

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

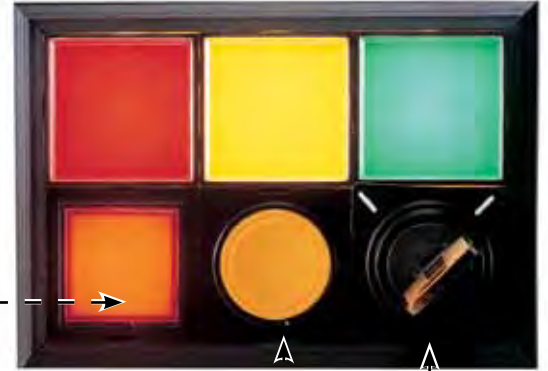
**SLC Series Panel Mounted Annunciators – an Ideal Alternative to Mounting Multiple Pilot Devices**

**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

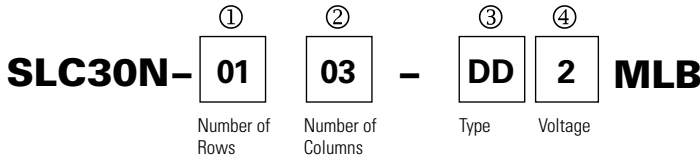
Circuit Breakers

## 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>  <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), 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
		Full voltage	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	6V AC/DC	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		

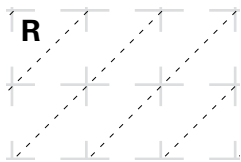
1. Secondary voltage on transformers and DC-DC converters is 24V.
2. To specify arrangement of varying window sizes and colors, use the order form on the next page.
3. Drawing required.

SLC30-IPS Order Form Instructions

How to order a SLC30-IPS display light:

Example 1: Specifying a window color

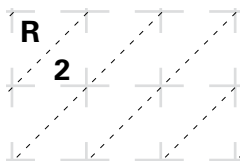
Enter the lens illumination color code in each square. Use the table below for color codes.



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.



**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

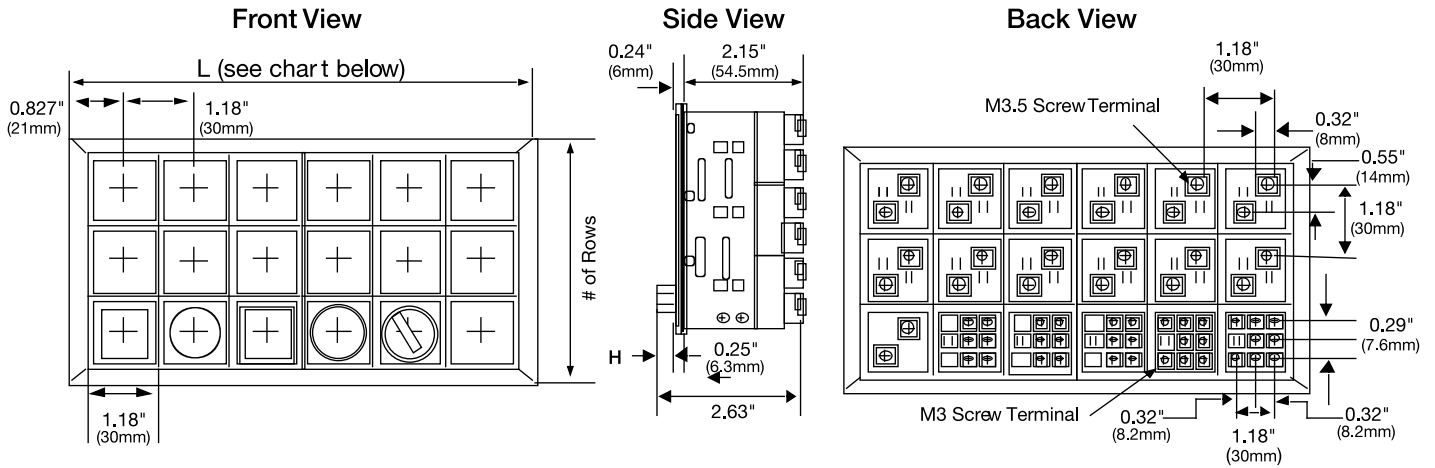
Timers

Contactors

Terminal Blocks

Circuit Breakers

## Dimensions

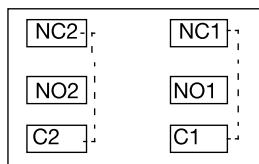
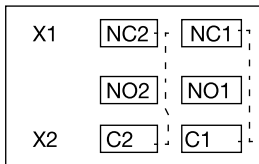
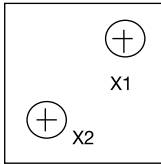


## Bottom View

SLC30

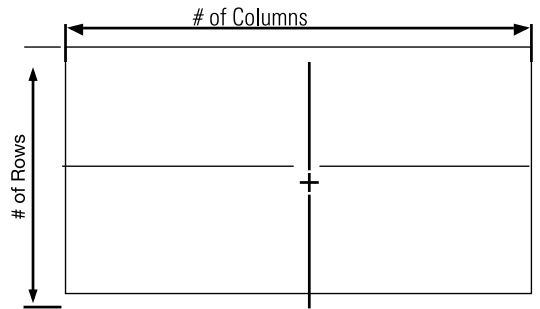
Illuminated Pushbuttons

Non-Illuminated Pushbuttons and Selector Switches



X1 = Positive Terminal, X2 = Negative Terminal

## Panel Cut-Out Size

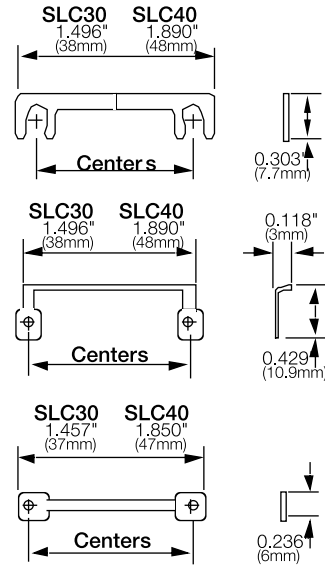


## Panel Cut-Out Dimensions

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

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