWS

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.

Basic Unit Size (style F)

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

	1	2	3	4
1				
2	R	Y	G	
3				
4				

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 820 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)**.

	1	2	3	4
1	R	Y	G	
2	R	Y	G	
3				
4				

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)**.

	1	2	3	4
1	S		R	
2			G	
3	Y	R	W	
4				

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)	23.819" (605mm)
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 814 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

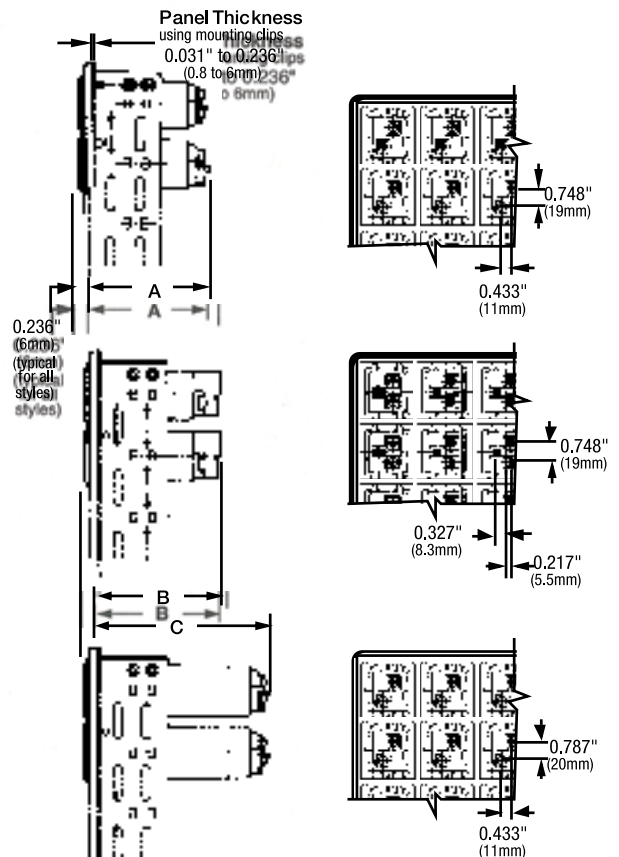
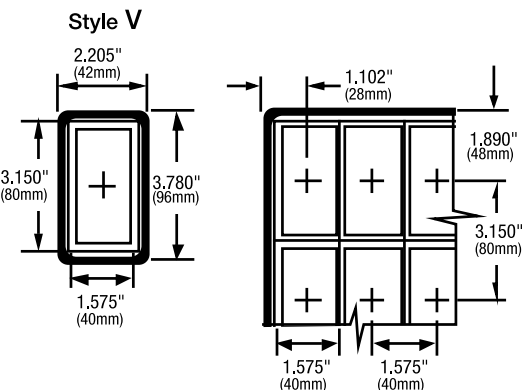
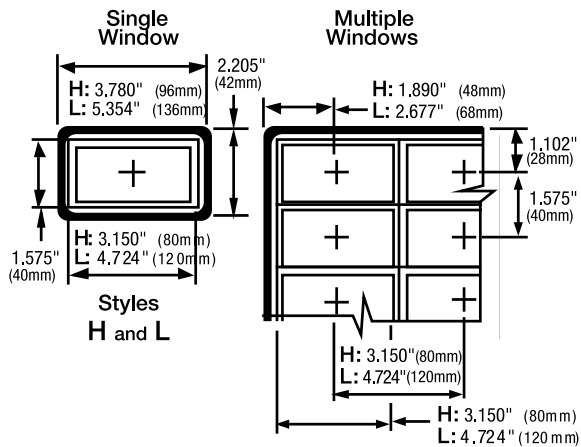
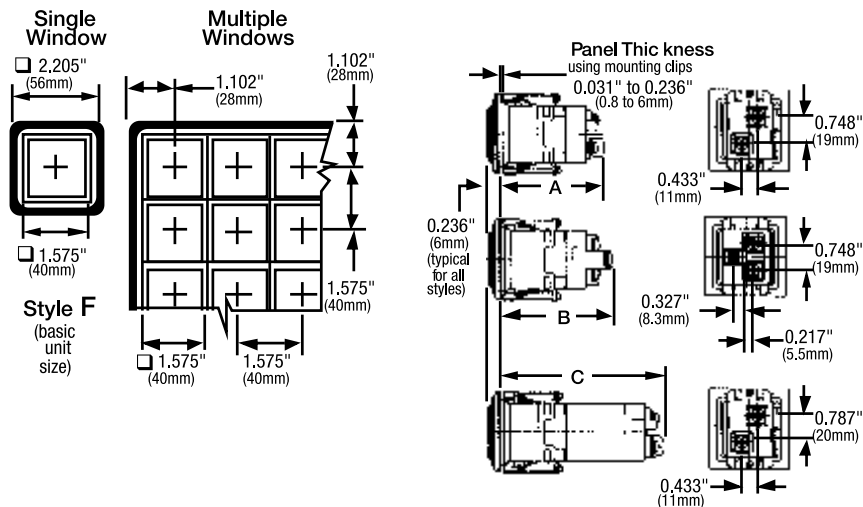
Dimensions, continued

Styles F, H, L, V, G:

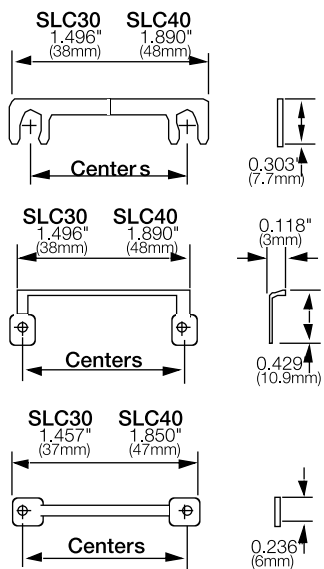
Single Window (right)

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)	—
	Transformer	3.327" (84.5mm)	—
C	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	

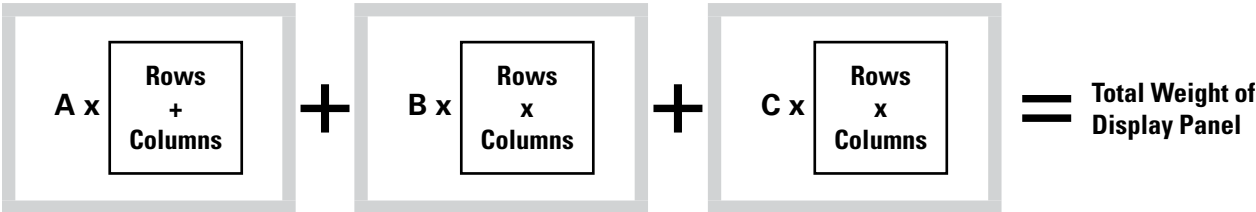


Dimensions, continued



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