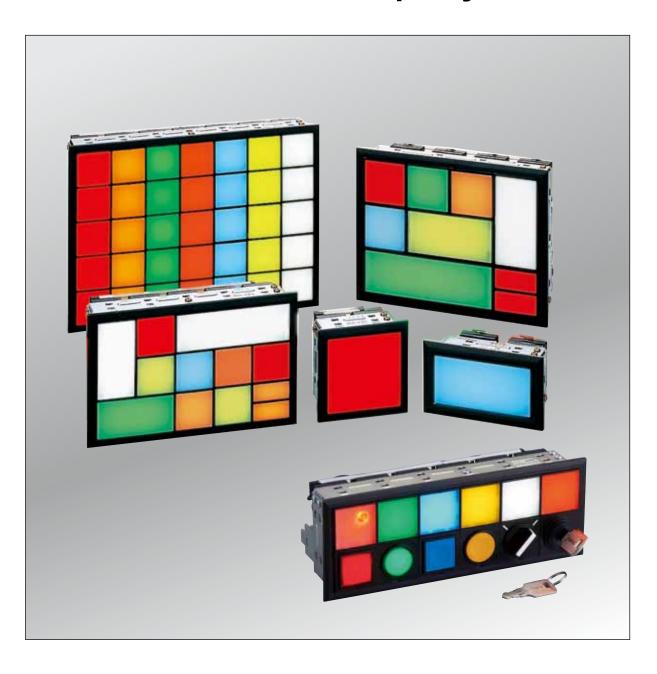


SLC Series Combination Display Units



SLC30/40 Series Combination Display Lights Selection Guide

Series SLC Series Combination Display Lights Model SLC30											
Model		An example of 15-window combin									
Shape		Spot illumination is available with Type F only.									
		Type F (Spot illumination) T (LED only)	(Spot size) (spot illumination) Type C Type H (full) Type L Type V Type G								
Light Sour	rce	LED Unit	LED lamp (LFTD) (SX6S/8 base)	Incandescent Lamp (LS) (BA9S/13 base, 1W)							
No. of Unit	ts	Basic (Type F) 1 for 1 window	Half Size (Type C) 1 for 1 window	Basic (Type F) 1 for 1 window							
		F, H, L, V, G	C only	F, H, L, V, G							
Illuminatio	n Face Size	F C C L	H V G	Type F $(30 \times 30\text{mm})$ Type H $(30 \times 60\text{mm})$ Type L $(30 \times 90\text{mm})$ Type V $(60 \times 30\text{mm})$ Type G $(60 \times 60\text{mm})$ Type C $(15 \times 30\text{mm})$ (split-window)							
Illuminatio	n Color	A (amber), G (green), PW (pure white) *, R (red), S (blue), W (white), Y (yellow), Red (R)/G (green) * PW is available with Type F only	A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow)	A (amber), G (green), R (red), S (blue), W (white), Y (yellow)							
Rated Volt	tage	6, 12, 24V AC/DC (full voltage) 100/110, 200/220V AC (transformer) 110V DC (DC-DC converter) 100/110V AC/DC (resistor)	6, 12, 24V AC/DC (full voltage) 100/110, 200/220V AC (transformer) 100/110V AC/DC (resistor)								
Lens Fram Cover Col	ne Color & Frame or	Black (Munsell N1.5 equivalent)									
Terminal S	Gcrew	M3.5 Incandescent resistor: M4 nut 2-color illumination, Type C, Chec	k terminal: M3								
	Full Voltage	1 to 200 (Type F equivalent)	1 to 50 (Type F equivalent)	1 to 200 (Type F equivalent)							
No. of Windows	Transformer/Resistor	1 to 75 (Time 5 a		1 to 50 (Type F equivalent)							
	Flasher/DC-DC Converter	1 to 75 (Type F equivalent)	_	_							
Degree of	Protection	IP40 (IEC 60529)									
Remarks		Jumper available 2-color alternate, check terminal, flasher (LED illuminated only)									
Approvals		UL, c-UL, DEMKO, CE (Note)									
Page			5								

Note: Except for DC-DC converter and resistor

SLC30/40 Series Combination Display Lights Selection Guide

	SLC Series Combir	nation Display Lights							
SLC40									
An example of 12-window combination Spot illumination is available with Type F only.									
Type F (Basic Size)	Type F (spot illumination) (LED only) Type C Type	pe H Type L Type V	Type G						
LED Unit	LED lamp (LSTD) (BA9S/13 base)	Incandescent Lamp (LE) (E12/15 base, 2W)	Incandescent Lamp (LS) (BA9S/13 base, 1W)						
Basic (Type F) 1 for 1 window	Half Size (Type C) 1 for 1 window	Basic (Type F) 1 for 1 window	Basic (Type F) 2 for 1 window						
 F, H, L, V, G	C only	F, H, L, V, G	F only						
F H C C V G V G Type F (40 × 40mm) Type H (40 × 80mm) Type L (40 × 120mm) Type V (80 × 40mm) Type V (80 × 40mm) Type G (80 × 80mm) Type G (80 × 80mm) Type C (20 × 40mm) (split-window)									
A (amber), G (green), PW (pure white) *, R (red), S (blue), W (white), Y (yellow), Red (R)/G (green) * PW is available with Type F only	A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow)	A (amber), G (green), R (red), S (l	olue), W (white), Y (yellow)						
12, 24V AC/DC (full voltage) 100/110, 200/220V AC (transformer) 110V DC (DC-DC converter) 100/110V AC/DC (resistor)	6, 12, 24V AC/DC (full voltage)	6, 12, 18, 24V AC/DC (full voltage) 100/110, 200/220V AC (transformer) 100/110V AC/DC (resistor)	6, 12, 18, 24V AC/DC (full voltage)						
Black (Munsell N1.5 equivalent)									
M3.5 Incandescent resistor: M4 nut 2-color illumination, Type C, Chec	k terminal: M3								
1 to 126 (Type F equivalent)	1 to 105 (Type F equivalent)	1 to 105 (Type F equivalent)	1 to 105 (Type F equivalent)						
1 to 60 (Type F equivalent)	_	1 to 50 (Type F equivalent) —	_						
IP40 (IEC 60529)									
Extensive windows are easy to Jumper available	recognize at high places. Iuminated only), check terminal, du	al-lamp (incandescent lamp only)							
UL, c-UL, DEMKO, CE (Note)									
		15							

Note: Except DC-DC converter, resistor

SLC30/40 Series Combination Display Lights Selection Guide

Series		Combination Display with Control Units							
Model		SLC30 Series (SLC30 + SLC-LW)							
Shape									
No. of Windo	ows	Combination display lights: 29 maximum Control units: 10 maximum (the bottom row only) Total 30 maximum							
Combination	n Display Lights	 SLC30 series LED one-color (window 30 × 30mm) Illumination color: A (amber), G (green), PW (pure white), R (red), S (blue), W (white), Y (yellow) 							
	Ratings	Rated voltage: 24V AC/DC Operating voltage: 24V AC/DC ±10%							
Control Unit		 Pushbutton (square, round with square bezel, momentary) Illuminated pushbutton (square, round with square bezel, momentary) Selector switch (2, 3 positions, round with square bezel) Key selector switch (2, 3 positions, round with square bezel) 							
	Contact Ratings (Resistive Load)	 Rated insulation voltage: 250V AC/DC Rated current: 3A/gold, 5A/silver Gold contact: 125V AC/0.1A, 30V DC/0.1A Silver contact: 125V AC/3A, 250V AC/2A, 30V DC/2A, 125V DC/0.4A 							
Lens Frame Cover Color	Color & Frame	Black (Munsell N1.5 equivalent)							
Degree of P	rotection	IP40 (IEC 60529)							
Page		40							

<IP65 Degree of Protection Pilot Lights>

The following control square flush pilot lights can be mounted collectively to design a panel similar to combination display lights.

SLC30 series equivalent HW2P-1



Flange size	□30
Mounting hole	ø22
Degree of protection	IP65 (IEC 60529)

Collective Mounting Example (HN2P)





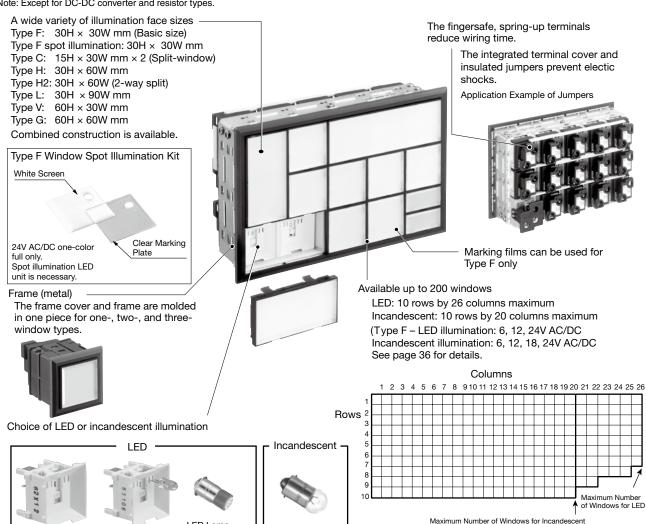
Highly bright "Super LED" unit improves visibility and safety.

- Eight types of illumination faces to choose from. Compact combination display lights.
- Super bright Super LED.
- The fingersafe spring-up terminals reduce wiring time and prevent electrical shocks.
- The insulated jumper, when used on fingersafe spring-up terminals, eliminates the need of terminal cover.
- · Legends can be engraved on the attached marking plate. One or two thin marking sheets (not attached) can also be installed (Type F only).
- Spot illumination available for easy recognition in bright environment (Type F only)
- UL and c-UL recognized, EN compliant.

Applicable Standards	Mark	File No. or Organization
UL508 CSA C22.2 No.14	c711 us	UL/c-UL Recognized File No. E68961
EN60947-1	TW	TÜV SÜD
EN60947-5-1 (Note)	ϵ	EU Low Voltage Directive

An Example of 15-window size Spot illumination is available with type F only. Type F Type H (full) Type V Type G (spot illumination) (split-Type H2 (LED only) (2-way illumination) window)

Note: Except for DC-DC converter and resistor types.



BA9S/13

Base Lamp

LED Lamp (SX6S/8 base)

For Type C only

Spot Illumination

LED Unit

LED Unit

For LED illuminated 110/220V AC type, up to 75 windows (Type F

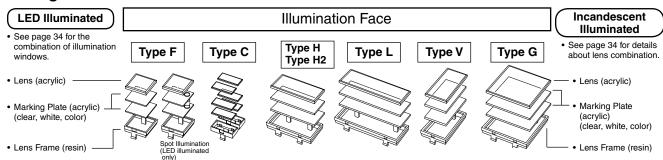
50 windows (Type F equivalent) can be mounted. Lighting limitations should be considered in any application.

For incandescent illuminated 110/220V AC type and for Type C, up to

equivalent) can be mounted.

For details see page 32.

Configuration



Type F, H, H2, L, V, G

Display Color Type	Light Source	Marking Plate/ Color Screen (one each) (Note 3)	Lens	ON Color (Color Code)				
Standard	LED Unit	clear / white		amber (A), blue (S), green (G), pure white (PW) (Note 1), red (R), white (W), yellow (Y), red/green 2-color alternate (RG) (Note 2)				
(using clear lens)	Incandescent	color / white	Clear	ber (A), blue (S), green (G), red (R), yellow (Y),				
10113)	Lamp	clear / white	Lens	white (W)				
Color Screen	LED Unit	color / white		amber (TA), blue (TS), green (TG), pure white (TPW), red (TR), white (TW), yellow (TY)	Same as ON color			
Gray Lens	LED Unit Incandescent Lamp	black (Note 4) / clear	Gray Lens	Lens: gray Legend Color amber (SA), blue (SS), green (SG), pure white (SPW) (Note 1), red (SR), white (SW), yellow (SY) white (SW)	Gray			

Note 1: Pure white (PW) is available with Type F only.

Note 2: Spot illumination is not available with red/green 2-color alternate (RG).

Note 3: The order to insert clear marking plate, color screen, and white screen can be interchanged if necessary.

Marking plate/color screen are interchangeable. Engrave markings on the flat surface of the plate or screen next to the lens.

Note 4: Black marking plate has black coating. Engrave a reverse legend on the black-coated surface.

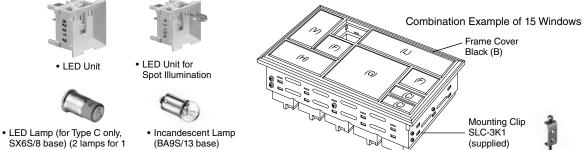
Type C (split-window)

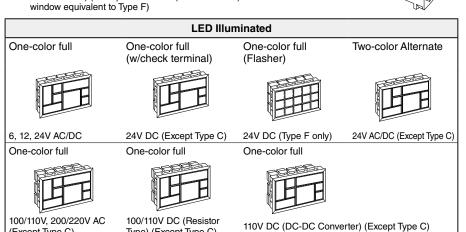
	-	-								
Display Color Type	Light Source	Marking Plate/ Color Screens (one each)(Note 1)	Lens		ON Color (Color Code)					
Standard		color / white	Clear	amber	per (A), blue (S), green (G), red (R), yellow (Y),					
(using clear lens)		clear / white	Lens	pure white (PW), white (W)						
Gray Lens	LED Lamp	black (Note 2) / color	Gray	Lens:	amber (SA), blue (SS), green (SG), red (SR), yellow (SY),					
Gray Lens		black (Note 2) / clear	Lens	gray	Color	pure white (SPW), white (SW)	Gray			

Note 1: The order to insert clear marking plate, color screen, and white screen can be interchanged if necessary.

Marking plate/color screen are interchangeable. Engrave markings on the flat surface of the plate or screen next to the lens.

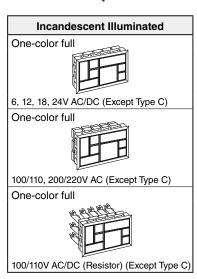
Note 2: Black marking plate has black coating. Engrave a reverse legend on the black-coated surface





- 2-way split is also available in Type H2.
- The illustration above shows combination examples of windows. One-window type is available in Type F (see page 10 and 11).

Type) (Except Type C)



(Except Type C)

Specifications

LED Illuminated

Lig	ht Source					LE	ED Unit					LED Lamp		
Inp	ut				Full Voltage			Transformer	DC-DC Converter	Resistor		Full Voltage		
Illu	mination		One-color	One-color w/check termin	nal (Note 1)	Two-color Alternate	Flasher		One-color	One-color × 2 Split-window (Type C)				
	gersafe Spring- minal	up	Provided (except for chec	k terminal)	(Note 2)	Provided		(Note 2)					
	ted Voltage C: 50/60Hz)		6V AC/DC ±5%	12V AC/DC ±10%	24V AC/DC ±10%	24V AC/DC ±10%	24V DC ±10%	100/110V AC ±10% 200/220V AC ±10%	110V DC (90 to 140V DC)	100/110V AC/DC ±10%	6V AC/DC ±10%	12V AC/DC ±10%	24V AC/DC ±10%	
	ximum Current aw (VA)			Same as inte	rnal LED Unit		0.5W + internal LED	1.7	1.4	1.5	San	ne as internal	LED	
Illu	mination Color		Amber, gree yel	n, red, white, low	Amber, blue, green, pure white, red, white, yellow	Red/green Alternate	Amber	, blue, green, pure	white, red, whi	te, yellow	Amber, blu	e, green, pure white, yellow		
Sta	ındards				UL, c-UL liste	ed, EN complia	ınt		-	_				
	Rated Voltage		6V AC/DC	12V AC/DC	24V AC/DC	24V DC		24V A	C/DC		6V AC/DC	12V AC/DC	24V AC/DC	
	Amber, re	d	12 mA	12 mA	12 mA (Note 6)			12 mA (I						
립	White Blue, green,		21 mA	12 mA	12 mA (Note 6)	Red: 12 mA		12 mA (I	7 mA	8 mA	8 mA			
Unit/Lamp	Blue, green, pure white, ye	ellow	12 mA	12 mA	11 mA (Note 6)	Green: 11 mA		11 mA (ľ	(Note 7)	(Note 7)	(Note 7)			
Built-in LED U	Illumination Co (code)	olor		ue (S), green (G white (W), yellov		Red (R)/ green (G)	pure v	Amber (A), blue white (PW), red (R)		lue (S), green (, red (R), white	G), pure white (W), yellow (Y)			
÷	Base				SX6S/8									
Buil	LED Life (referen	ice)			Approx. 50,0	00 hours (whe	n used on com	plete DC, luminan	ce reduces to 5	60% of the initial	al intensity)			
	Part No.		SLDN-36M-*	SLDN-31M-*	SLDN-32M-*	SLDN-32MW-RG		SLDN-	32M-*		LFTD-6*	LFTD-1*	LFTD-2*	
	No. of Units				1	LED unit per w	indow of basic	Type F			1 LED lan	np per split-w	indow type	
	shing Period ote 3)			_	_		0.5 ±0.2 sec		_		_			
Ins	ulation Resistar	nce				100 N	/IΩ between liv	e and dead parts ((500V DC meg	ger)				
Die	electric Strength		2000V AC	(1 minute) bet	ween live and	dead parts		2500V AC (1 minutoreen live and dead	2000V AC (1 minute)		00V AC (1 mir n live and de			
	erating nperature (Note	4)		-20 to	+40°C		-10 to +40°C	-20 to +40°C	-10 to +40°C	-20 to +40°C		–20 to +40°C	;	
Sto	rage Temperatu	ıre	-25 to +60°C (no freezing)											
Ор	erating Humidit	у					45 to 85	5% RH (no conden	sation)					
Coperating numerical in place of a														

Specify a color code in place of *.

Note 1: The rated voltage for w/check terminal type is 24V DC only. Note 2: Terminal cover is available (see page 26).

Note 3: Duty 1:1 Multiple flasher type units do not synchronize with each other.
Use Type F only.
Note 4: No freezing

Note 5: Blue and pure white LED is 24V AC/DC only.

Note 6: Spot illumination uses the spot illumination LED unit (SLCN-32ST-*). See page 29

for rated current.

Note 7: Rated current for DC. See page 29 for AC.

Incandescent Illuminated

	Illumination		One- Full V	One-color Transformer	One-color Resistor							
Rated Vo	oltage (AC: 50/60Hz)	6V AC/DC	12V AC/DC	100/110, 200/220V AC 50/60 Hz 100/110V AC/D0								
Illumina	tion Color	Amber, blue, green, red, white, yellow										
	Rated Voltage	6.3V·1W lamp	18V-1W lamp	24V-1W lamp	30V-1W lamp	6.3V-1W lamp	18V-1W lamp					
	Operating Voltage	5 to 6V	12 to 18V	18 to 24V	24 to 30V	5 to 6V	12 to 18V					
Built-in	Base	BA9S/13										
Lamp	Lamp Life	Approx. 1,000 hours minimum (mean value when used on the rated voltage)										
	Part No.	LS-6	LS-8	LS-2	LS-6	LS-8						
	No. of Lamps	1 lamp per window of basic Type F										
Insulation	on Voltage	100 MΩ between live and dead parts (500V DC megger)										
Dielectr	ic Strength	2000V AC (1 minute) between live and dead parts 2500V AC (1 minute) between live and dead parts 2000V AC (1 minute) between live and dead part										
Operation	ng Temperature	−20 to +40°C (no freezing)										
Storage	Temperature	-25 to +60°C (no freezing)										
Operating Humidity 45 to 85% RH (no condensation)												

Terminal cover is available for all incandescent illuminated types (see page 26), except for the resistor type.

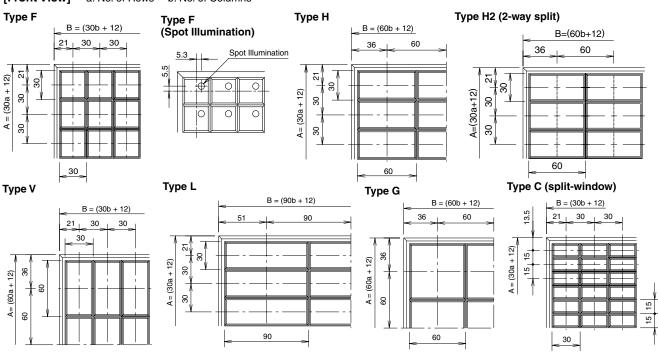
LED/Incandescent Illuminated

	Illumination Face	Type F (Note 1, 2) (Basic)	Type C (Split-window)	Type H / Type H2 (Note 3)	Type L	Type V	Type G						
	Window (H × W)	30 × 30	15 × 30	30 × 60	30 × 90	60 × 30	60 × 60						
Ξ	Illumination Face (H × W)	28 × 28	13 × 28	28 × 58	28 × 88	58 × 28	58 × 58						
遺眞	White color screen, clear marking plate, color screen (H × W × t)	27 × 27 × 1.0	12 × 27 × 1.0	27 × 57 × 1.0 (Note 2)	27 × 87 × 1.0	57 × 27 × 1.0	57 × 57 × 1.0						
i E iS	Marking Film	Applicable	_	_	_	_	_						
I≝	Engraving Area (white, transparent, color plates)	25 × 25	25 × 25 10 × 25 25 × 55 25 × 85 55 × 25										
Mater Scree	ial of Marking Plate & Color n			Acr	ylic								
Lens F	rame Color & Frame Cover Color	Black (Munsell N1.5 equivalent)											
Conn	ection Wire		Solid wire: ø1.6 x 2, Stranded 2 mm² x 2										
Termi	nal Screw		M3.5	screw, Incandescent resis	tor: M4 nut, Check termir	nal: M3							
Degre	e of Protection		IP40 (IEC 60529)										
Pollut	on Degree	3											

Note 1: Flasher type, pure white illumination, and spot illumination types are available in Type F only. Note 2: Spot illumination uses designated clear plate and color screen. Note 3: 2-way split type (Type H2) can use 2-way split color screen only.

Dimensions

[Front View] a: No. of Rows b: No. of Columns

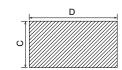


Type F Dimensions & No. of Windows (Type C, H, L, V, and G can be converted into Type F.)

																					-	•	•						
	Colu	ımns	b	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Dawa	Dimer	nsions	В	42	72	102	132	162	192	222	252	282	312	342	372	402	432	462	492	522	552	582	612	642	672	702	732	762	792
Rows		Panel Cut-out	(D)	(35)	(65)	(95)	(125)	(155)	(105)	(215)	(245)	(275)	(305)	(335)	(265)	(205)	(425)	(455)	(495)	(515)	(545)	(575)	(605)	(635)	(665)	(605)	(725)	(755)	(795)
а	A	(C)	\setminus	(33)	(03)	(93)	(123)	(133)	(103)	(213)	(243)	(273)	(303)	(333)	(303)	(393)	(423)	(433)	(403)	(313)	(343)	(373)	(003)	(033)	(003)	(093)	(123)	(733)	(703)
01	42	(35))	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
02	72	(65))	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
03	102	(95))	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78
04	132	(125	5)	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104
05	162	(155	5)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130
06	192	(185	5)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150	156
07	222	(215	5)	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126	133	140	147	154	161	168	175	182
08	252	(245	5)	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160	168	176	184	192	200	
09	282	(275	5)	9	18	27	36	45	54	63	72	81	90	99	108	117	126	135	144	153	162	171	180	189	198	_	_	_	_
10	312	(305	5)	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	_	_	_	_	_	

How to Read the Table

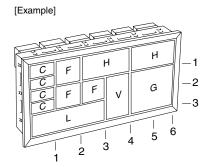
- The number of windows equals rows multiplied by columns. For example, for 5 rows by 7 columns, the number of windows is 35, external dimensions are 162mm high by 22mm wide, and panel cut-out is 155mm high by 215mm wide.
- 2. External dimensions are represented by A for rows and B for columns in boldface.
- 3. Panel cut-out dimensions are shown in (), for height (C) and width (D). Panel cut-out tolerance is +1.0 to –0 mm (for one window: +0.6 to –0.4mm).



Panel Cut-out (SLC30)

Determine the panel thickness in consideration of the weight of display lights and wires (see page 26).

All dimensions in mm.



- 4. Total number of windows, dimensions, panel cut-out
- For Type C, H, L, V, and G, convert the numbers of rows and columns into Type F (basic size) equivalents.
 - Type C Type F equivalent: 2 split-windows consist of one window.
 - Type H Type F equivalent: 2 windows

 Height: 1 row

 Width: 2 columns
 - Type V Type F equivalent: 2 windows.

 Height: 2 rows
 Width: 1 column
- ② The combination example at left consists of 3 rows by 6 columns.
- The above table shows: No. of windows: 18 Dimensions: 102H x 192W mm
 Panel cut-out: 95H x 185W mm

Type L — Type F equivalent: 3 windows
 Height: 1 row
 Width: 3 columns

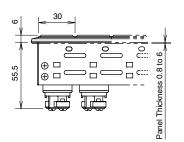
 Type G — Type F equivalent: 4 windows
 Height: 2 rows
 Width: 2 columns

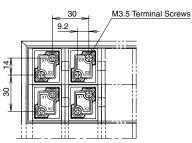
Dimensions

LED Illuminated [Side & Rear Views]

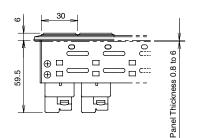
Type F (Type H, L, V, and G are the same in side and rear views as Type F.)

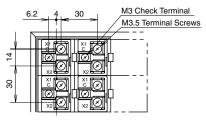
- 6, 12, 24V AC/DC
- One-color full
- Spot Illumination 24V AC/DC





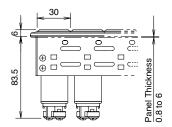
- Full Voltage
- One-color full w/Check Terminal 24V DC
- Two-color alternate 24V AC/DC
- For applicable terminal cover, see page 26.

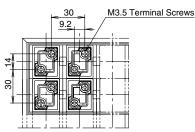




- w/Check Terminal Terminal X1 is a positive pole; Terminal X2 and C (check terminal) are negative poles.
- Two-color Alternate Red (R) illumination: X1 positive, C negative Green (G) illumination: X1 positive, X2 negative

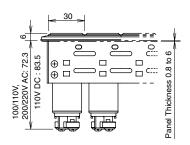
- Full Voltage
- One-color full
- Flasher Type (Type F only)
 For applicable terminal cover, see page 26.

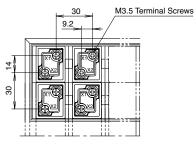




Terminals X1 and X2 are positive and negative poles, respectively.

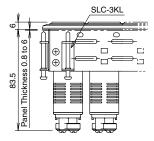
- Transformer
- · One-color full
- 100/110, 200/220V AC/DC
- 110VDC (DC-DC Converter)

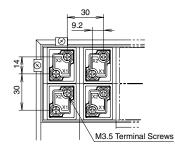




• On LED illuminated DC-DC Converter type units, Terminals X1 and X2 are positive and negative poles, respectively.

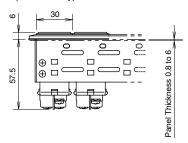
- Resistor
- One-color full
- 100/110V AC/DC

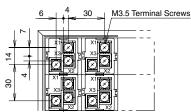




Type C (split-window)

- Full Voltage6, 12, 24V AC/DC
- One-color full, 2 x LED lamps, Split-window type





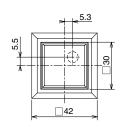
- Terminal X1 is COM terminal.
- For applicable terminal cover, see page 26.

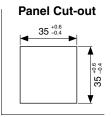
Dimensions

LED Illuminated [One-window, Type F only] Full Voltage 6, 12, 24V AC/DC, One-color Full

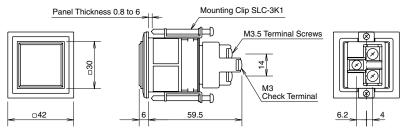
Panel Thickness 0.8 to 6 Mounting Clip SLC-3K1 M3.5 Terminal Screws Terminal Screws 9.2

Spot Illumination



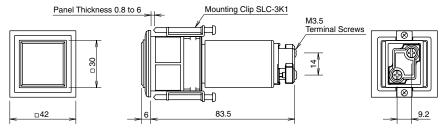


Full Voltage w/Check Terminal 24V DC / Two-color Alternate 24V AC/DC



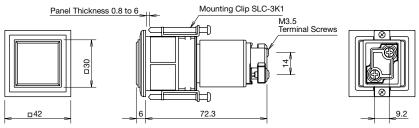
- w/Check Terminal Type Terminal X1 is a positive pole; Terminals X2 and C (check terminal) are negative poles.
- Two-color Alternate Type
 Red (R) illumination: X1 positive, C negative
 Green (G) illumination: X1 positive, X2 negative
- See page 26 for terminal covers.

Flasher 24V DC

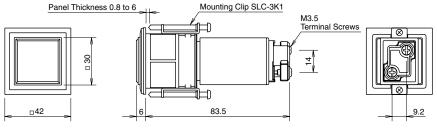


- On LED illuminated flasher type, Terminals X1 and X2 are positive and negative poles, respectively.
- See page 26 for terminal covers.

Transformer 100/110, 200/220V AC

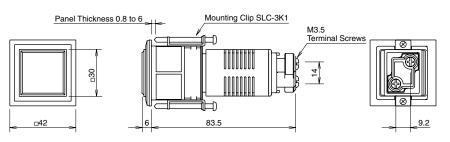


DC-DC Converter 110V DC



 On LED illuminated DC-DC converter type, Terminals X1 and X2 are positive and negative poles, respectively.

Resistor 100/110V AC/DC



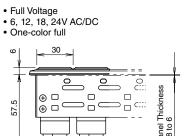
(Resistance) LED illuminated type: 7.2 k Ω , 4W

All dimensions in mm.

10 IDEC (14/09/10)

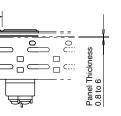
Dimensions

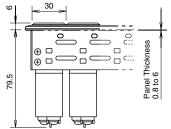
Incandescent Illuminated [Side & Rear Views]

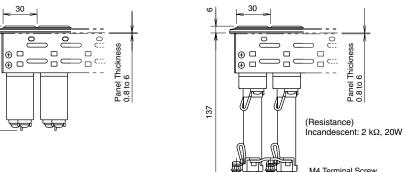


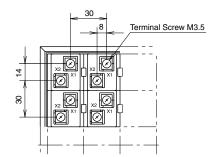
- Transformer
- 100/110, 200/220V AC

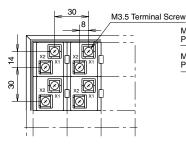
- Resistor
- 110V AC/DC

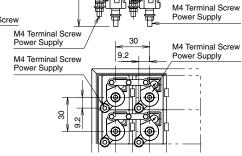




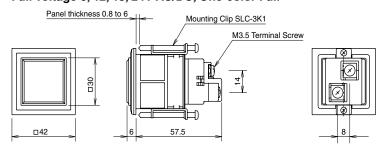


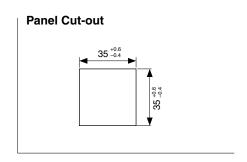




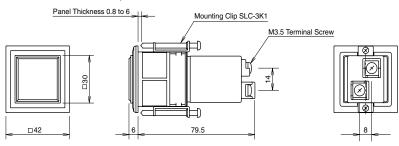


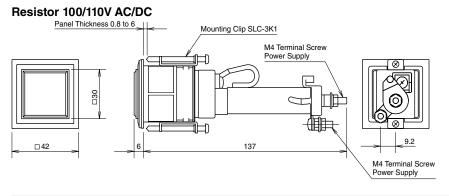
Incandescent Illuminated [One-window, Type F only] Full Voltage 6, 12, 18, 24V AC/DC, One-color Full





Transformer 100/110, 200/220V AC



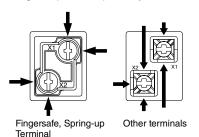


(Resistance) Incandescent: 2 k Ω , 20W

[•] Terminal cover is available. For dimensions, see page 26.

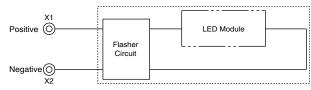
Terminal Connection (LED Illuminated)

 For one-color full LED Illuminated with check terminal, DC-DC converter, and resistor, Terminals X1 and X2 are positive and negative poles, respectively.

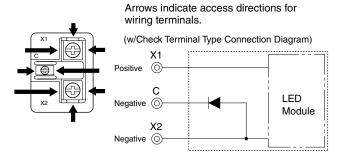


Arrows indicate access directions for wiring terminals.

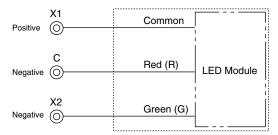
(Flasher Type Connection Diagram)



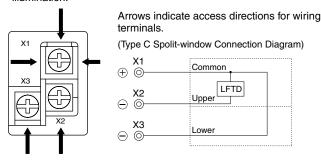
 For w/check terminal and two-color alternate units, terminal X1 is a positive pole; Terminals X2 and C (check terminal) are negative poles.



Connection for two-color alternate is as follows.
 Red (R) — Terminal X1: positive, Terminal C: negative
 Green (G) — Terminal X1: positive, Terminal X2: negative
 (Two-color alternate Type Connection Diagram)



 For the LED illuminated split-window (Type C), Terminal X1 (+) is a common terminal. Terminal X2 is a negative pole of upper illumination and Terminal X3 is a negative pole of lower illumination.



12

Terminal Connection Using Jumpers

• For terminal connection of types F, H, L, V, and G (except Type C), jumpers can be used as shown below.

SLC30 Series

		Terminal X1	Terminal X2	Terminal C
LED Illuminated (Note 2)	Fingersafe, Spring-up Terminal (Note 1)	SLCN-JP34 SLCN-JP35	SLCN-JP34 SLCN-JP35	_
(Note 2)	Others	SLC-JP30	SLC-JP33	SLC-JP32
Incandesce	nt Illuminated	SLC-JP30	SLC-JP33	SLC-JP32

Note 1: fingersafe, spring-up terminals are used in one-color full illuminated type (6, 12, 24V AC/DC, 100/110, 200/220V AC, 110V DC).

Note 2: No jumper is used on resistor type.

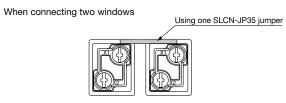
 For Type C, jumpers can be used on Terminal X1 only as shown below.

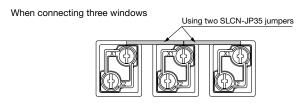
Direction	When using Type C only When using Type C and Two-color alternate
Vertical	SLC-JP33
Horizontal	SLC-JP30

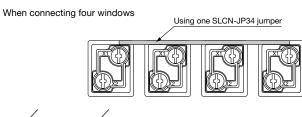
Note: Jumpers cannot be used when using both Type C and fingersafe spring-up terminals.

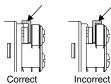
[Examples of Using Jumpers]

LED Illuminated (Fingersafe Spring-up Terminal)



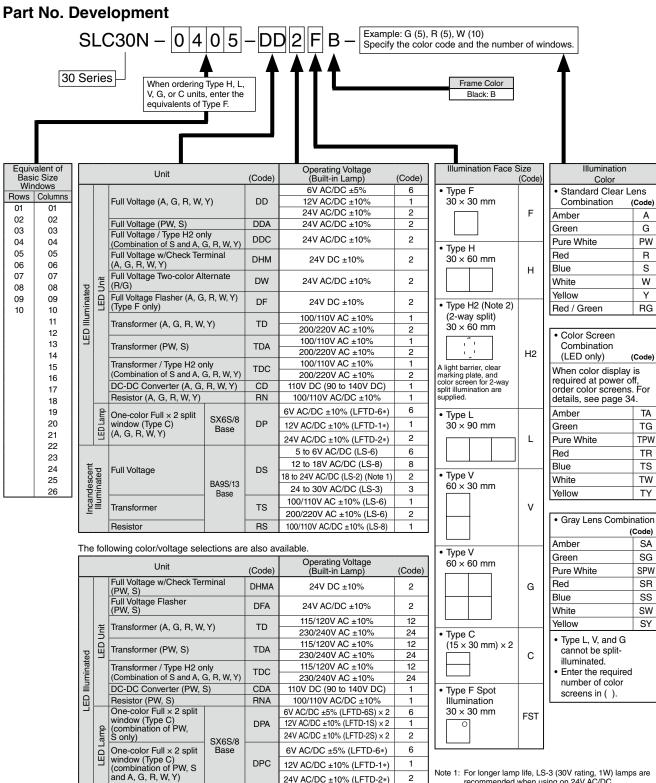






Jumpers (SLCN-JP34/35) have an orientation. Ensure that jumpers are installed correctly.

(14/09/10)



115V AC ±10% (LS-6)

120V AC ±10% (LS-6)

230V AC ±10% (LS-6)

240V AC ±10% (LS-6)

380V AC ±10% (LS-6)

400/440V AC ±10% (LS-6) 480V AC ±10% (LS-6)

BA9S/13

TS

Transformer

11

12

23

24

38

48

recommended when using on 24V AC/DC

Note 2: Type H2 (2-way split) can be configured with the combination described below.

Left	Right
Standard Clear Lens	Standard Clear Lens
Color Screen	Color Screen
Grey Lens	Grey Lens

Ordering Information

When ordering SLC Series Combination Display Lights, use the specification sheet provided on page 39.

Designation Procedure

- 1. Part No.: Refer to Part No. Development Configuration on page 13.
- 2. Quantity: Enter the required number of identical assemblies.

Counting of Windows

Count the number of windows in the equivalent of Type F (basic

Leaf Spring (for one-window type only)

Leaf spring for temporary fastening is not attached, and can be supplied free of charge upon request when ordering (Part No. SLD44KVP).

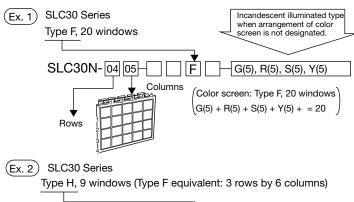
[Conversion Rate]

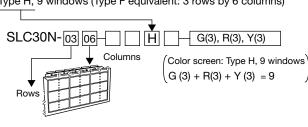
- Type H (horizontal)
 - Type F equivalent: 2 windows Row (1), Column (2)
- Type L (horizontal)
 - Type F equivalent: 3 windows Row (1), Column (3)
- Type V (vertical)
- Type F equivalent: 2 windows Row (2), Column (1)
- Type G (large)
 - Type F equivalent: 4 windows Row (2), Column (2)

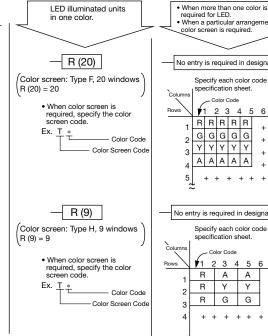
LED illuminated units

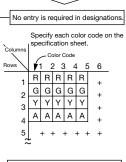
- Type C (split-window)
 - Type F equivalent: 1 window Row (1), Column (1)

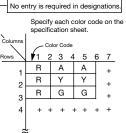
[Designation Examples]

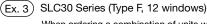




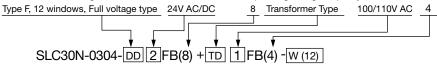


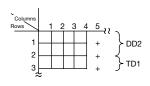






When ordering a combination of units with different operating voltages, specify Part No. as follows.





Specify the position of the units and each voltage on the specification sheet

(Ex. 4) When ordering a combination of units with different illumination colors, specify Part No. as follows.

Example: Full voltage LED illuminated 24V AC/DC, Red (6), Pure White (2)

SLC30N-0204-DD2FB(6) + DDA2FB(2) - R(6)PW(2) Pure White Designation Red: 6, Pure White: 2

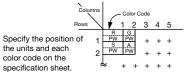


When ordering a combination of units with different illumination colors for four windows of type C, specify Part No. as follows.

Example: Full voltage LED illuminated 24V AC/DC

SLC30N-0202-DPA2CB(1) DPC2CB(3) - R(1)G(1)A(1)S(1)PW(4) Blue, Pure white

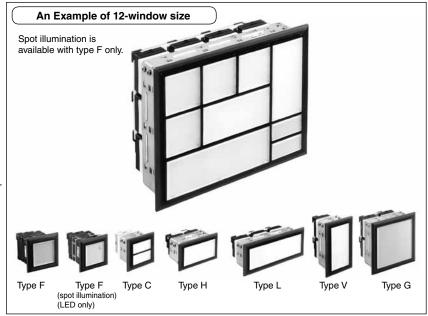
Designation Red, green, amber, pure white Red: 1, green: 1, blue 1, amber 1, pure white 4



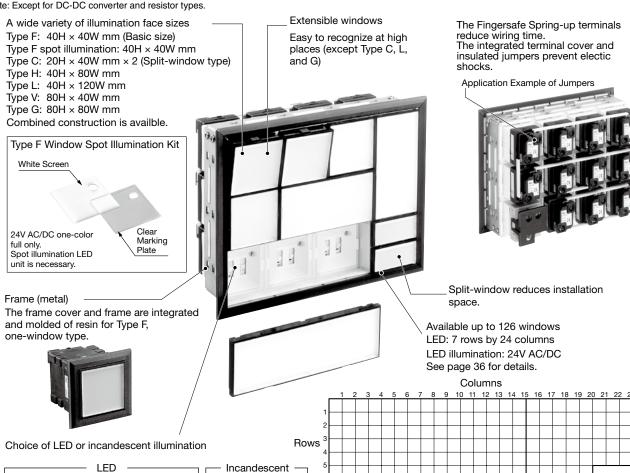
Highly bright "Super LED" unit improves visibility and safety.

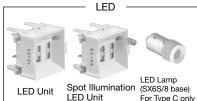
- Eight types of illumination faces in 40mm size.
- Extensible window ensures high visibility when installed at high places (except C, L, G).
- Super bright Super LED.
- The fingersafe spring-up terminals save wiring time and prevent electrical shocks.
- The insulated jumper, when used on fingersafe spring-up terminals, eliminates the need of terminal cover.
- · Legends can be engraved on the attached marking plate. One or two thin marking sheets (not attached) can also be installed (Type F only).
- · Spot illumination available for easy recognition in bright environment (Type F only).
- UL and c-UL recognized, EN compliant (EN60947-5-1).

Applicable Standards	Mark	File No. or Organization
UL508 CSA C22.2 No.14	571 US	UL/c-UL Recognized File No. E68961
EN60947-1 EN60947-5-1		TÜV SÜD
(Note)	CE	EU Low Voltage Directive



Note: Except for DC-DC converter and resistor types.





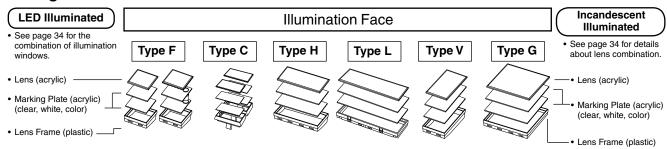
BA9S/13 Base Lamp For Type C only

Maximum Number of Windows for LED

Maximum Number of Windows for Incandescent

- For LED illuminated 110/220V AC type, up to 60 windows (Type F equivalent) can be mounted.
- For incandescent illuminated 110/220V AC type, up to 50 windows (Type F equivalent) can be mounted. For Type C, up to 105 windows (Type F equivalent) can be mounted.
- Lighting limitations should be considered in any applications. For details, see page 32.

Configuration



Type F, H, L, V, G

Display Color Type	Light Source	Marking Plate/Color Screen (one each) (Note 1) (Note 3)	Lens		ON Color (Color Code)							
Standard	LED Unit	clear / white			mber (A), blue (S), green (G), pure white (PW) (Note 1), red (R), white (W), yellow (Y), d/green 2-color alternate (RG) (Note 2)							
(using clear lens)	Incandescent	color / white	Clear	amber (A	mber (A), blue (S), green (G), red (R), yellow (Y),							
10113)	Lamp	clear / white	Lens	white (W	white (W)							
Color Screen	LED Unit	color / white		amber (TA), blue (TS		Same as ON color					
Gray Lens	LED Unit	black (Note 4) /	Gray	Lens:	Legend	amber (SA), blue (SS), green (SG), pure white (SPW) (Note 1), red (SR), white (SW), yellow (SY)	Gray					
Giay Lelis	Incandescent Lamp	clear	Lens	gray	Color	white (SW)	Gray					

Note 1: Pure white (PW) is available with Type F only.

Note 2: Spot illumination is not available with red/green 2-color alternate (RG).

Note 3: The order to insert clear marking plate, color screen, and white screen can be interchanged if necessary.

Marking plate/color screen are interchangeable. Engrave markings on the flat surface of the plate or screen next to the lens.

Note 4: Black marking plate has black coating. Engrave a reverse legend on the black-coated surface.

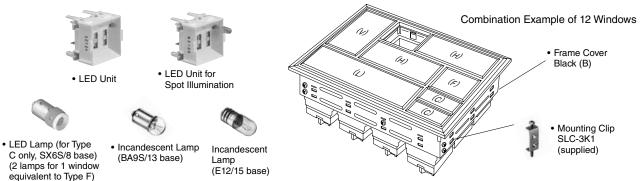
Type C (split-window)

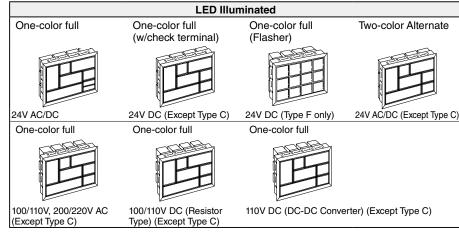
Display Color Type	Light Source	Marking Plate/Color Screen (one each) (Note 1)	Lens				OFF Color			
Standard					per (A), blue (S), green (G), red (R), yellow (Y),					
(using clear lens)	LED Lamp	amp clear / white Lt black (Note 2) / color G		pure whi	ure white (PW), white (W)					
Gray Lens				Lens:	s: Legend amber (SA), blue (SS), green (SG), red (SR), yellow (SY),		Gray			
Gray Lens		black (Note 2) / clear	Lens	gray	Color	pure white (SPW), white (SW),	Giay			

Note 1: The order to insert clear marking plate, color screen, and white screen can be interchanged if necessary.

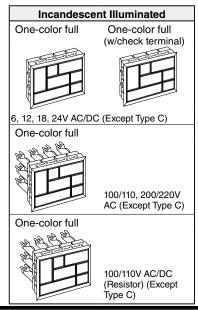
Marking plate/color screen are interchangeable. Engrave markings on the flat surface of the plate or screen next to the lens.

Note 2: Black marking plate has black coating. Engrave a reverse legend on the black-coated surface.





• The illustration above shows combination examples of windows. One-window is available in Type F.



Specifications

LED Illuminated

Ligi	nt Source			LED Unit					LED Lamp				
Inp	ut	Full V	oltage		Transformer	DC-DC Converter	Resistor		Full Voltage				
Illur	nination	One-color One-color w/check terminal (Note 1)	Two-color Alternate	Flasher Type	One-color	One-color	One-color		One-color × 2 rindow Type (1				
	gersafe Spring-up minal	Provided (except for check terminal)	(Note 2)	Provided		Provided	(Note 2)						
	ed Voltage :: 50/60Hz)	24V AC/DC ±10%	24V AC/DC ±10%	24V DC ±10%	100/110V AC ±10% 200/220V AC ±10%	110V DC (90 to 140V DC)	100/110V AC/DC ±10%	6V AC/DC ±10%	12V AC/DC ±10%	24V AC/DC ±10%			
	kimum Current w (VA)	Same as internal LED) unit	Same	as internal LE	D lamp							
Illur	mination Color	Amber, blue, green, pure white, red, white, yellow	Red/green Alternate	Ambe	r, blue, green, pu	re white, red, whi	ite, yellow		nber, blue, gre nite, red, white				
Sta	ndards	UL, c-UL listed, EN compliant —							_				
	Rated Voltage	24V AC/DC	24V AC/DC		24V	AC/DC		6V AC/DC	12V AC/DC	24V AC/DC			
	Amber							7 mA					
	Blue, Pure White												
d L	Blue, Pure White Order 1 Blue, Pure White Green Red White White	15 mA (Note 5)	Red: 15 mA		1!	5 mA			10 mA	10 mA			
ξĘ	Red	(Green: 15 mA										
U						7 mA							
	Yellow	Ah (A) hh (C) (C)	D 1 (D) (A Is -	(A) hh (O)	it- (DM)	5.5 mA Amber (A), blue (S), green (G),						
Built-in LED Unit/Lamp	Illumination Color (code)	Amber (A), blue (S), green (G), pure white (PW), red (R), white (W), yellow (Y)	Red (R)/ green (G)		er (A), blue (S), gr red (R), white		pure white (PW) (Note 6), red (R), white (W), Y (yellow)						
Buil	LED Life (reference)	Ap	prox. 50,000 hou	rs (when used or	complete DC, lu	minance reduces	to 50% of the initia	intensity)					
_	Base		Plug-ir	unit type (for SL	C40 only)				BA9S/13 base	•			
	Part No.	SLCN-42M-*	SLCN-42MW-RG		SLCI	N-42M-*		LSTD-6*	LSTD-1*	LSTD-2*			
	No. of Units		1 LED ur	it per window of	basic Type F			1 LED lamp	per window of	basic Type F			
	shing Period te 3)	_		0.5 ±0.2s		_			_				
Insi	ulation Resistance				100 MΩ (500V D	C megger)							
Die	lectric Strength	2000V AC (1 minut between live and dead			500V AC (1 minut een live and dead	2000V AC (1 minute)		00V AC (1 min					
Oper	ating Temperature (Note 4)	-20 to +40°C	-20 to +40°C		-20 to +40°C								
Sto	rage Temperature	-20 to +40°C -10 to +40°C -20 to +40°C -10 to +40°C -20 to +40°C -20 to +40°C -20 to +40°C -20 to +40°C											
Оре	erating Humidity				to 85% RH (no c								
Sne	cify a color code in	place of *			,								

Specify a color code in place of *.

Note 1: The rated voltage for w/check terminal is 24V DC only.

Note 2: Terminal cover is available (see page 26).

Note 3: Duty 1:1. Multiple flasher units do not synchronize with each other.

Use Type F only.

Note 4: No freezing

Note 5: Spot illumination uses the spot illumination LED unit (SLCN-42ST-*). See page 29 for rated current.

Note 5: Spot illumination uses the spot illumination LED unit (SLCN-42ST-*). See page 29 for rated current.

Note 6: Yellow (Y) uses pure white LED lamp.

Note 7: Rated current for LED lamp is for DC. See page 29 for AC.

Incandescent Illuminated

modification and managed													
Inp	ut				Full V	oltage				Transformer	Resistor		
Illu	mination	One-color One-color One-color W/Check Terminal (Note 1)								color			
Rate	ed Voltage (AC: 50/60Hz)	6V AC/DC	12V AC/DC	18V AC/DC	24V AC/DC	6V AC/DC	12V AC/DC	18V AC/DC	24V AC/DC	100/110, 200/220V AC	100/110V AC/DC		
Sta	ndards		•			,	•	_	,				
	Rated Voltage	6.3V-2W	18V-2W	24V-2W	18V	-2W							
효	Operating Voltage	5 to 6V									18V		
La	Base	E12/15 BA9S/13								E12/15			
Built-in	Lamp life	Approx. 1,000 hours minimum (mean value when used on the rated voltage)											
Bui	Part No.	LE-6	LE-8	LE-2	LE-3	LS-6	LS-8	LS-2	LS-3	LE-8			
	No. of Units	1 lamp per window of basic Type F 2 lamps per window of basic Type F 1 lamp per window of basic Type F									w of basic Type F		
Ins	ulation Voltage					100 MΩ (500)	V DC megger) between live	and dead pa	arts			
Die								2500V AC (1 minute) between live and dead parts	2000V AC (1 minute) between live and dead parts				
Operating Temperature						−20 to +40°C (no freezing)							
Sto	rage Temperature		-25 to +60°C (no freezing)										
Ор	erating Humidity				45	to 85% RH (r	no condensati	on) between	live and dead	parts			

LED/Incandescent Illuminated

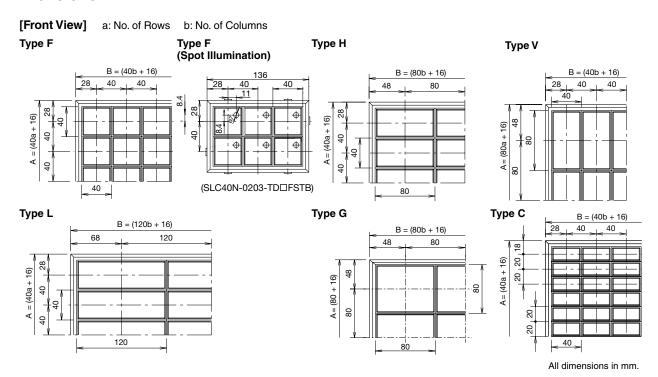
	/inicariacocciit iiii											
Illumi	nation Face	Type F (Note 1) (Basic)	Type C (Split-window)	Туре Н	Type L	Type V	Type G					
	Window (H × W)	40 × 40	20 × 40	40 × 80	40 × 120	80 × 40	80 × 80					
, Chit	Illumination Face (H × W)	37 × 37	17 × 37	37 × 77	37 × 117	77 × 37	77 × 77					
	White color screen, clear marking plate, color screen (H × W × t) Marking Film	35.8 × 35.8 × 1.0	15.8 × 35.8 × 1.0	35.8 × 75.8 × 1.0	35.8 × 115.8 × 1.0	75.8 × 35.8 × 1.0	75.8 × 75.8 × 1.0					
E SS	Marking Film	Applicable	_	_	_	_	_					
=	Engraving Area (white, transparent, color plates)	34 × 34	74 × 34	74 × 74								
Materia	l of Marking Plate & Color Screen	Acrylic										
Lens F	ame Color & Frame Cover Color	Black (Munsell N1.5 equivalent)										
Conn	ection Wire	Solid wire: Ø1.6 × 2, Stranded 2 mm² × 2										
Termi	nal Screw	M3.5 screw, Incandescent resistor: M4 nut, Check terminal: M3										
Degre	e of Protection		IP40 (IEC60529)									
Pollut	on Degree			3	3							

Note 1: Flasher, one-window, pure white illumination, and spot illumination are available in Type F only.

Note 1: Check terminal is for DC input only.

• Terminal cover is available for all incandescent illuminated (see page 26), except for the resistor type.

Dimensions



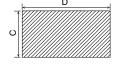
Type F Dimensions & No. of Windows (Type C, H, L, V, and G can be converted into Type F.)

71									` '		, ,									71							
	Colu	mns	b	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Rows	Dimen	sions	В	56	96	136	176	216	256	296	336	376	416	456	496	536	576	616	656	696	736	776	816	856	896	936	976
а	Α	Panel Cut-out (C)	(D)	(45)	(85)	(125)	(165)	(205)	(245)	(285)	(325)	(365)	(405)	(445)	(485)	(525)	(565)	(605)	(645)	(685)	(725)	(765)	(805)	(845)	(885)	(925)	(965)
01	56	(45	5)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
02	96	(85	5)	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
03	136	(12	5)	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72
04	176	(16	5)	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96
05	216	(20	5)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120
06	256	(24	5)	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	_	_	_	
07	296	(28	5)	7	14	21	28	35	42	49	56	63	70	77	84	91	98	105	112	119	126						_

How to Read the Table

- The number of windows equals rows multiplied by columns. For example, for 5 rows by 7 columns, the number of windows is 35, external dimensions are 216mm high by 296mm wide, and panel cut-out is 205mm high by 285mm wide.
- 2. External dimensions are represented by A for rows and B for columns in boldface.
- 3. Panel cut-out dimensions are shown in (), for height (C) and width (D). Panel cut-out tolerance is +1.0 to -0 mm (for one window: +0.6 to -0.4mm).

Panel Cut-out (SLC40)



Determine the panel thickness in consideration of the weight of display lights and wires (see page 26).

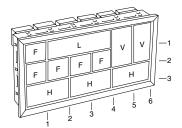
Height: 1 row Width: 3 columns

Width: 2 columns

Height: 2 rows

• Type L — Type F equivalent: 3 windows

• Type G — Type F equivalent: 4 windows



- 4. Total number of windows, dimensions, panel cut-out
- Tor Type C, H, L, V, and G, convert the numbers of rows and columns into Type F (basic size) equivalents.
 - Type C Type F equivalent: 2 split-windows consist of one window.

• Type H — Type F equivalent: 2 windows Height: 1 row

Type V — Type F equivalent: 2 windows.

Height: 2 rows
Width: 1 column

② The combination example at left consists of 3 rows by 6 columns.

Width: 2 columns

③ The above table shows: No. of windows: 18

Dimensions: 136H × 256W mm Panel cut-out: 125H × 245W mm

IDEC

Dimensions

LED Illuminated [Side & Rear Views]

- Full Voltage
- 24V AC/DC

6.69

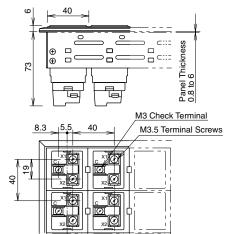
- · One-color full
- For applicable terminal cover, see page 26.
- Spot illumination 24V AC/DC

Full Voltage

Panel Thickness 0.8 to 6

Terminal Screws

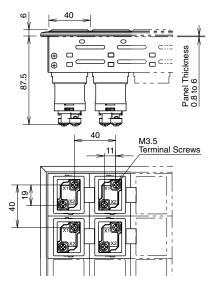
- One-color full
- w/Check Terminal 24V DC
- Two-color alternate 24V AC/DC
- For applicable terminal cover, see page 26.
- Full Voltage
- One-color full
- Flasher 24V DC (Type F only)
- · For applicable terminal cover, see page



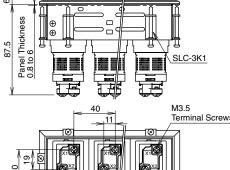
- 87.5 0.8 to 6 Panel . M3.5 Terminal Screws
- w/Check Terminal Terminal X1 is a positive pole; Terminal X2 and C (check terminal) are negative poles.
- Two-color Alternate Terminal X1 is common. Red (R) illumination: Terminal C Green (G) illumination: Terminal X2
- Terminals X1 and X2 are positive and negative poles, respectively.

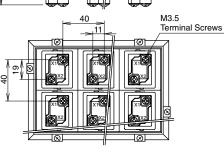
- Transformer
- One-color full
- 100/110, 200/220V AC
- 110VDC (DC-DC Converter)
- Resistor
- One-color full
- 100/110V AC/DC

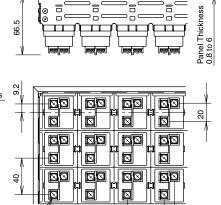
- Type C (split-window)
- Full Voltage6, 12, 24V AC/DC
- One-color full, 2 × LED lamps, Split-window



• On LED illuminated DC-DC Converter type units, Terminals X1 and X2 are positive and negative poles, respectively.







- M3.5 Terminal Screws • Terminal X1 is COM terminal.
- For applicable terminal cover, see page 26.

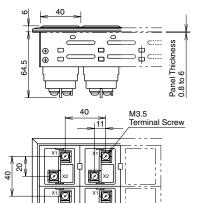
All dimensions in mm.

40

Incandescent Illuminated [Side & Rear Views]

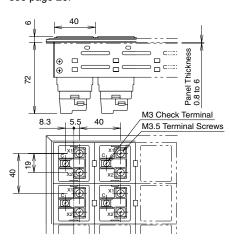
Type F

- Full Voltage6, 12, 18, 24V AC/DC
- One-color full
- · For applicable terminal cover, see page 26.



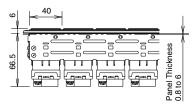
• The dimension of incandescent illuminated 100/110, 200/220V AC is the same as LED illuminated flasher.

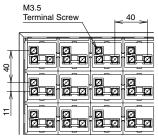
- Full Voltage
- One-color full
- w/Check Terminal
- 6, 12, 24V DC
- · For applicable terminal cover, see page 26.



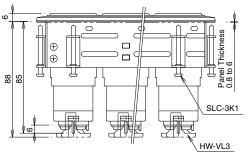
• Incandescent illuminated w/check terminal Terminal X1 and C are positive poles; Terminal X2 is a negative pole.

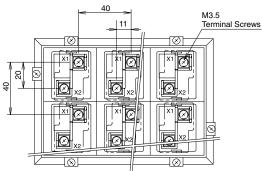
- Full Voltage
- 6, 12, 18, 24V AC/DC
- One-color full
- For applicable terminal cover, see page 26.



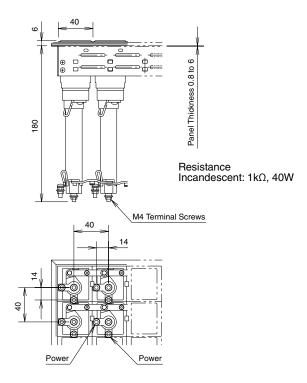


- Transformer
- 100/110, 200/220V AC
- One-color full





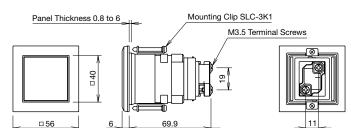
- Resistor100/110V AC/DC
- One-color full

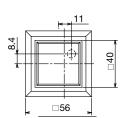


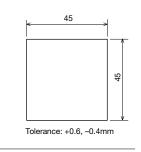
Dimensions

LED Illuminated [One-window, Type F only] Full Voltage 24V AC/DC, One-color Full

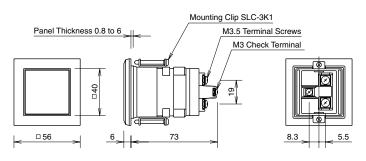
Spot Illumination





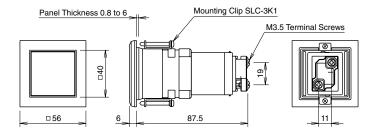


Full Voltage 24V DC, w/Check Terminal Two-color Alternate LED Illuminated 24V AC/DC



- w/Check Terminal
 Terminal X1 is a positive pole; Terminals X2 and
 C (check terminal) are negative poles.
- Two-color Alternate
 Red (R) illumination: X1, C
 Green (G) illumination: X1, X2
- See page 26 for applicable terminal covers.

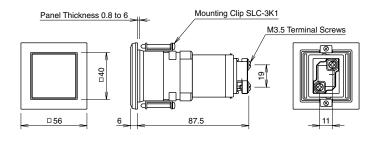
Flasher 24V DC



- On LED illuminated flasher, Terminals X1 and X2 are positive and negative poles, respectively
- X2 are positive and negative poles, respectively.

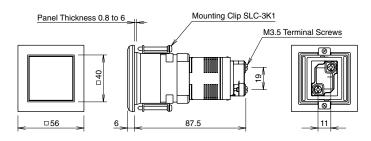
 See page 26 for applicable terminal covers.

Transformer 100/110, 200/220V AC DC-DC Converter 110V DC



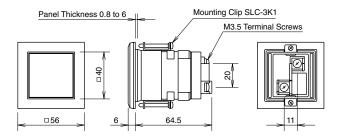
 On LED illuminated DC-DC converter type, Terminals X1 and X2 are positive and negative poles, respectively.

Resistor 100/110V AC/DC

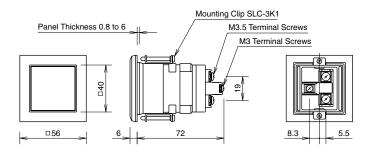


(Resistance) LED illuminated: 4.4 k Ω , 6W

Incandescent Illuminated [One-window, Type F only] Full Voltage 6, 12, 18, 24V AC/DC, One-color Full



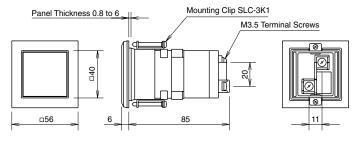
Full Voltage 24V DC, w/Check Terminal, One-color Full



45 45 47 Tolerance: +0.6, -0.4mm

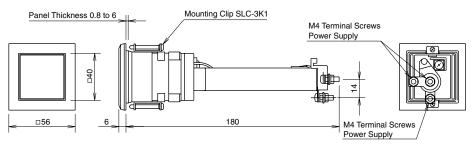
- w/Check Terminal Terminal X1is a positive pole; Terminal X2 and C (check terminal) are negative poles.
- For applicable terminal cover, see page 26.

Transformer 100/110, 200/220V AC, One-color Full



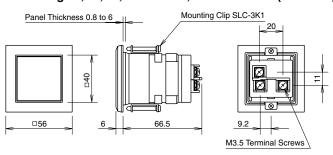
• For applicable terminal cover, see page 26.

Resistor 100/110V AC/DC, One-color Full



(Resistance) Incandescent: 1 k Ω , 40W

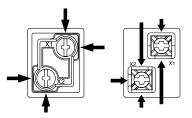
Full Voltage 6, 12, 18, 24V AC/DC, One-color Full (Dual-lamp)



- On dual-lamp, Terminal X1 is a common terminal. Terminals X1 and X2 are interconnected.
- For applicable terminal cover, see page 26.

Terminal Connection (LED Illuminated)

• For check terminal, DC-DC converter, and resistor, Terminals X1 and X2 are positive and negative poles, respectively.

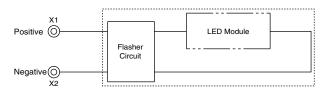


Arrows indicate access direction for wiring terminals.

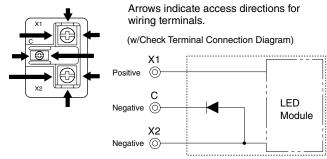
Fingersafe, Spring-up Terminal

Other terminals

(Flasher Connection Diagram)

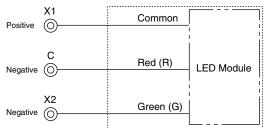


• For w/check terminal and two-color alternate units, Terminal X1 is a positive pole; Terminals X2 and C (check terminal) are negative poles. For two-color alternate, Terminal X1 is common.



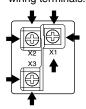
· Connection for Two-color alternate is as follows. Terminal X1 (+) is common (AC/DC). Red (R):Terminal C, Green (G):Terminal X2

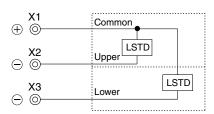
(Two-color alternate Connection Diagram)



• For the LED illuminated split-window (Type C), Terminal X1 (+) is a common terminal. Terminal X2 is for upper illumination and Terminal X3 is for lower illumination (AC/DC).

Arrows indicate access direction for wiring terminals.





(Type C Split-window Connection Diagram)

Recommended tightening torque:

M3.5: 1 to 1.3 N·m 0.6 to 1.0 N·m

Terminal Connection Using Jumpers

• For terminal connection of types F, H, L, V, and G (except Type C) using jumpers, jumpers can be used as shown below.

SLC40 Series

			Terminal X1	Terminal X2	Terminal C
III	ED uminated Note 2)	Fingersafe, Spring-up Terminal (Note 1)	SLCN-JP44 SLCN-JP45	SLCN-JP44 SLCN-JP45	-
		Others	SLC-JP40	SLC-JP41	SLC-JP42
In	candesce	nt Illuminated	SLC-JP40	SLC-JP41	SLC-JP42

Note 1: Fingersafe, spring-up terminals are used in one-color full illuminated (12, 24V AC/DC, 100/110, 200/220V AC, 110V DC).

Note 2: No jumper is used on resistor type.

• For Type C, jumpers can be used on Terminal X1 only as shown below.

Direction	When using Type C only When using Type C and Two-color alternate
Vertical	SLC-JP40
Horizontal	SLC-JP41

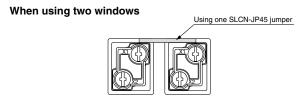
Note: Jumpers cannot be used when using Type C and fingersafe spring-up

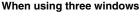
Terminal Connection (Incandescent Illuminated)

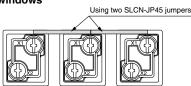
- For incandescent illuminated dual-lamp, terminal X1 is a common terminal. Terminals X2 and X3 are connected with jumpers.
- The incandescent illuminated check terminal is for DC voltage only. Terminal X1 is a positive pole, and terminal X2 is a negative pole. Check terminal is a positive pole.
- Wiring direction for incandescent illuminated check terminals is the same as that of LED illuminated type.

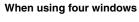
[Examples of Using Jumpers]

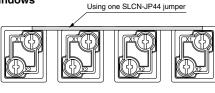
LED Illuminated (fingersafe Spring-up Terminal)











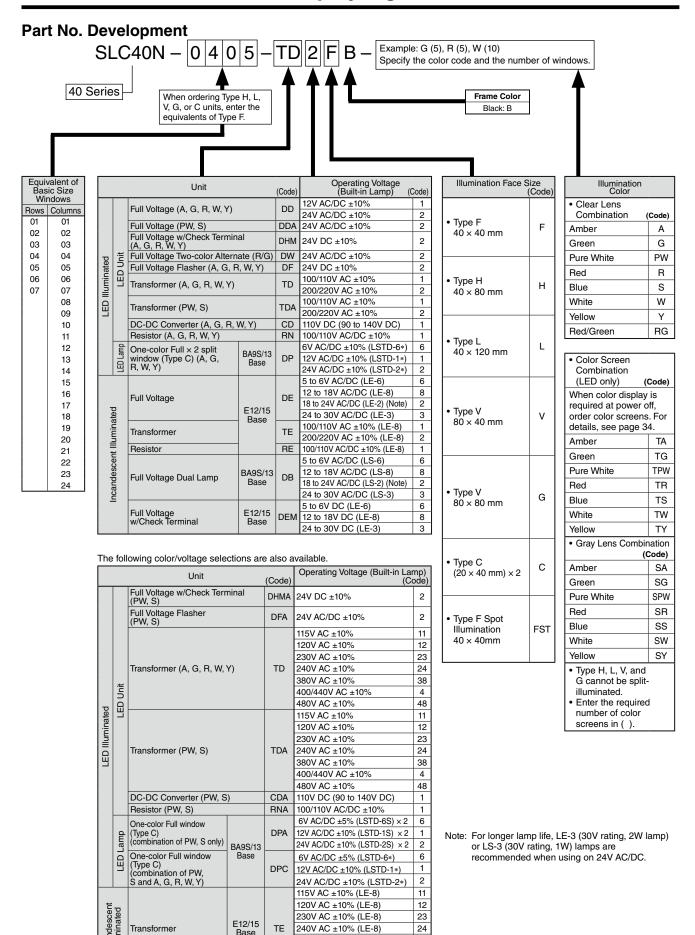




Jumpers (SLCN-JP44/45) have an orientation. Ensure that jumpers are installed correctly.

(14/09/10)

23



(14/09/10)

38

4

48

380V AC ±10% (LE-8)

480V AC ±10% (LE-8)

24

400/440V AC ±10% (LE-8)

Ordering Information

When ordering SLC Series Combination Display Lights, use the specification sheet provided on page 39.

Designation Procedure

- 1. Part No.: Refer to Part No. Development on page 24.
- 2. Quantity: Enter the required number of identical assemblies.

Counting of Windows

Count the number of windows in the equivalent of Type F (basic size).

Leaf Springs

Leaf spring for temporary fastening is not attached, and can be supplied free of charge upon request when ordering (Part No. SLD40KVP).

[Conversion Rate]

• Type H (horizontal)

Type F equivalent: 2 windows Row (1), Column (2)

Type L (horizontal)

Type F equivalent: 3 windows Row (1), Column (3)

• Type V (vertical)

Type F equivalent: 2 windows Row (2), Column (1)

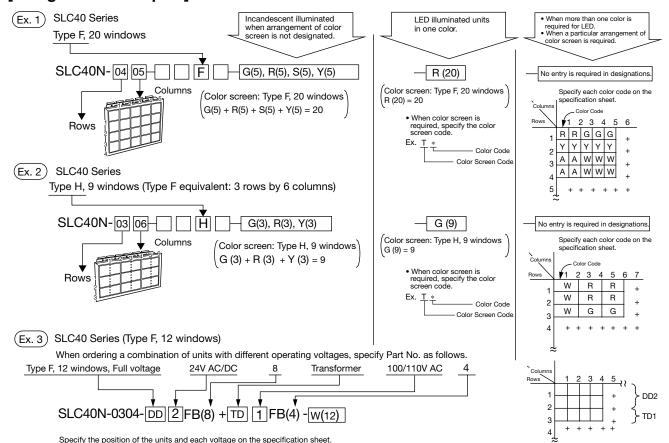
• Type G (large)

Type F equivalent: 4 windows Row (2), Column (2)

• Type C (split-window)

Type F equivalent: 1 window Row (1), Column (1)

[Designation Examples]



(Ex. 4) When ordering a combination of units with different illumination colors, specify Part No. as follows.

Example: Full voltage LED illuminated 24V AC/DC, Red (6), Pure White (2)

 $\frac{\text{SLC40N-}\underline{0204-\text{DD2FB(6)}}}{\text{Red}} + \frac{\text{DDA2FB(2)}}{\text{Pure White}} - \frac{\text{R(6)PW(2)}}{\text{Designation}}$

Designation
Red: 6, Pure White: 2

Specify the position of the units and each color code on the specification sheet.

PW R R R

(Ex. 5) When ordering a combination of units with different illumination colors for four windows of type C, specify Part No. as follows.

Example: Full voltage LED illuminated 24V AC/DC

SLC40N-0202-DPA2CB(1) DPC2CB(3) - R(1)G(1)A(1)S(1)PW(4)

Blue, Pure white

Red, green, Designation amber, pure white Red: 1, green: 1, blue 1, amber 1, pure white 4

Terminal Cover

Ordering Terminal Covers

- The fingersafe, spring-up terminal types have integral covers, and do not require terminal covers.
 Terminals other than fingersafe, spring-up terminals do not have terminal covers and need covers ordered separately.
- Incandescent illuminated resistor type cannot use terminal covers.

Applicable Terminal Covers (Material: PPE)

				· ,	Applicable Te	rminal Covers			When using a
Series		Style	SLC30-VL3	HW-VL3	SLC30-VL5	SLC40-VL5	SLC30-VL6	SLC40-VL6	terminal cover the depth is extended shown as below.
		T	29H × 28W	38H × 26W	29H × 28W	36H × 33.5W	29H × 26W	39H × 28W	
		LED One-color Full w/Check Terminal					Applicable		+5.7 mm
	LED Illuminated	Two-color Alternate					Applicable		+5.7 mm
SLC30	marimacou	Type C (half-type) one color Full × 2			Applicable				+2.5 mm
	Incandescent Illuminated	One-color Full	Applicable						+4.5 mm
		LED One-color Full w/Check Terminal						Applicable	+4.7 mm
	LED Illuminated	Two-color Alternate						Applicable	+4.7 mm
SLC40	marimacou	Type C (half-type) one color Full × 2				Applicable			+3 mm
SLC40		One-color Full		Applicable					+3 mm
	Incandescent Illuminated	One-color Full w/Check Terminal						Applicable	+4.7 mm
		One-color Full Dual-lamp				Applicable			+3 mm

Weight

Approximate weight of SLC combination display lights can be calculated in the formula below.

A × (No. of Rows + No. of Columns) Type F equivalent

 $\mathsf{B} \times \mathsf{No.}$ of Windows Type F equivalent

Frame Weight

Display Weight

		B (including light source)							
Series	A	(Full Voltage) 6V AC/DC 12V AC/DC 24V AC/DC	(Full Voltage) Flasher	(Transformer) 100/110V AC 200/220V AC	(Resistor) 100/110V DC 100/110V AC/DC (Note 2)	(DC-DC Converter) 110V DC	Type C Split-window (Type F equivalent)		
SLC30 (Approx.)	22g	38g	48g	Incandescent: 105g LED: 85g	Incandescent: 72g LED: 47g	54g	46g		
SLC40 (Approx.)	30g	60g	71g	126g	Incandescent: 125g LED: 69g	77g	66g		

Accessories / Replacement Parts

Accessories

Name & Shape	Applicable Model	Part No.	Ordering No.	Package Quantity	Remarks
Spot Illumination Kit for Type F Window White Plate	SLC30N	SLCN-3ST-F2	SLCN-3ST-F2	1	Lens Spot Light Lens White Plate
Clear Plate (supplied with the spot illumination type SLC)	SLC40N	SLCN-4ST-F2	SLCN-4ST-F2	1	
White Screen for Spot Illumination	SLC30N	SLDN-3C-FW-ST1	SLDN-3C-FW-ST1	1	Lens Frame Clear Plate
writte screen for spot illumination	SLC40N	SLDN-4PF-FW-ST1	SLDN-4PF-FW-ST1	1	Matte Surface

Tool Accessories

Name & Shape	Material	Part No.	Ordering No.	Package Quantity	Remarks
Lamp Holder Tool	Rubber	OR-44	OR-44	1	Used for replacing LED lamps (LFTD) for SLC30 Type C (Split-window).
Lamp Holder Tool	Rubber	OR-55	OR-55	1	Used for replacing LED lamps (LSTD) or incandescent lamps (LS, LE).
LED Unit Removal Tool	Metal	MT-101	MT-101	1	Used for removing the LED unit for the SLC30/40 series.
Lens Unit Removal Tool	Rubber (Ring: metal)	MT-S01	MT-S01	1	Used for removing the lens unit.

Marking Plate, Color Screens

Name & Shape	Series	Applicable Window	Dimensions (mm)	Part No.	Ordering No.	Color Code	Package Quantity	
Color Screen		F	27H × 27W × 1.0t		SLDN-3C-*	SLDN-3C-*PN05			
(LED/Incandescent)		H and V	27H × 57W × 1.0t		SLC-3PH-*	SLC-3PH-*PN05			
	SLC30	H (split-window)	27H × 28.5W × 1.0t		SLC-3PH2-*	SLC-3PH2-*PN05			
Ann.		SLC30	SLC30	L	27H × 87W × 1.0t		SLC-3PL-*	SLC-3PL-*PN05	A: Amber C: Clear (clear screen)
400000		G	57H × 57W × 1.0t		SLC-3PG-*	SLC-3PG-*PN05	FW: White (white screen)		
750000		C (LED only)	12H × 27W × 1.0t		SLC-3PC-*	SLC-3PC-*PN05	G: Green R: Red (Type F)	5	
		F	35.8H × 35.8W × 1.0t		SLCN-4PF-*	SLCN-4PF-*PN05	RL: Red (Except Type F) S: Blue Y: Yellow		
A CONTRACTOR OF THE PARTY OF TH		H and V	75.8H × 35.8W × 1.0t		SLC-4PH-*	SLC-4PH-*PN05			
	SLC40	L	35.8H × 115.8W × 1.0t		SLC-4PL-*	SLC-4PL-*PN05			
		G	75.8H × 75.8W × 1.0t		SLC-4PG-*	SLC-4PG-*PN05			
		C (LED only)	15.8H × 35.8W × 1.0t		SLC-4PC-*	SLC-4PC-*PN05			
Black Marking Plate		F	27H × 27W × 1.0t	Acrylic	SLDN-3C-WM	SLDN-3C-WM			
		H and V	27H × 57W × 1.0t		SLC-3PH-FWM	SLC-3PH-FWM			
	01.000	H (split-window)	27H × 28.5W × 1.0t		SLC-3PH2-FWM	SLC-3PH2-FWM			
	SLC30	L	27H × 87W × 1.0t		SLC-3PL-FWM	SLC-3PL-FWM			
		G	57H × 57W × 1.0t		SLC-3PG-FWM	SLC-3PG-FWM			
		C (LED only)	12H × 27W × 1.0t		SLC-3PC-FWM	SLC-3PC-FWM	_	1	
门, Black-		F	35.8H × 35.8W × 1.0t		SLCN-4PF-FWM	SLCN-4PF-FWM			
coated		H and V	75.8H × 35.8W × 1.0t		SLC-4PH-FWM	SLC-4PH-FWM			
	SLC40	L	35.8H × 115.8W × 1.0t	1	SLC-4PL-FWM	SLC-4PL-FWM			
		G	75.8H × 75.8W × 1.0t		SLC-4PG-FWM	SLC-4PG-FWM			
		C (LED only)	15.8H × 35.8W × 1.0t	1	SLC-4PC-FWM	SLC-4PC-FWM			

Note: For insertion order into SLC frames or markings, see operating instructions on page 34 and 35.

Replacement Parts

Lens

Name & Shape	Description	Series	Applicable Window	Dimensions (mm)	Material	Part No.
			F	28H × 28W × 2.8t		SLC-3LF
			H and V	28H × 58W × 2.8t		SLC-3LH
		SLC30	L	28H × 88W × 2.8t		SLC-3LL
			G	58H × 58W × 2.8t		SLC-3LG
	01		C (LED only)	13H × 28W × 2.8t		SLC-3LC
	Clear		F	36.8H × 36.8W × 2.8t		SLC-4LF
			H and V	36.8H × 76.8W × 2.8t		SLC-4LH
		SLC40	L	36.8H × 116.8W × 2.8t		SLC-4LL
ens (LED/Incandescent)			G	76.8H × 76.8W × 2.8t	SLC-4LG	
			C (LED only)	O only) 16.8H × 36.8W × 2.8t Acrylic	A!! -	SLC-4LC
			F	28H × 28W × 2.8t	SLC-3LF-M	
			H and V	28H × 58W × 2.8t	t SLC-4LL SLC-4LG SLC-4LC	
		SLC30	L	28H × 88W × 2.8t		SLC-3LL-M
			G	58H × 58W × 2.8t		SLC-3LL-M
	0		C (LED only)	13H × 28W × 2.8t		SLC-3LC-M
	Gray		F	36.8H × 36.8W × 2.8t		SLC-4LF-M
			H and V	36.8H × 76.8W × 2.8t		SLC-4LH-M
		SLC40	L	36.8H × 116.8W × 2.8t		SLC-4LL-M
			G	76.8H × 76.8W × 2.8t		SLC-4LG-M
			C (LED only)	16.8H × 36.8W × 2.8t	1	SLC-4LC-M

Lens Frame

				Pai	rt No.
Shape	Series	Applicable Window	Material	LED Illuminated	Incandescent Illuminated
		F		SLC-3WF-BL	SLC-3WF-B
For LED		Н	ABS	SLC-3WH-BL	SLC-3WH-B
		H (split-window) (Note)		SLC-3WH2-BL	SLC-3WH2-B
	SLC30	L	PC	SLC-3WL-BL	SLC-3WL-B
		V		SLC-3WV-BL	SLC-3WV-B
For Incandescent		G		SLC-3WG-BL	SLC-3WG-B
		С	ABS	SLC-3WC-BL	_
		F		SLC-4WF-BL	SLC-4WF-B
		Н		SLC-4WH-BL	SLC-4WH-B
	SLC40	L	PC	SLC-4WL-BL	SLC-4WL-B
	SLC40	V		SLC-4WV-BL	SLC-4WV-B
		G	ABS	SLC-4WG-BL	SLC-4WG-B
		С		SLC-4WC-BL	_

Note: A light barrier is supplied.

LED Units

Series & Shape	Illumination	Operating Voltage	Rated Current	Part No.	Ordering No.	Color Code
SLC30		6V AC/DC	Amber, green, red, yellow:12mA White: 21mA	SLDN-36M-*	SLDN-36M-*T	
and a second	One color full	12V AC/DC	Amber, green, red,white, yellow: 12mA	SLDN-31M-*	SLDN-31M-*T	Specify a color
i		24V AC/DC	Amber, red, white: 12mA Blue, green, pure white, yellow: 11mA	SLDN-32M-*	SLDN-32M-*T	code in place of * in the Part No.
Weight: approx. 4.3g	Two-color alternate	24V DC	Red: 12mA/green: 11mA	SLDN-32MW-RG	SLDN-32MW-RGT	A (amber) G (green)
SLC40	One color full	24V AC/DC	Amber, blue, green, pure white, red, yellow, white: 15mA	SLCN-42M-*	SLCN-42M-*T	PW (pure white) R (red) S (blue) W (white)
Weight: approx. 9.2g	Two-color alternate	24V AC/DC	Red: 15mA/green: 15mA	SLCN-42MW-RG	SLCN-42MW-RGT	Y (yellow)

Note: Blue (S) and PW (pure white) are 24V AC/DC only

Replacement Parts

LED Units for Spot Illumination

Series & Shape	Rated Voltage (AC: 50/60 Hz)	Rated Current	Part No.	Ordering No.	Color Code
SLC30 Weight: approx. 4.5g	24V AC/DC	Amber, red, white: 12mA Blue, green, pure white, yellow: 11mA	SLDN-32ST-*	SLDN-32ST-*T	Specify a color code in place of * in the Part No. A (amber)
SLC40 Weight: approx. 9.4g	24V AC/DC	Amber, blue, green, pure white, red, white, yellow: 15mA	SLCN-42ST-*	SLCN-42ST-*T	G (green) PW (pure white) R (red) S (blue) W (white) Y (yellow)

 $[\]bullet$ Used with SLCN-ST-* spot illumination kit. The spot color is same as illumination surface.

LED Lamps

Shape	Operating Voltage		nt Draw	Part No.	Ordering No.	Illumination Color	Package Quantity	Base	
LFTD Lamp (SLC30)	vollage	DC Rating	AC Rating		LETDE	Coloi	Quantity 1		
· · · · · · · · · · · · · · ·	5V DC	8 mA	_	LFTD-5*	LFTD-5*				
					LFTD-5*PN10	Specify a color code in place of * in the Part	10		
	6V AC/DC	7 mA	9 mA (A, R, W, Y)	LFTD-6*	LFTD-6*	No.	1		
2 2	OV AO/BO	7 1112	10 mA (G, S, PW)	LFID-0*	LFTD-6*PN10	A (amber) G (green)	10	SX6S/8	
NI NI	12V AC/DC	8 mA	9 mA	1 FTD 4	LFTD-1*	PW (pure white) R (red)	1	× 5.4	
14.5	12V AC/DC	8 IIIA	9 MA	LFTD-1*	LFTD-1*PN10	S (blue)	10		
1	0.41/4.0/200				LFTD-2*	W (white) Y (yellow)	1		
1	24V AC/DC	8 mA	9 mA	LFTD-2*	LFTD-2*PN10		10		
LSTD Lamp (SLC40)			8 mA	8 mA (A, G, PW, R, S, W) LS	LSTD-6*	LSTD-6*		1	
	6V AC/DC	7 mA (A, R, W) 5.5 mA (G, S, PW)							
A 1 10			(, , , , , , , , , , , , , , , , , , ,		LSTD-6*PN10	A (amber)	10		
(3)					LSTD-1*	G (green)	1		
(20.8)	12V AC/DC	10 mA	11 mA	LSTD-1* LSTD-1*PN10	PW (pure white) (Note) R (red)		BA9S/13		
2.4					LSTD-1*PN10	S (blue)	10		
				LSTD-2*	LSTD-2*	W (white)	1		
Eyelet (x1) Voltage Marking	24V AC/DC	10 mA	11 mA						
Base (x2) BA9S/13					LSTD-2*PN10		10		

Note: For Type C and Yellow (Y) illumination, use yellow (Y) color screen and pure white (PW) LED lamp.

Incandescent Lamps

5	Shape -	Operating Voltage	Ratings	Part No.	Base
LS Lamp	Base BA9S/13	6V AC/DC	1W (6.3V)	LS-6	
		12V AC/DC	1W (18V)	LS-8	BA9S/13
	23.5	18V AC/DC	1W (24V)	LS-2	DA93/13
		24V AC/DC	1W (30V)	LS-3	
LE Lamp	Base E12/15	6V AC/DC	2W (6.3V)	LE-6	
		12V AC/DC	2W (18V)	LE-8	E12/15
5	34 ±2	18V AC/DC	2W (24V)	LE-2	E12/15
	' ' ' ' '	24V AC/DC	2W (30V)	LE-3	

All dimensions in mm.

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Accessories / Replacement Parts

Full Voltage Adapter

Shape	Series	Desc	ription	Part No.
	SLC30	LED		SLDN-3DH
i l	SESSO	Incandescent		SLC-3DS
	- SLC40	LED	One-color Full	SLDN-4DH
	SL040	Incandescent		SLC-4DE

Transformer Unit

Shape	Series	Illumination	Primary Voltage (50/60 Hz)	Applicable LED Unit/ Incandescent Lamp	Part No.
		LED	100/110V AC	01.011.0014	SLDN-3TH1
	01.000	LED	200/220V AC	SLDN-32M-*	SLDN-3TH2
	SLC30	Incandescent	100/110V AC	100	SLC-3TS1
		incandescent	200/220V AC	LS-6	SLC-3TS2
		150	100/110V AC		SLDN-4TH1
	01.040	LED	200/220V AC	SLCN-42M-* SLDN-4TH2	
	SLC40	Incondessent	100/110V AC	LE-6	SLC-4TE1
		Incandescent	200/220V AC	LE-6	SLC-4TE2

Separate Transformer (24V output, LED Unit)

Shape	Primary Voltage	Secondary Voltage	Part No.	Applicable LED Unit/ Lamp
	100/110V AC	0.5W, 24V	TWR512	
30000	200/220V AC	0.5W, 24V	TWR522	See the table below.
CE	400/440V AC	0.5W, 24V	TWR542	

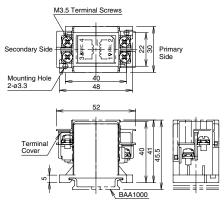
[•] Terminal cover (Part No. TWR-VL3) is supplied as standard.

Applicable LED Unit/Lamp

Series	LE	D Part No.	Applicable Model	
		SLDN-32M-*	One-color full (one unit per transformer)	
SLC30	LED Unit	SLDN-32MW-RG	Two-color alternate (one unit per transform	
	LED Lamp	LFTD-2*	Type C (up to two lamps per transformer)	
	SLCN-42M-*		LED one-color full (one unit per transformer)	
SLC40	LED Unit	SLCN-42MW-RG	Two-color alternate (one unit per transformer)	
	LED Lamp	LSTD-2*	Type C (one unit per transformer)	

[•] Specify a color code in place of *. See page 29.

Dimensions



All dimensions in mm.

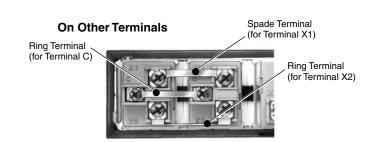
Accessories / Replacement Parts

	Name & Shape	Part No.	Ordering No.	D	escription & Dimensions	Package Quantity
	Ring Terminal (for four windows) Rated Current: 3A	SLCN-JP34	SLCN-JP34PN10	For SLC30 Terminal X1, X2	94.4 13.2 1 3.2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Jumper for fingersafe, Spring-up	(Supplied)	SLCN-JP44	SLCN-JP44PN10	For SLC40 Terminal X1, X2	Part No. L A SLCN-JP34 97.8 30 SLCN-JP44 128 40	
Terminal	Ring Terminal (for 2 windows) Rated Current: 3A	SLCN-JP35	SLCN-JP35PN10	For SLC30 Terminal X1, X2	©4.4 4.9 3.2 3.2	
	(Supplied)	SLCN-JP45	SLCN-JP45PN10	For SLC40 Terminal X1, X2	Part No. L A SLCN-JP35 37.8 30 SLCN-JP45 48 40	
	Spade Terminal Rated Current: 3A	SLC-JP30	SLC-JP30PN10	For SLC30 Terminal X1	A	
	(Supplied) Ring Terminal Rated Current: 3A	SLC-JP40	SLC-JP40PN10	For SLC40 Terminal X1	Part No. L A±0.1 SLCN-JP30 38 30 SLCN-JP40 48 40	10
Jumper for Other		SLC-JP33	SLC-JP33PN10	For SLC30 Terminal X2 or Terminal X1 of Type C	37.8 37.8 24.4 = 30 t = 0.5	
Terminals		SLC-JP41	SLC-JP41PN10	For SLC40 Terminal X2	48 3 t = 0.5	
	Ring Terminal Rated Current: 3A	SLC-JP32	SLC-JP32PN10	For SLC30 Terminal C (check terminal & 2-color alternate)	03.8 0 0 0 0 1 t = 0.5	
	0	SLC-JP42	SLC-JP42PN10	For SLC40 Terminal C (check terminal & 2-color alternate)	Part No. L A±0.1 B SLCN-JP32 37 30 2.5 SLCN-JP42 47 40 2.5	
Mounting Clips SLC-3K1 SLC-3K1PN10 SLC-3K1PN10 SLC-3K1PN10 Used for fastening SLC units to panel cut-out from the rear of the panel. Weight: approx. 4.6g						

All dimensions in mm.

Jumper Application Examples





Safety Precautions

- Turn off the power to the SLC units before installation, removal, wiring, maintenance, or inspection. Before removing the LED units or incandescent lamps, make sure that power is turned off. Failure to turn off the power may cause an electrical shock, create fire hazards, or damage of LED units or incandescent lamps. Do not use the SLC units without the lens, otherwise ingress of foreign objects may cause short circuit, and LED units may be damaged resulting in the deterioration of LED brightness or no
- When lighting the SLC units continuously, observe the conditions described below. If the limits are exceeded, the SLC units may heat up and create fie hazards or damage the SLC units.
- To avoid burning your hand, use the lamp holder tool when replacing incandescent lamps.

- For wiring, use wires of a proper size to meet the voltage and current requirements and tighten the terminal screws to the tightening torque shown below. Loose terminal screws may cause excessive heating, resulting in fire hazards.
- · Do not install or operate the SLC units where the SLC units are subjected to direct sunlight. Excessive heating may create fire hazards or damage the SLC units.
- When replacing LED units, LED lamps, or incandescent lamps, use IDEC products.

Operating Instructions

Notes for Continuous Lighting

Up to 10 SLC units (Type F equivalent) can be lit continuously. When more units are mounted, consider the following restrictions.

LED illuminated full voltage

Incandescent illuminated full voltage

- Do not light more than 40% of the SLC units continuously, and light the units in a checker pattern.
- When more than 40% of the units are lit continuously, limit the lighting duration to 40 minutes. Before lighting the units again, ensure that all units have cooled down.
- · When using 2-color alternate units, do not light the two colors simultaneously.

LED/Incandescent illuminated Transformer and DC-DC converter

· Light the units in a flashing or checker pattern.

When using the SLC units in other conditions, contact IDEC.

Notes for Panel Mounting

• When mounting the SLC units on a panel, determine the panel thickness taking the weights of the SLC units and wires into consideration.

Tightening Torque for Terminal Screws

• For wiring, use wires of a proper size to meet the voltage and current requirements and tighten the terminal screws to the tightening torque shown below.

<u> </u>	
Terminal Screw	Tightening Torque
M3	0.6 to 1.0
M3.5	1.0 to 1.3 N·m
M4	1.4 to 2.0 N·m

<Storage and Handling>

- · Do not use the SLC where it is subjected to condensation caused by extreme temperature change.
- · Do not use chemicals such as alcohol that degrade the property

<Operating Instructions>

- The illumination color may change depending on the decreasing brightness of LED, along with the period of use.
- The SLC can be used indoors only. Do not use outdoors.

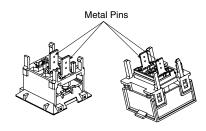
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Operating Instructions

When Using Blue and Green LED Units

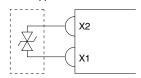
When replacing LED units, avoid ESD to the LED pins, otherwise the internal LED elements may become damaged.



Precautions for Noise

When using the SLC units in an environment where the SLC is subjected to noise, connect a noise suppressor across terminals X1 and X2 as shown below.

Noise Suppressor

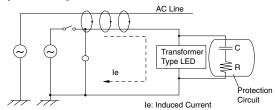


Notes for Using LED Units

Countermeasures against dim lighting

The SLC units contain a provision against dim lighting due to leakage current. If the LED unit appears to be dimly lit due to induced current from nearby AC lines, take appropriate countermeasures as described below.

[Sample Circuit]



[Countermeasure]

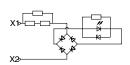
As shown in the diagram above, connect an RC circuit in parallel with the transformer LED unit. For the values of the resistor and capacitor, see the following table.

Operating Voltage		Capacitor C	Resistor R	
		(μF)	(Ω)	(W)
SLC30	100/110V AC (50/60 Hz)	0.33	120	0.25
SLUSU	200/220V AC (50/60 Hz)	0.10	120	0.25
SLC40	100/110V AC (50/60 Hz)	0.22	120	0.25
	200/220V AC (50/60 Hz)	0.10	120	0.25

LED Unit Internal Circuit

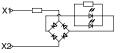
SLC30 Series

- SLDN-36M-* (6V AC/DC)
- SLDN-31M-* (12V AC/DC) One-color full (amber, green, red, yellow)



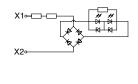
- SLDN-36M-W (6V AC/DC) One-color full (white)

 - SLDN-31M-W (12V AC/DC) One-color full (white)



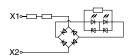


- SLDN-32M-* (24V AC/DC) One-color full (amber, blue, green, red, yellow)
- SLDN-32-W (24V AC/DC) SLDN-32MW-RG One-color full (white) (24V AC/DC) Two-color alternate
 - X1 -
- SLDN-32ST-* (24V AC/DC) Spot illumination

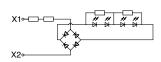


SLC40 Series

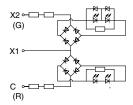
• SLDN-42M-* (24V AC/DC) One-color full (amber, blue, green, red, yellow)



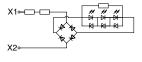
• SLDN-42-W (24V AC/DC) • SLDN-42MW-RG One-color full (white)



(24V AC/DC) Two-color alternate



• SLDN-42ST-* (24V AC/DC) Spot illumination



Operating Instructions

Type F, H, H2, L, V, G

Display Color Type	Light Source	Marking Plate/ Color Screen (Note 1) (Note 2)	Lens		ON Color (Color Code)	OFF Color
	SLC30 SLC40	Matte Surface		red (R), w red/green), blue (S), green (G), pure white (PW) (Type F only), rhite (W), yellow (Y) (two-color alternate) (RG) (no spot illumination sen two-color alternate)	
	LED unit	clear / white	clear lens			
Standard (using clear lens)	SLC30 SLC40	Matte Surface		amber (A), blue (S), green (G), red (R), yellow (Y) (Note 3)		White
	Incandescent lamp	color / white	clear lens			
	SLC30 SLC40	Mattle Surface		white (W)		
	Incandescent lamp	clear / white	clear lens			
	SLC30 SLC40			amber (TA), blue (TS), green (TG), red (TR), yellow (TY),		
Color Screen	LED unit	white / color	clear lens			Same as
Color Screen	SLC30 SLC40	Matte Surface		pure white (TPW, Type F only), white (TW)		ON color
	LED unit	clear / white	clear lens			
	SLC30 SLC40	Matte Surface			amber (SA), blue (SS), green (SG), pure white (SPW, Type F only), red (SR), white (SW), yellow (SY)	
Gray Lens	LED unit	clear / black (Note 5)	gray lens	Logond	Land	
(Note 4)	SLC30 SLC40	Matte Surface		Legend Color	amber (SA), blue (SS), green (SG), red (SR), white (SW), yellow (SY)	Gray
	Incandescent lamp	color* / black (Note 5) (* clear for white (SW))	gray lens			

Type C (split-window)

Display Color Type	Light Source	Marking Plate/ Color Screen (Note 1) (Note 2)		ON Color (Color Code)		OFF Color	
Standard	SLC30 SLC40 LED lamp	Matte Surface	clear lens	amber (A), blue (S), green (G), red (R), yellow (Y) (Note 3)		White	
(using clear lens)	SLC30 SLC40 LED lamp	Matte Surface White / clear	clear lens	pure white (PW), white (W)		White	
Gray Lens	SLC30 SLC40 LED lamp color / black (Note 5) gray lens SLC30 SLC40 LED lamp clear / black (Note 5) gray lens			amber (SA), blue (SS), green (SG), red (SR), yellow (SY)		- Gray	
(Note 4)			Color	pure white (SPW), white (SW)			

Note 1: Place the marking plate and color screen with the matte surfaces facing each other. The insertion order can be interchanged if necessary. Engrave on the flat surface of the screen/plate next to the lens.

Note 2: See page 27 for ordering the screen/plate as replacement parts.

Note 3: When color screen display (color shown when OFF) is necessary, change the insertion order of screen/plate as follows.

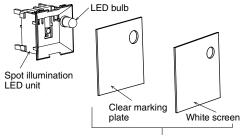
amber (A), blue (S), green (G), red (R), yellow (Y): light source → white plate → color screen → clear lens

Note 4: When ON: legends shown in the specified color on gray lens. When OFF: no legends shown on gray lens. Gray lens, black marking plate, and clear or color screen are used.

Note 5: Black marking plate has black coating. Engrave a reverse legend on the black-coated surface.

Type F Spot Illumination

Spot illumination LED unit and spot illumination kit are used.



Type F spot illumination kit (Supplied with the supot illumination type SLC. See page page 27 for details.)

Marking on Films

In addition to white color screens or clear marking plates, legends can be engraved on thin marking films on Type F windows. Two sheets of 0.1-mm-thick films or one sheet of 0.2-mm-thick films is applicable. Marking films are not supplied with the SLC units and must be prepared by the user.

Dimensions

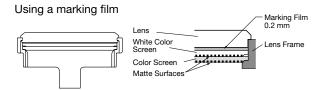
SLC30N: 27 × 27 mm SLC40N: 35.8 × 35.8 mm

Film Material

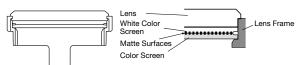
Polyester is recommended.

Placement of Marking Film

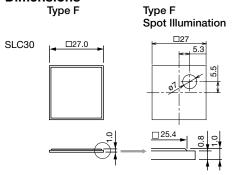
When using a marking film, place the matte surfaces of the marking plate and color screen in the same direction to make a room of 0.2 mm for the marking film (matte surfaces are not facing each other). When not using a marking film, face the matte surfaces of marking plate and color screen each other.



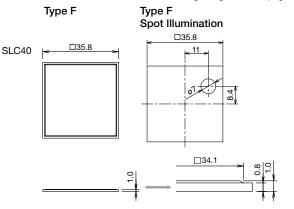
Not using a marking film



Color Screen/White Color Screen/Clear Screen Dimensions



For engraving area, see page 7.



For engraving area, see page 17.

Operating Instructions

Removing the Windows

SLC30 Series

To remove the display window, insert the tip of a flat screwdriver into the slot on the bottom of the lens frame, and press down lightly on the screwdriver as shown.

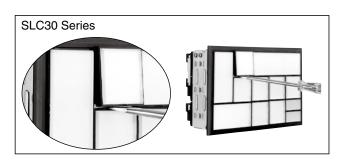
For types G and V, do not put excessive force to remove one latch while pressing the other latch on the opposite side.

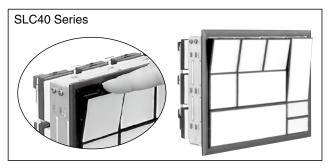
SLC40 Series (Extensible Windows)

The extensible window, featured on all SLC40 series units except Types C, G, and L, can be removed simply by pulling the upper portion out of the housing. For Types C, G, and L, insert the tip of a flat screwdriver into the slot on the bottom of he lens frame, and press up lightly.

When installing Type C windows, face the retaining latch with ${\sf TOP}$ marking upward.

All windows are shipped with the window retracted. After the windows are installed in a panel, they can be extended as required starting from the lowest row to the top row. Beware of the orientation when installing the units. When transporting the units, hold all windows in the retracted position.





Maximum Number of Windows SLC30 Series

LED Unit

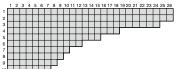
 Full Voltage, w/Check Terminal, 2-color Alternate Up to 10 rows/26 columns (windows must be 200 at maximum)



200 windows maximum

LED Unit

 Transformer, Flasher, DC-DC Converter, Resistor Up to 10 rows/26 columns (windows must be 75 at maximum)



75 windows maximum

Incandescent Lamp

• Full Voltage Up to 10 rows/20 columns



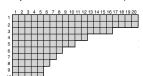
200 windows maximum

LED Lamp (Type C)

• Full Voltage

Incandescent Lamp

Transformer, Resistor
 Up to 10 rows/20 columns (windows must be 50 at maximum)



50 windows maximum

SLC40 Series

LED Unit

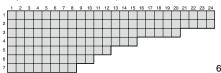
• Full Voltage, w/Check Terminal, 2-color Alternate Up to 7 rows/24 columns (windows must be 126 at maximum)



126 windows maximum

LED Unit

 Transformer, Flasher, DC-DC Converter, Resistor Up to 7 rows/24 columns (windows must be 60 at maximum)



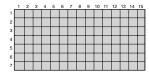
60 windows maximum

LED Lamp (Type C)

Full Voltage

Incandescent Lamp

• Full Voltage, w/Check Terminal, 2-color Alternate Up to 7 rows/15 columns

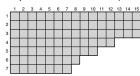


105 windows maximum

Incandescent Lamp

• Transformer, Resistor

Up to 7 rows/15 columns (windows must be 50 at maximum



50 windows maximum

Replacing Lens, Marking Plate, and Color Screen

[Removal]

The lens has retaining projections (one or two each on right and left sides). To remove the lens, marking plate, and color screen from the lens frame, push open the lens frame with both hands as shown.

The lens can also be removed by inserting a screwdriver into one of the sides with recesses. Sine the lens has an orientation due to projections, be sure to insert the screwdriver in the direction as shown.

Note: Take care not to damage or scratch the lens surface.





Retaining Projections Location

Series	Type F, G	Type C	Type H	Type L	Type V
SLC30 Series	Latch Session H		Latch	Latch	Recesses
SLC40 Series (Extensible Windows)	Extension Ridges	Not Extensible	Extension Ridges	Latches Not Extensible	Extension Ridges

[Installation]

Install the color screen and marking plate into the lens frame.

To install the lens, insert its retaining projections into the recesses inside the lens frame, and press the lens on the other side into the lens frame.





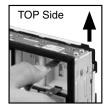
Replacing the LED Unit

Ensure that power to the display lights has been turned off before removing the LED un...

[Removal]

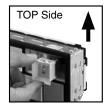
Use the LED unit removal tool (MT-101) to pull out the LED unit. For SLC30 units, pinch the top and bottom sides of the unit. For SLC40 units, pinch the right and left sides of the unit.

Note: When removing the LED unit from the housing, pull it out straight without pressing on the LED unit terminals.



[Installation]

The LED unit has an orientation. To install the LED unit, place the metal pins on the LED unit to fit into the receptacles in the housing, and insert the LED unit.



LED Unit Color Identification

Each LED unit has part no. and identification mark stamped.

Color	Codo	Mark	Appea	arance
Color	Code	Iviark	SLC30	SLC40
Red	R	● Red dot		
Green	G	● Green dot		
Amber	Α	• Amber dot		
Blue	S	● Blue dot		

ı	Color	Codo	Mark	Appea	rance
	Color	Code	Mark	SLC30	SLC40
	Yellow	Y	P (Note)		
	White	w	W		
	Pure White	PW	Р		
	Red/ Green	RG	_		

Note: Yellow (Y) LED unit uses a pure white LED unit with a yellow filter on the LED.

Replacing LED Lamps

SLC30, Type C

[Removal]

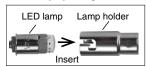
Push lamp holder tool OR-44 into the LED lamp kit, and push and turn clockwise to remove the lamp from the lamp holder.





[Installation]

Insert the lamp into the lamp holder completely (lamps can be installed easily by using the handle part of lamp holder tool).





Insert the lamp holder tool into the lamp holder.



Align the insertion guides of the lamp holder with the grooves in the SLC unit. Push the lamp lightly and turn clockwise to install.

SLC40, Type C

Lamps can be replaced easily by using the lamp holder tool OR-55. When removing the lamp, reflector does not have to be removed.

Installation on Panel

Insert the units into a panel cut-out from the front, and install the mounting clips supplied with the units from the back as shown below. Apply loctite on the screws to prevent loosening. The number of mounting screws varies with the number of windows.

Tighten the screws to a torque of 0.39 N·m to 0.49 N·m.

Example of Mounting Clip Positions (=)

Columns	1	2	3 to 8	9 to 15	16 to 22	23 to 26
1 to 2		(Note)				
3			<u>ر</u>	 	<u> </u>	
4 to 6		Ļ			<u> </u>	L
7 to 10						

Note: See below for Type V.





38

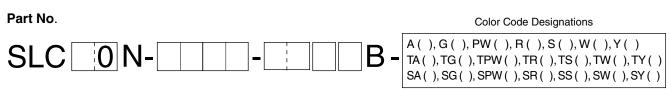
No. of Mounting Clips

Columns	1 to 2	3 to 8	9 to 15	16 to 22	23 to 26
1 to 2	2	4 (6)	6 (8)	8	10
3 to 6	4 (6)	6 (8)	8 (10)	10 (12)	12 (14)
7 to 10	6 (8)	8 (10)	10 (12)	12	14

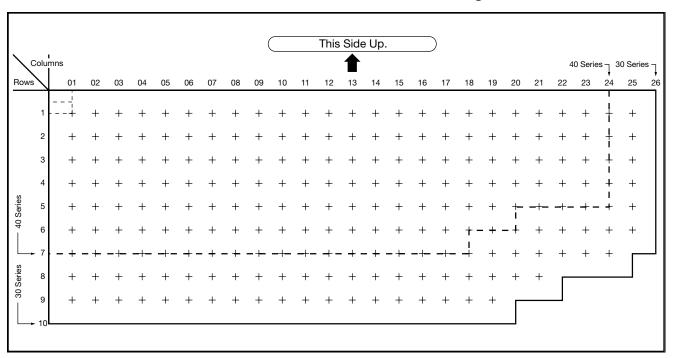
Note: Numbers in () show the number of mounting clips required for transformer, resistor, flicker, and DC-DC converter.

SLC30/40 Series Combination Display Lights Specification Sheet

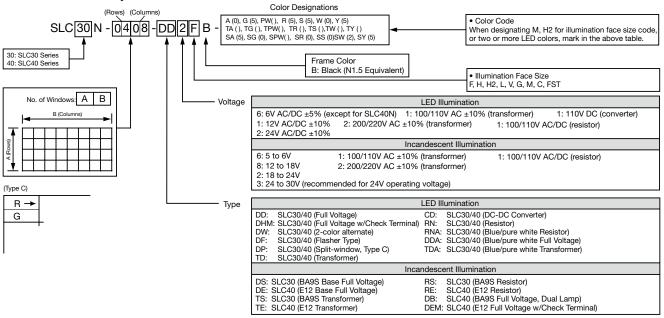
Date of Order	
Customer	
Address	
Phone No.	
Contact	



Illumination Face Size & Color Screen Code Designations



Part No. Development



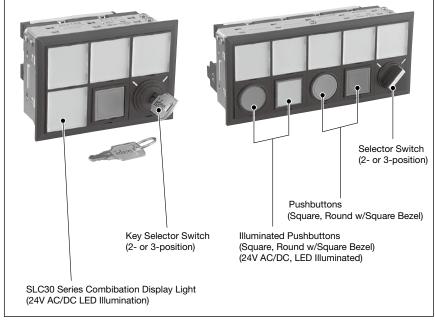
SLC30 Series Combination Display with Control Units

Combination of display lights and control units reduce labor of switch installation and minimizes installation space.

Switch for lamp test, external switch for system display can be integrated into the frame of

combination display lights.

- Various control units can be installed in the window frame, with or without SLC units.
- Panel space can be reduced.
- Labor and time to install switches can be reduced.
- Flexibility of panel design is maximized.
- Up to 30 windows (3 rows x 10 columns) can be used.



Combination Display Lights

- LED Illumination
- One-color Full, Type F (30 × 30mm)
- Operating voltage: 24V AC/DC
- · Illumination color:

Amber (A), Blue (S), Green (G), Pure White (PW), Red (R), White (W), Yellow (Y)

• Frame color: Black (B)

Control Unit (SLC30-LW)

Pushbutton (Square, Round w/Square Bezel)

- Contact: DPDT (gold or silver)
- Operation: Momentary
- Button color:

Black (B), Green (G), Red (R), Blue (S), White (W), Yellow (Y)

Illuminated Pushbutton (Square, Round w/Square Bezel)

- Contact: DPDT (gold or silver)
- Operation: Momentary
- Illumination color:

Amber (A), Green (G), Pure White (PW), Red (R), Blue (S), White (W), Yellow (Y)

Selector Switch (Round w/Square Bezel) Key Selector Switch (Round w/Square Bezel)

- Contact: DPDT (gold or silver)
- Operation: 2 or 3-position, maintained

	Operator Position and Contact Operation									
Operation Angle	▼ Left	↑ Center	Right							
90° 2-position	Left Contact Right Contact NO NC NO NC C		Left Contact Right Contact NO NC NO NC O C							
45° 3-position	Left Contact Right Contact NO NC NO NC	Left Contact Right Contact NO NC NO NC	Left Contact Right Contact NO NC NO NC							

Specifications

Connection Wire	SLC30: Solid wire Ø1.6 × 2 Stranded wire 2 mm² × 2 SLC-LW: Stranded wire 1.25 mm² maximum					
Terminal Screw	SLC30: M3.5 SLC30-LW: M3.0					
Insulation Resistance	100 MΩ minimum (500V DC megger)					
	SLC30: 2000V AC, 1 minute					
Dielectric Strength	SLC30-LW: 2500V AC, 1 minute (between terminals of the same pole: 1000V AC, 1 minute)					
Operating Temperature	−20 to 40°C (no freezing)					
Storage Temperature	−25 to +60°C (no freezing)					
Operating Humidity	45 to 85% RH (no condensation)					

Contact Ratings

Rated Insulation Voltage	250V AC/DC
Rated Current	Gold contact: 3A Silver contact: 5A
Operating Voltage/Current	Gold contact: 125V AC/0.1A, 30V DC/0.1A (resistive load) Silver contact: 125V AC/3A, 250V AC/2A 30V DC/2A, 125V DC/0.4A (resistive load)

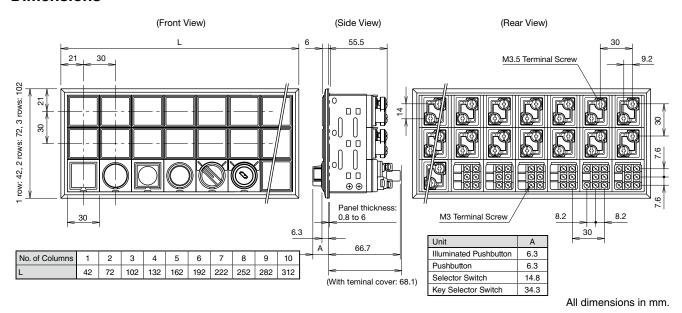
Combination Display Light Ratings

Operating Voltage	24V AC/DC	
Rated Current	Amber, red, white : Blue, green, pure white, yellow:	12 mA 11 mA

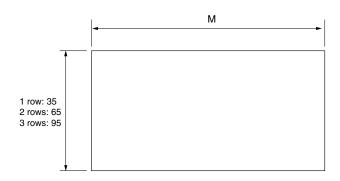
40 IDEC (14/09/10)

SLC30 Series Combination Display with Control Units

Dimensions



Panel Cut-out



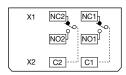
No. of Columns	1	2	3	4	5	6	7	8	9	10
M (mm)	35	65	95	125	155	185	215	245	275	305

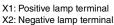
Panel Cut-out (Bottom View)

SLC30

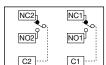
Illuminated Pushbutton







Pushbutton Selector Switch Key Selector Switch



North of the college of the co

Ordering Information

- 1. When ordering, complete the Specification Sheet on page 39.
- Control units (SLC30-LW) can be mounted on the bottom row only.
- Jumpers (SLCN-JP34/-JP35) are used between combination display lights only. Jumpers can not be used between control units, or between control units and combination display lights.
- 4. See page 27 to 29 for accessories.
- 5. Minimum unit size is 2 × 1 windows.

Safety Precautions

See page 32.

Operating Instructions

- When using the insulation terminal cover (LW-VL2M) for the control units
 - Install the terminal cover on the SLC units before wiring. Terminal covers cannot be installed after wiring.
 - Ring crimping terminals cannot be installed when terminal covers are used. Use spade terminals or wire directly.
- Do not remove the operator part of control units from the housing. Otherwise contacts may malfunction.
- 3. On key selector switches, do not attempt to remove the key at any key retained position with excessive force (more than approx. 70N). Otherwise the operator part detaches from the housing, causing the contacts to malfunction.
- 4. Use a lamp holder tool (OR-55) when replacing lamps for control units.
- For wiring, use wires of a proper size to meet the voltage and current requirements. Tighten the M3.5 terminal screws to a tightening torque shown below.

Terminal Screw	Recommended Tightening Torque						
M3	0.6 to 1.0 N·m						
M3.5	1.0 to 1.3 N·m						

- 6. Up to 10 SLC units (Type F equivalent) can be lit continuously. When more units are mounted, consider the following restrictions.
 - Do not light more than 40% of the SLC units continuously, and light the units in a checker pattern.
 - When more than 40% of the units are lit continuously, limit the lighting duration to 40 minutes. Before lighting the units again, ensure that all units have cooled down.
- For other operating instructions of display lights, see the relevant pages of SLC30/40 catalog.
- 8. For other operating instructions of control units, see the relevant pages of Ø22 LW control unit catalog.

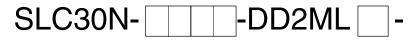
(14/09/10)

SLC30 Series Combination Display with Control Units

SLC30/40 Series Combination Display Lights with Control Units Specification Sheet

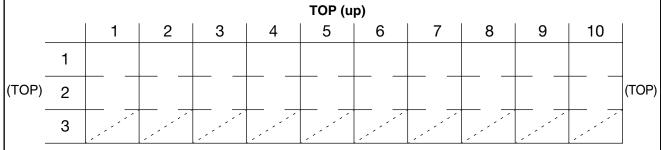
Date of Order	
Customer	
Address	
Phone No.	
Contact	

Part No.



For illumination color and control unit, enter your requirements in the diagram below.

Illumination Color & Control Unit Specification



(Bottom Row)

Specification Notes

- 1. Use the specification diagram above for LED one-color Full (24V AC/DC) only.
- Control units can be mounted on the bottom row (the third row in the diagram above) only. Enter button or lens color code in the upper part and control unit code in the lower part (see the table below for control unit code). Display lights can be specified on the bottom row.

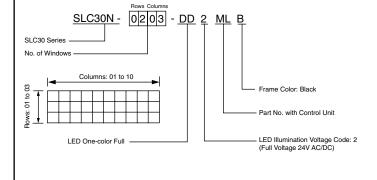


3. Specify the TOP position (mounted onto the panel).

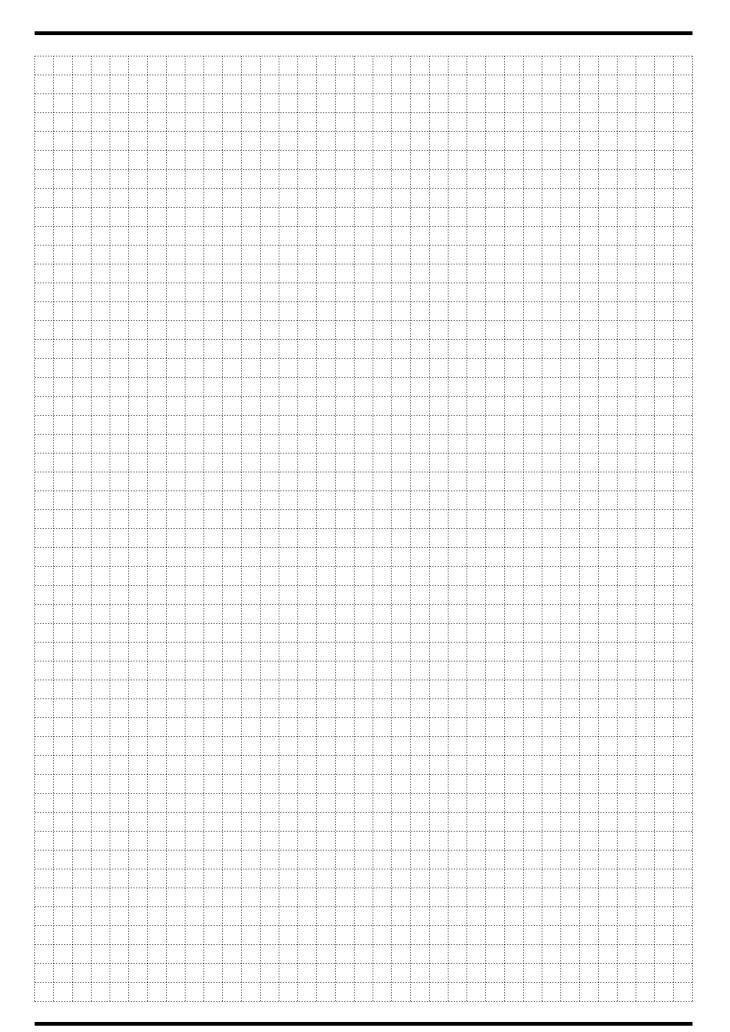
Control Unit Code

Code	Style (gold contact)	Code	Style (silver contact)
1	Square Illuminated Pushbutton (DPDT)	2	Square Illuminated Pushbutton (DPDT)
3	Round w/Square Bezel Illuminated Pushbutton (DPDT)	4	Round w/Square Bezel Illuminated Pushbutton (DPDT)
5	Square Pushbutton (DPDT)	6	Square Pushbutton (DPDT)
7	Round w/Square Bezel Pushbutton (DPDT)	8	Round w/Square Bezel Pushbutton (DPDT)
9	Selector Switch (2-position)	10	Selector Switch (2-position)
11	Selector Switch (3-position)	12	Selector Switch (3-position)
13*	Key Selector Switch (2-position)	14*	Key Selector Switch (2-position)
15*	Key Selector Switch (3-position)	16*	Key Selector Switch (3-position)

^{*} Refer to the below table for key retaining positions.



Key Coo	ie	Α		Е	3	С	;							
2-position Maintain	on ned	$_{igotimes}$	P Q		Q R L		®	(L) (C) (R): Key can be released from these positions and the control of the cont						positions.
Key Coo	ie	A		В С		;	D		Е		G		Н	
3-position Maintair	on ned	QOB Q		Q [©]	R	r ©	®	_ © √	R	Q C B		$\mathbb{Q} \xrightarrow{C} R$		L C ®
											то	P (u	p)	
				1		2		3		4		5		
		1												
TOP		2		R		Υ		G						_
		3	^	13B	A	3	R	5	<i>,</i>		, '	. 7		
-							-	'						



Specifications and other descriptions in this brochure are subject to change without notice.



IDEC CORPORATION

6-64, Nishi-Miyahara 2-Chome, Yodogawa-ku, Osaka 532-0004, Japan Tel: +81-6-6398-2527, Fax: +81-6-6398-2547 E-mail: marketing@idec.co.jp

IDEC CORPORATION (USA) 1175 Elko Drive, Sunnyvale, CA 94089-2209, USA Tel: +1-408-747-0550 / (800) 262-IDEC (4332) Fax: +1-408-744-9055 / (800) 635-6246 E-mail: opencontact@idec.com

IDEC CANADA LIMITED

3155 Pepper Mill Court, Unit 4
Mississauga, Ontario, L5L 4X7, Canada
Tei: +1-905-890-8561, Toll Free: (800) 262-IDEC (4332)
Fax: +1-905-890-8562
E-mail: sales@ca.idec.com

IDEC AUSTRALIA PTY. LTD.

Unit 17, 104 Ferntree Gully Road, Oakleigh, Victoria 3166, Australia Tel: +61-3-8523-5900, Toll Free: 1800-68-4332 Fax: +61-3-8523-5999 E-mail: sales@au.idec.com

IDEC ELECTRONICS LIMITED Unit 2, Beechwood, Chineham Business Park, Basingstoke, Hampshire RG24 8WA, UK Tel: +44-1256-321000, Fax: +44-1256-327755 E-mail: sales@uk.idec.com

IDEC ELEKTROTECHNIK GmbH Wendenstrasse 331, 20537 Hamburg, Germany Tel: +49-40-25 30 54 - 0, Fax: +49-40-25 30 54 - 24 E-mail: service@idec.de

IDEC (SHANGHAI) CORPORATION Room 701-702 Chong Hing Finance Center, No. 288 Nanjing Road West, Shanghai 200003, PRC Tel: +86-21-6135-1515

Fax: +86-21-6135-6225 / +86-21-6135-6226 E-mail: idec@cn.idec.com

Tipe: (BEJJING) CORPORATION
Room 211B, Tower B, The Grand Pacific Building,
8A Guanghua Road, Chaoyang District,
Beijing 100026, PRC
Tel: +86-10-6581-6131, Fax: +86-10-6581-5119

IDEC (SHENZHEN) CORPORATION Unit AB-3B2, Tian Xiang Building, Tian'an Cyber Park, Fu Tian District, Shenzhen, Guang Dong 518040, PRC Tel: +86-755-8356-2977, Fax: +86-755-8356-2944

IDEC IZUMI (H.K.) CO., LTD. Unit G & H, 26/F., MG Tower, No. 133 Hoi Bun Road, Kwun Tong, Kowloon,

Hong Kong
Tel: +852-2803-8989, Fax: +852-2565-0171
E-mail: info@hk.idec.com

IDEC TAIWAN CORPORATION 8F-1, No. 79, Hsin Tai Wu Road, Sec. 1, Hsi-Chih District, 22101 New Taipei City, Taiwan Tel: +886-2-2698-3929, Fax: +886-2-2698-3931 E-mail: service@tw.idec.com

IDEC IZUMI ASIA PTE. LTD. No. 31, Tannery Lane #05-01, HB Centre 2, Singapore 347788 Tel: +65-6746-1155, Fax: +65-6844-5995 E-mail: info@sg.idec.com

DEC ASIA (THAILAND) CO.,LTD.
20th Fl., Sorachai Bldg., No.23/78,
Soi Sukhumvit 63, Sukhumvit Rd.,
Klongton-nua, Wattana, Bangkok 10110
Tel: +662-392-9768, Fax: +662-392-9768
E-mail: sales@th idee-com

www.idec.com

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E-mail: sales@th.idec.com