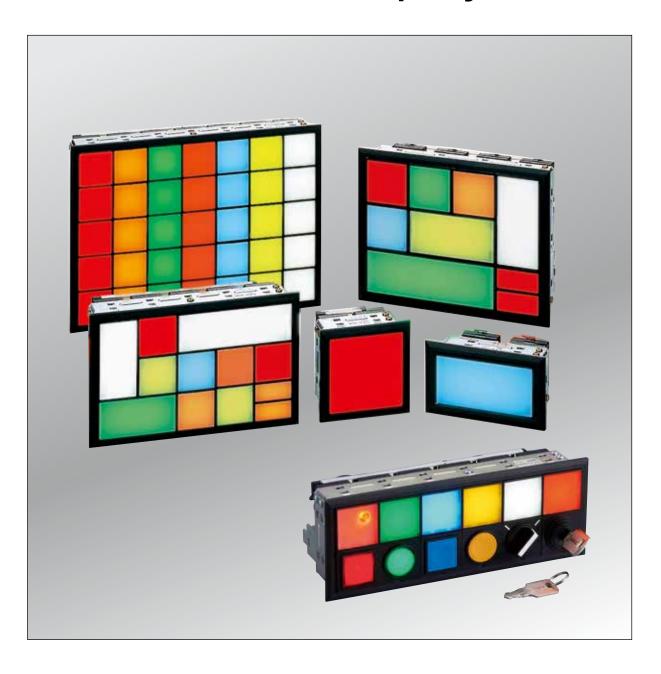


SLC Series Combination Display Units



SLC30/40 Series Combination Display Lights Selection Guide

Series											
Model			SLC30								
Shape		An example of 15-window combin Spot illumination is available with Type F only.	nation								
		Type F (spot illumination) T (LED only)	Type C Type H (full) Type L Type H2 (2-way split)	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	on 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	on 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	Screw	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 and 100)		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 termina	ıl, 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

	SI C Series Combin	nation Display Lights	
		C40	
An example of 12-window of Spot illumination is available with Type F only.			
Type F (Basic Size)	Type F (spot illumination) Type C Type C	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
		Type F (40 × 40r Type H (40 × 80r Type L (40 × 120r Type V (80 × 40r Type G (80 × 80r Type C (20 × 40r	mm) Omm) nm)
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)
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, Check	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 r Jumper available	ecognize at high places. luminated only), check terminal, 🔃	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	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 Pr	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)





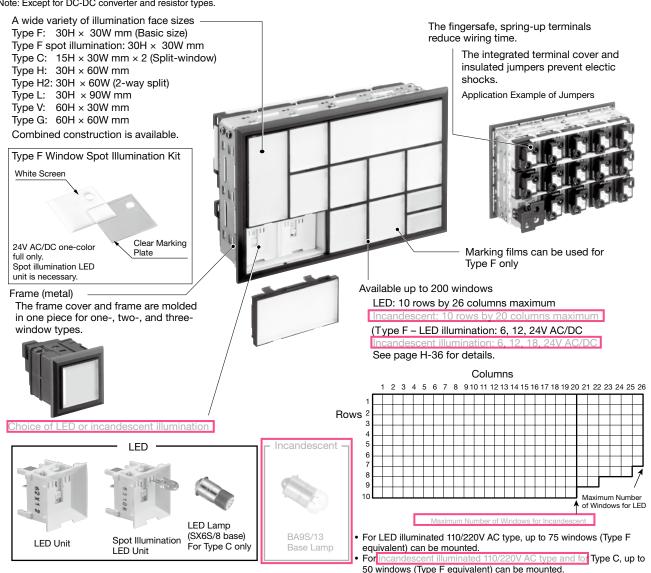
Highly bright "Super LED" unit improves visibility and safety.

- 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)

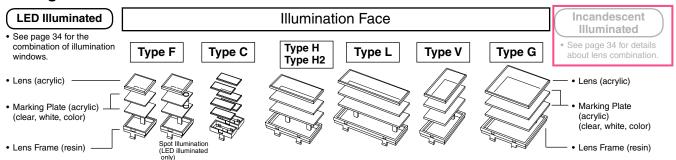
Note: Except for DC-DC converter and resistor types.



Lighting limitations should be considered in any application.

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)	OFF Color
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	amber (A), blue (S), green (G), red (R), yellow (Y),	White
16113)	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		black (Note 4) / clear	Gray Lens	Lens: Legend gray 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 (using clear		color / white	Clear	amber	per (A), blue (S), green (G), red (R), yellow (Y),					
lens)		clear / white	Lens	pure w	ure white (PW), white (W)					
COIOI Gray II agend		Legend	amber (SA), blue (SS), green (SG), red (SR), yellow (SY),	Grov						
Gray Lens		black (Note 2) / Lens gray Color pure white (SPW), white (SW)		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



LED Unit

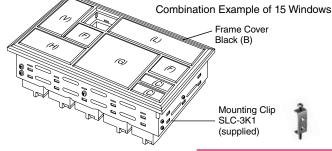


LED Unit for



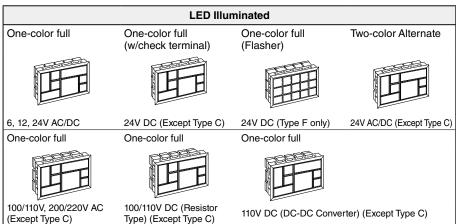
· LED Lamp (for Type C only, SX6S/8 base) (2 lamps for 1 window equivalent to Type F)





Frame Cover Black (B) Mounting Clip SLC-3K1 (supplied)





- 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).





Specifications

LED Illuminated

Lig	ht Sourc	ce				LE	ED Unit					LED Lamp				
Inp	ut				Full Voltage			Transformer	DC-DC Converter	Resistor		Full Voltage				
Illu	mination	n	One-color	One-color w/check termin	nal (Note 1)	Two-color Alternate	Flasher		One-color		One-color × 2 Split-window (Type C)					
	gersafe minal	Spring-up	Provided (except for chec	k terminal)	(Note 2)	Provided		Provided		(Note 2)					
	ted Volta 0: 50/60F		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%	100/110V AC ±10%			V AC/DC 12V AC/DC 24V AC/I ±10% ±10% ±10%				
	ximum (w (VA)	Current		Same as inte	rnal LED Unit		0.5W + internal LED	1.7	1.4	1.5	San	ne as internal	LED			
Illu	mination	n Color	Amber, gree yel		Amber, blue, green, pure white, red, white, yellow	Red/green Alternate	Amber	, blue, green, pure	white, red, whi	te, yellow	pui	nber, blue, gre re white (Note ed, white, yello	8),			
Sta	ndards				UL, c-UL liste	ed, EN complia	nt		-	_		_				
	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			
	_ ± Ar	mber, red	12 mA	12 mA	12 mA (Note 6)			12 mA (I								
ᇣ	Rated Current	/hite	21 mA	12 mA	12 mA (Note 6)	Red: 12 mA Green: 11 mA		12 mA (I	7 mA	8 mA	8 mA					
Unit/Lamp	E Blu	ue, green, ıre white, yellow	12 mA	12 mA	11 mA (Note 6)	Green: 11 mA		11 mA (I	(Note 7)	(Note 7)	(Note 7)					
믭	Illumina (code)	ation Color	Amber (A), blu white (PW), v	ue (S), green (G white (W), yellov), red (R), pure v (Y) (Note 5)	Red (R)/ green (G)	pure v	Amber (A), blue white (PW), red (R	Amber (A), blue (S), green (G), pure white (PW), red (R), white (W)							
Built-in	Base					Plug-	in unit type		SX6S/8							
Buil	LED Life	e (reference)			Approx. 50,0	00 hours (whe	n used on com	plete DC, luminan	ce reduces to 5	0% of the initial	intensity)					
	Part No	lo.	SLDN-36M-*	SLDN-31M-*	SLDN-32M-*	SLDN-32MW-RG		SLDN-	32M-*		LFTD-6*	LFTD-1*	LFTD-2*			
	No. of I	Units			1	LED unit per w	indow of basic	Type F			1 LED lan	np per split-wi	indow type			
	shing Pe	eriod		-	_		0.5 ±0.2 sec		_		_					
Ins	ulation F	Resistance				100 N	IΩ between liv	e and dead parts	(500V DC meg	ger)						
Die	lectric S	Strength	2000V AC	(1 minute) bet	ween live and	dead parts		2500V AC (1 minut reen live and dead		2000V AC (1 minute)	2000V AC (1 minute) between live and dead parts					
	erating nperatur	re (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 Ter	mperature					−25 to +60°C (no freezing)									
Ор	erating I	Humidity					45 to 85	% RH (no conden	sation)							
Sne	cify a co	olor code in i	nlace 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.

Note 8: Use pure white LED lamp for yellow (Y) illumination.

NOIG 4.	NO II EEZII IG			NOIC	b. Ose pure write LLD	iamp for yellow (1) illumination.							
Incar	ndescent Illum	ninated											
	Illumination		One Full \	One-color Transformer	One-color Resistor								
Rated V	oltage (AC: 50/60Hz)	6V AC/DC	12V AC/DC 18V AC/DC 24V AC/DC			100/110, 200/220V AC 50/60 Hz	100/110V AC/DC						
Illumina	ation Color			Amber, blue,	green, red, white, yello	W							
	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-3	LS-6	LS-8						
	No. of Lamps	1 lamp per window of basic Type F											
Insulati	on Voltage	100 M Ω between live and dead parts (500V DC megger)											
Dielect	ric Strength	2000V AC (1 minute) between live and dead parts 2500V AC (1 minute) between live and dead parts 2500V AC (1 minute) between live and dead parts between live and dea											
Operating Temperature				-20 to -	+40°C (no freezing)								
Storage Temperature			-25 to +60°C (no freezing)										
Operat	ing Humidity		45 to 85% RH (no condensation)										
Termina	I cover is available for	all incandescent illumi	nated types (see page 2)	ge 26), except for the resistor type.									

LED/Incandescent Illuminated

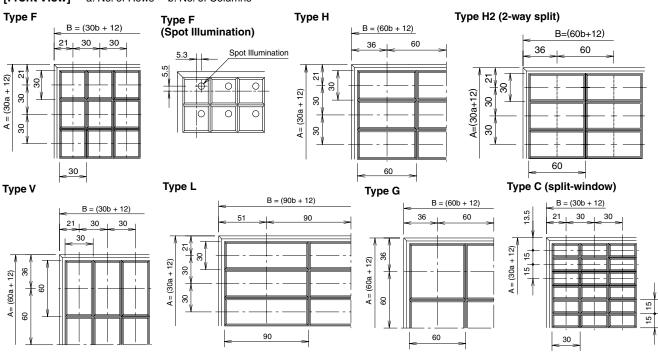
	Illumination Face	Type F (Note 1, 2) (Basic)	Type C (Split-window)	Type H / Type H2 (Note 3)	Type L	Type V	Type G					
	Window (H × W)	30 × 30	15 × 30	30 × 60	30 × 90	60 × 30	60 × 60					
Ξ	Illumination Face (H × W)	28 × 28	13 × 28	28 × 58	28 × 88	58 × 28	58 × 58					
عَ إِذِ ا	White color screen, clear 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					
Siz	Marking Film	Applicable	_	_	_	_	_					
	Engraving Area (white, transparent, color plates)	25 × 25	10 × 25	25 × 55	25 × 85	55 × 25	55 × 55					
Mater Scree	ial of Marking Plate & Color n	Acrylic										
Lens F	rame Color & Frame Cover Color			Black (Munsell I	N1.5 equivalent)							
Conn	ection Wire			Solid wire: ø1.6 x 2,	Stranded 2 mm ² × 2							
Terminal Screw M3.5 screw, Incandescent resistor: M4 nut, Check terminal: M3												
Degree of Protection IP40 (IEC 60529)												
Pollution 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

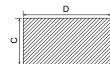


Type F Dimensions & No. of Windows (Type C, H, L, V, and G can be converted into Type F.)

																					-	•	•						
	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

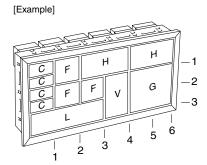
- The number of windows equals rows multiplied by columns. For example, for 5 rows by 7 columns, the number of windows is 35, external dimensions are 162mm high by 22mm wide, and panel cut-out is 155mm high by 215mm wide.
- 2. External dimensions are represented by A for rows and B for columns in boldface.
- 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
- ① 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.
- 3 The above table shows: No. of windows: 18

Dimensions: $102H \times 192W$ mm Panel cut-out: $95H \times 185W$ mm

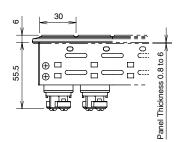
(/////////	
• Type L — Type F	equivalent: 3 windows Height: 1 row Width: 3 columns
• Type G — Type F	equivalent: 4 windows Height: 2 rows Width: 2 columns

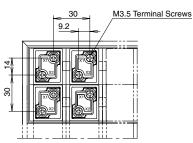
Dimensions

LED Illuminated [Side & Rear Views]

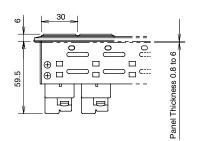
Type F (Type H, L, V, and G are the same in side and rear views as Type F.)

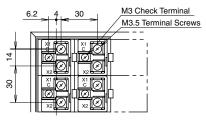
- 6, 12, 24V AC/DC
- One-color full
- Spot Illumination 24V AC/DC





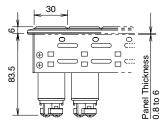
- Full Voltage
- One-color full w/Check Terminal 24V DC
- Two-color alternate 24V AC/DC
- For applicable terminal cover, see page 26.

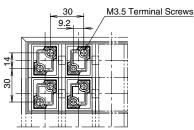




- w/Check Terminal Terminal X1 is a positive pole; Terminal X2 and C (check terminal) are negative poles.
- Two-color Alternate Red (R) illumination: X1 positive, C negative Green (G) illumination: X1 positive, X2 negative

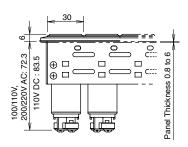
- Full Voltage
- One-color full
- Flasher Type (Type F only)
 For applicable terminal cover, see page 26.

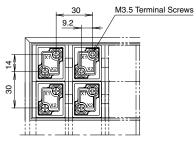




Terminals X1 and X2 are positive and negative poles, respectively.

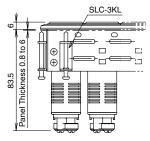
- Transformer
- · One-color full
- 100/110, 200/220V AC/DC
- 110VDC (DC-DC Converter)

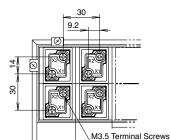




• On LED illuminated DC-DC Converter type units, Terminals X1 and X2 are positive and negative poles, respectively.

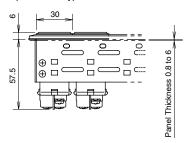
- Resistor
- One-color full
- 100/110V AC/DC

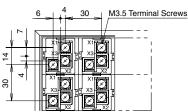




Type C (split-window)

- 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.

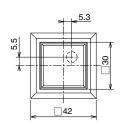


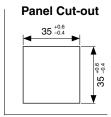
Dimensions

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

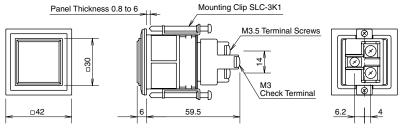
Panel Thickness 0.8 to 6 Mounting Clip SLC-3K1 M3.5 Terminal Screws 142 6 55.5 9.2

Spot Illumination



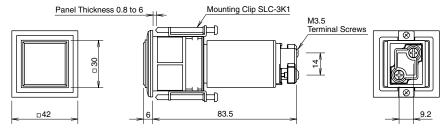


Full Voltage w/Check Terminal 24V DC / Two-color Alternate 24V AC/DC



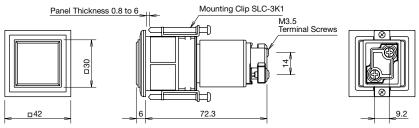
- w/Check Terminal Type Terminal X1 is a positive pole; Terminals X2 and C (check terminal) are negative poles.
- Two-color Alternate Type
 Red (R) illumination: X1 positive, C negative
 Green (G) illumination: X1 positive, X2 negative
- See page 26 for terminal covers.

Flasher 24V DC

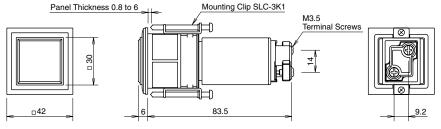


- On LED illuminated flasher type, Terminals X1 and X2 are positive and negative poles, respectively.
- See page 26 for terminal covers.

Transformer 100/110, 200/220V AC

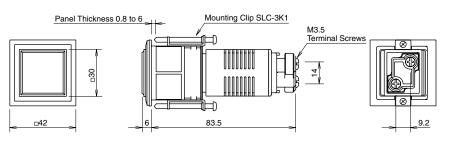


DC-DC Converter 110V DC



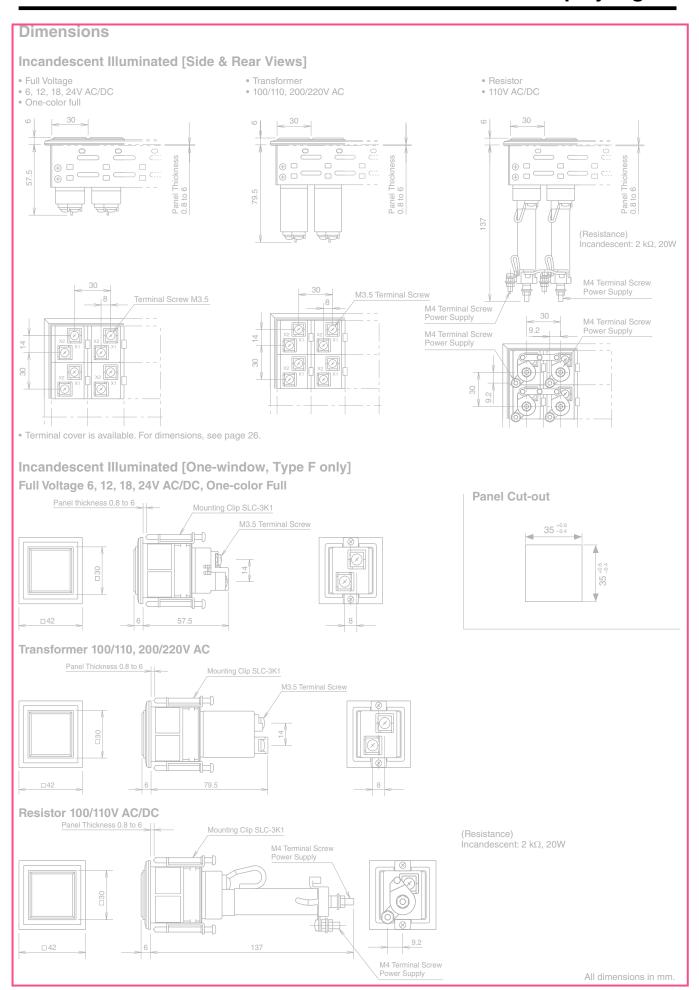
 On LED illuminated DC-DC converter type, Terminals X1 and X2 are positive and negative poles, respectively.

Resistor 100/110V AC/DC



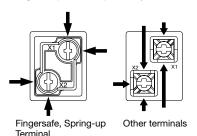
(Resistance) LED illuminated type: 7.2 k Ω , 4W





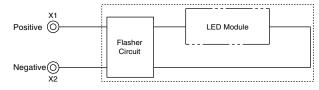
Terminal Connection (LED Illuminated)

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

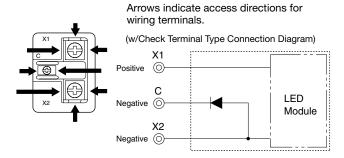


Arrows indicate access directions for wiring terminals.

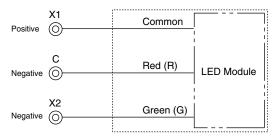
(Flasher Type Connection Diagram)



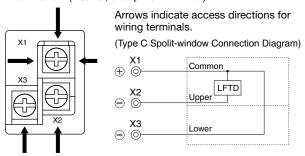
 For w/check terminal and two-color alternate units, terminal X1 is a positive pole; Terminals X2 and C (check terminal) are negative poles.



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. (AC/DC, except for LFTD-5*)



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	Fingersafe, Spring-up Terminal (Note 1)	SLCN-JP34 SLCN-JP35	SLCN-JP34 SLCN-JP35	_
	(Note 2)	Others	SLC-JP30	SLC-JP33	SLC-JP32
ſ	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).

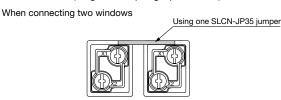
 For Type C, jumpers can be used on Terminal X1 only as shown below.

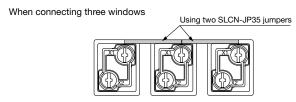
Direction	When using Type C only When using Type C and Two-color alternate
Vertical	SLC-JP33
Horizontal	SLC-JP30

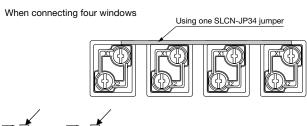
Note: Jumpers cannot be used when using both Type C and fingersafe spring-up terminals.

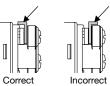
[Examples of Using Jumpers]

LED Illuminated (Fingersafe Spring-up Terminal)

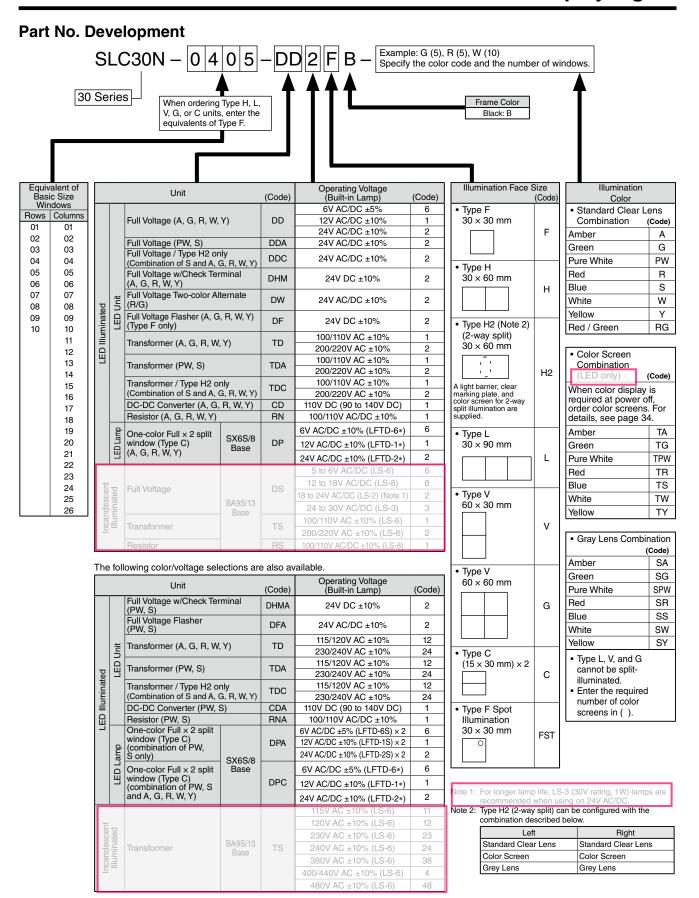








Jumpers (SLCN-JP34/35) have an orientation. Ensure that jumpers are installed correctly.



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]

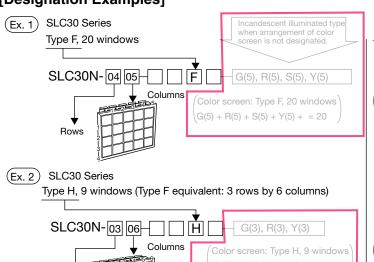
- Type H (horizontal)
 - Type F equivalent: 2 windows Row (1), Column (2)
- Type L (horizontal)
 - Type F equivalent: 3 windows Row (1), Column (3)
- Type V (vertical)
 - Type F equivalent: 2 windows Row (2), Column (1)
- Type G (large)
 - Type F equivalent: 4 windows Row (2), Column (2)

LED illuminated units

R (20)

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

[Designation Examples]



Color screen: Type F, 20 windows R(20) = 20 When color screen is required, specify the color screen code. - Color Screen Code No entry is required in designations. Specify each color code on the specification sheet Color Code 2 3 4 RRRRR GGGGG YYYY 3 AAAAAA

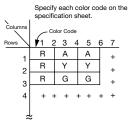
When more than one color is required for LED.
 When a particular arrangeme color screen is required.

G(3) + R(3) + Y(3) = 9

R (9) Color screen: Type H, 9 windows R(9) = 9

When color screen is required, specify the color screen code.

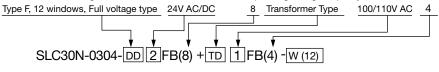
Color Screen Code



No entry is required in designations.

SLC30 Series (Type F, 12 windows) (Ex. 3)

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



DD2

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

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

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

SLC30N-0204-DD2FB(6) + DDA2FB(2) - R(6)PW(2) Pure White Red Designation Specify the position of the units and each color code on the specification sheet.

PW R R R PW R R R

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

Red: 6, Pure White: 2

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

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	511 US	UL/c-UL Recognized File No. E68961
EN60947-1 EN60947-5-1		TÜV SÜD
(Note)	CE	EU Low Voltage Directive

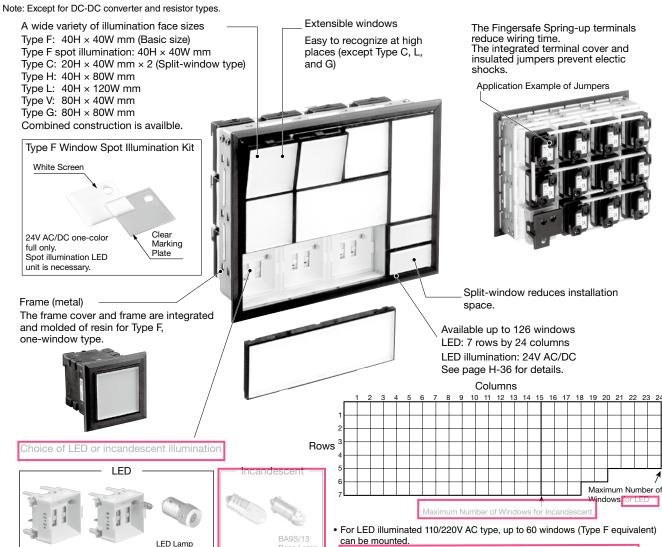
An Example of 12-window size Spot illumination is available with type F only. Type L Type V Type G (spot illumination

Spot Illumination

LED Unit

(BA9S/13 base)

For Type C only



equivalent) can be mounted.

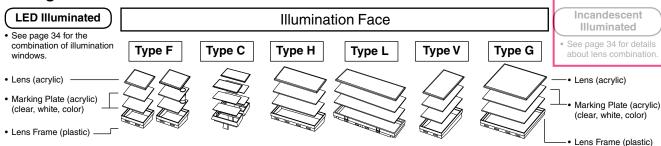
For details, see page 32.

For Type C

valent) can be mounted. For Type C, up to 105 windows (Type F

Lighting limitations should be considered in any applications.

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)	OFF Color				
Standard	LED Unit	clear / white				reen (G), pure white (PW) (Note 1), red (R), white (W), yellow (Y), rnate (RG) (Note 2)	White				
(using clear lens)	Incandescent	color / white	Clear	amber (A	mber (A), blue (S), green (G), red (R), yellow (Y),						
ieris)	Lamp	clear / white	Lens	white (W	hite (W)						
Color Screen	LED Unit	color / white		amber (TA), blue (TS		Same as ON color				
Gray Lens	LED Unit black (Note 4) /		Gray	Lens:	amber (SA), blue (SS), green (SG), pure white (SPW) (Note 1), red (SR), white (SW yellow (SY)		Gray				
Giay Lens	Incandescent Lamp	clear `		gray	Color	white (SW)	Glay				

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.

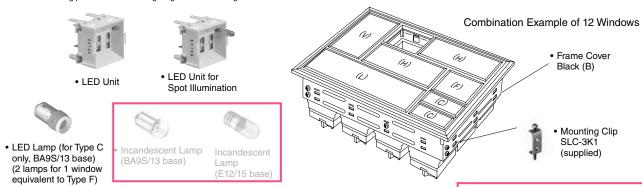
Type C (split-window)

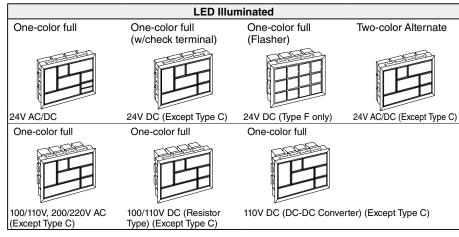
Display Color Type	Light Source	Marking Plate/Color Screen (one each) (Note 1)	Lens				OFF Color			
Standard		color / white	Clear	amber (A	n), blue (S), g	reen (G), red (R), yellow (Y),	White			
(using clear lens)	LED Lamp	his als (Nista O) / and an		pure whit	oure white (PW), white (W)					
Croy Long				Lens:	Legend	amber (SA), blue (SS), green (SG), red (SR), yellow (SY),	Gray			
Gray Lens			Color	pure white (SPW), white (SW),						

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

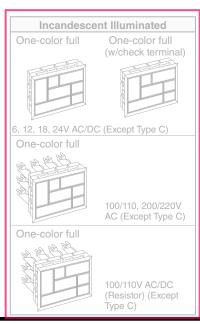
Marking plate/color screen are interchangeable. Engrave markings on the flat surface of the plate or screen next to the lens.

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

Ligl	ht Source			LED Unit					LED Lamp				
Inp	ut	Full V	oltage		Transformer	DC-DC Converter	Resistor		Full Voltage				
Illui	mination	One-color One-color w/check terminal (Note 1)	Two-color Alternate	Flasher Type	One-color	One-color	One-color		One-color × 2 Split-window Type (Type C)				
	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%	±10% (90 to 140V)/220V AC		6V AC/DC 12V AC/DC 24 ±10%		24V AC/DC ±10%			
	ximum Current w (VA)	Same as internal LED	unit	_	4.7	1.8	2.4	Same	as internal LE	D lamp			
Illui	mination Color	Amber, blue, green, pure white, red, white, yellow	Red/green Alternate	Ambe	er, blue, green, pu	re white, red, whi	ite, yellow		nber, blue, gre				
Sta	ndards	UL, c-	UL listed, EN con	npliant			_		_				
	Rated Voltage	24V AC/DC	24V AC/DC		24V	AC/DC		6V AC/DC	12V AC/DC	24V AC/DC			
	Amber							7 mA					
	हि Blue, Pure White					5.5 mA							
Unit/Lamp	Blue, Pure White (Note 7) Blue, Pure White A Blue, Pure White White	15 mA (Note 5)	15 mA (Note 5) Red: 15 mA Green: 15 mA 15 mA						10 mA	10 mA			
ĬΈ	White White	, ,	, ,	Green: 15 MA				7 mA					
۱	Yellow					5.5 mA							
in LED	Illumination Color (code)	Amber (A), blue (S), green (G), pure white (PW), red (R), white (W), yellow (Y)	Red (R)/ green (G)	Ambe	er (A), blue (S), gr	ite (PW),	Amber (A), blue (S), green (G), pure white (PW) (Note 6), red (R), white (W), Y (vellow)						
Built-in	LED Life (reference)		0 ()	rs (when used or	(),	(), , ()	to 50% of the initial		((), . ()/			
В	Base	r	· · · · ·	unit type (for SL					BA9S/13 base)			
	Part No.	SLCN-42M-*	SLCN-42MW-RG			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 ote 3)	_		0.5 ±0.2s		_			_				
Ins	ulation Resistance				100 MΩ (500V D	C megger)							
Die	lectric Strength	2000V AC (1 minut between live and dead			500V AC (1 minut	2000V AC (1 minute)	2000V AC (1 minute) between live and dead parts						
Oper	rating 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											
Ор	erating Humidity			45	to 85% RH (no c	ondensation)							
C	cify a color code in	-1											

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.

In	candescent III	luminate	ed											
Inp	ut				Full V	oltage				Transformer	Resistor			
Illu	mination	One-	One- color w/Chec	color k Terminal (N	ote 1)		One- Dual-	color lamp		One-color				
Rat	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	andards							_						
	Rated Voltage	6.3V-2W	18V-2W	24V-2W	30V-2W	6.3V·1W	18V-1W	24V-1W	30V-1W	18V	·2W			
du de	Operating Voltage	5 to 6V	12 to 18V	18 to 24V	24 to 30V	5 to 6V	12 to 18V	18 to 24V	24 to 30V	12 to	18V			
La	Base		E12	2/15			BA9	S/13		E12	2/15			
프	Lamp life Part No.				Approx. 1,	000 hours mi	nimum (mear	value when	used on the r	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 la	mp per windo	w of basic Ty	pe F	2 lar	nps per windo	ow of basic Ty	pe F	1 lamp per window of basic Type F				
Ins	ulation Voltage					100 MΩ (500V DC megger) between live and dead parts								
Die	electric Strength			2000V AC (1 minute) bet	ween live and	d dead parts			2500V AC (1 minute) between live and dead parts	2000V AC (1 minute) between live and dead parts			
Ор	erating Temperature						-20 to +40°	C (no freezin	g)					
Sto	orage Temperature				-25 to +60°	C (no freezin	g)							
Operating Humidity 45 to 85% RH (no condensation) between live and dead parts														
	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.													

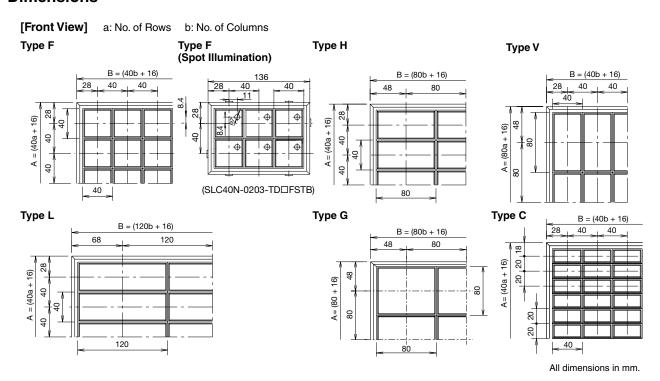
LED Incandescent Illuminated

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					
ΙĦ	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)	35.8 × 35.8 × 1.0	35.8 × 35.8 × 1.0		35.8 × 115.8 × 1.0	75.8 × 35.8 × 1.0	75.8 × 75.8 × 1.0					
imn	Marking Film	Applicable	_	_	_	_	_					
≡	Engraving Area (white, transparent, color plates)	34 × 34	14 × 34	34 × 74	34 × 114	74 × 34	74 × 74					
Materia	al of Marking Plate & Color Screen	Acrylic										
Lens F	rame Color & Frame Cover Color	Black (Munsell N1.5 equivalent)										
Conn	ection Wire		Solid wire: Ø1.6 × 2, Stranded 2 mm² × 2									
Term	inal Screw		M3.5	screw, Incandescent resis	tor: M4 nut. Check termin	al: M3						
Degr	ee of Protection	IP40 (IEC60529)										
Pollu	tion Degree	3										

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



Dimensions



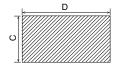
Type F Dimensions & No. of Windows (Type C, H, L, V, and G can be converted into Type F.)

	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	A	Panel Cut-out	(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).

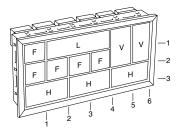
Height: 1 row Width: 3 columns

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
- ① 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
- 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



Dimensions

LED Illuminated [Side & Rear Views]

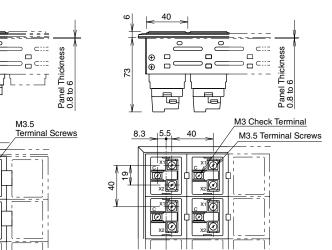
- Full Voltage
- 24V AC/DC

6.69

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

_ °

- Full Voltage
- 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

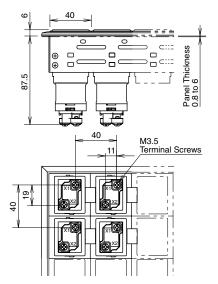


- 87.5 0.8 to 6 Panel . M3.5 Terminal Screws
- w/Check Terminal Terminal X1 is a positive pole; Terminal X2 and C (check terminal) are negative poles.
- Two-color Alternate Terminal X1 is common. Red (R) illumination: Terminal C Green (G) illumination: Terminal X2
- Terminals X1 and X2 are positive and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

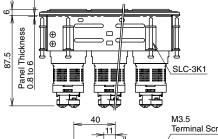
- Transformer
- One-color full
- 100/110, 200/220V AC
- 110VDC (DC-DC Converter)
- Resistor
- One-color full
- 100/110V AC/DC

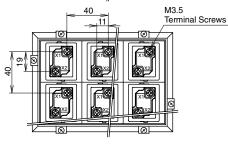


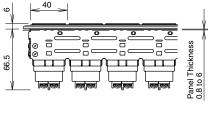
- Full Voltage6, 12, 24V AC/DC
- One-color full, 2 × LED lamps, Split-window

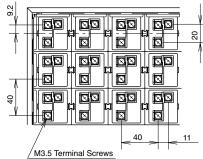


• On LED illuminated DC-DC Converter type units, Terminals X1 and X2 are positive and negative poles, respectively.









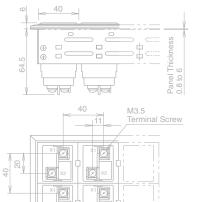
- Terminal X1 is COM terminal.
- For applicable terminal cover, see page 26.



Incandescent Illuminated [Side & Rear Views]

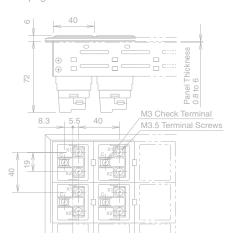
Type F

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



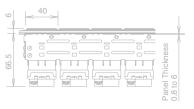
• The dimension of incandescent illuminated 100/110, 200/220V AC is the same as LED illuminated flasher.

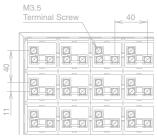
- Full Voltage
- One-color full
- w/Check Terminal
- 6, 12, 24V DC
- For applicable terminal cover, see page 26.



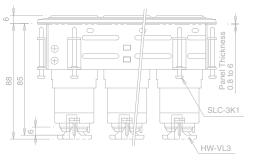
• Incandescent illuminated w/check terminal Terminal X1 and C are positive poles; Terminal X2 is a negative pole.

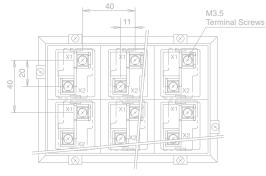
- Full Voltage
- 6, 12, 18, 24V AC/DC
- One-color full
- For applicable terminal cover, see page 26.



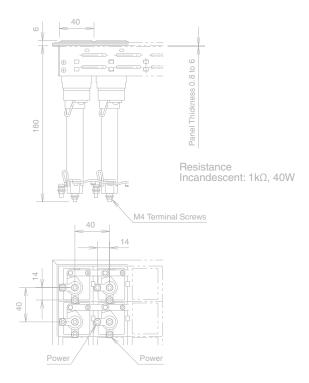


- Transformer
- 100/110, 200/220V AC
- One-color full





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

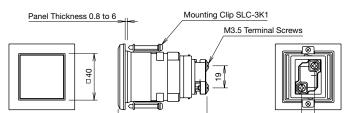


Dimensions

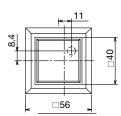
□ 56

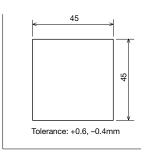
LED Illuminated [One-window, Type F only] Full Voltage 24V AC/DC, One-color Full

Spot Illumination

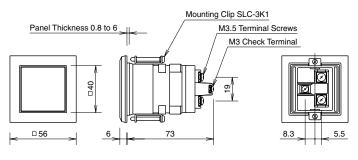


69.9



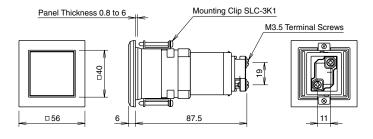


Full Voltage 24V DC, w/Check Terminal Two-color Alternate LED Illuminated 24V AC/DC



- 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.

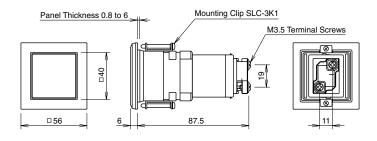
Flasher 24V DC



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

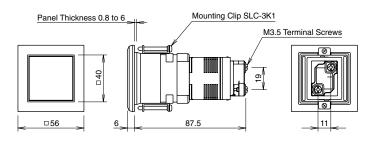
 • See page 26 for applicable terminal covers.

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.

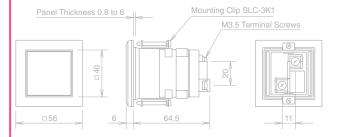
Resistor 100/110V AC/DC



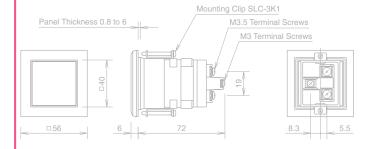
(Resistance) LED illuminated: 4.4 kΩ, 6W



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

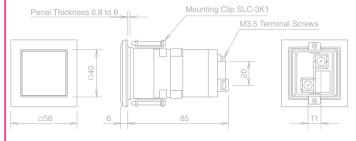


- 45

 V9

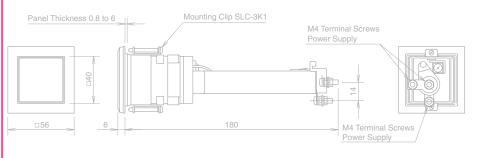
 Tolerance: +0.6, -0.4mm
- w/Check Terminal Terminal X1is a positive pole; Terminal X2 and C (check terminal) are negative poles.
- For applicable terminal cover, see page 26.

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



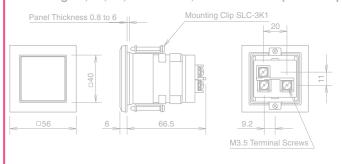
• For applicable terminal cover, see page 26.

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



(Resistance) Incandescent: 1 $k\Omega$, 40W

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

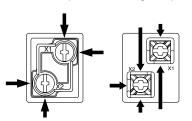


- On dual-lamp, Terminal X1 is a common terminal. Terminals X1 and X2 are interconnected.
- For applicable terminal cover, see page 26.



Terminal Connection (LED Illuminated)

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

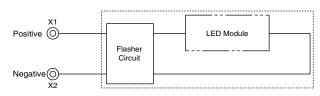


Arrows indicate access direction for wiring terminals.

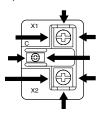
Fingersafe, Spring-up Terminal

Other terminals

(Flasher Connection Diagram)

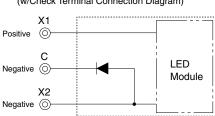


 For w/check terminal and two-color alternate units, Terminal X1 is a positive pole; Terminals X2 and C (check terminal) are negative poles. For two-color alternate, Terminal X1 is common.



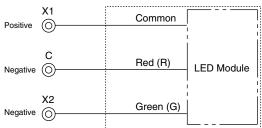
Arrows indicate access directions for wiring terminals.

(w/Check Terminal Connection Diagram)



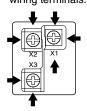
 Connection for Two-color alternate is as follows. Terminal X1 (+) is common (AC/DC).
 Red (R):Terminal C, Green (G):Terminal X2

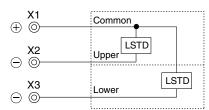
(Two-color alternate Connection Diagram)



 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 M3: 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
LED Illuminated (Note 2)	Fingersafe, Spring-up Terminal (Note 1)	SLCN-JP44 SLCN-JP45	SLCN-JP44 SLCN-JP45	_
	Others	SLC-JP40	SLC-JP41	SLC-JP42
Incandesce	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 terminals.

Terminal Connection

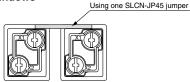
(Incandescent Illuminated)

- 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.

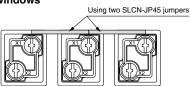
[Examples of Using Jumpers]

LED Illuminated (fingersafe Spring-up Terminal)

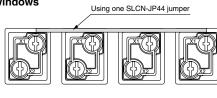




When using three windows



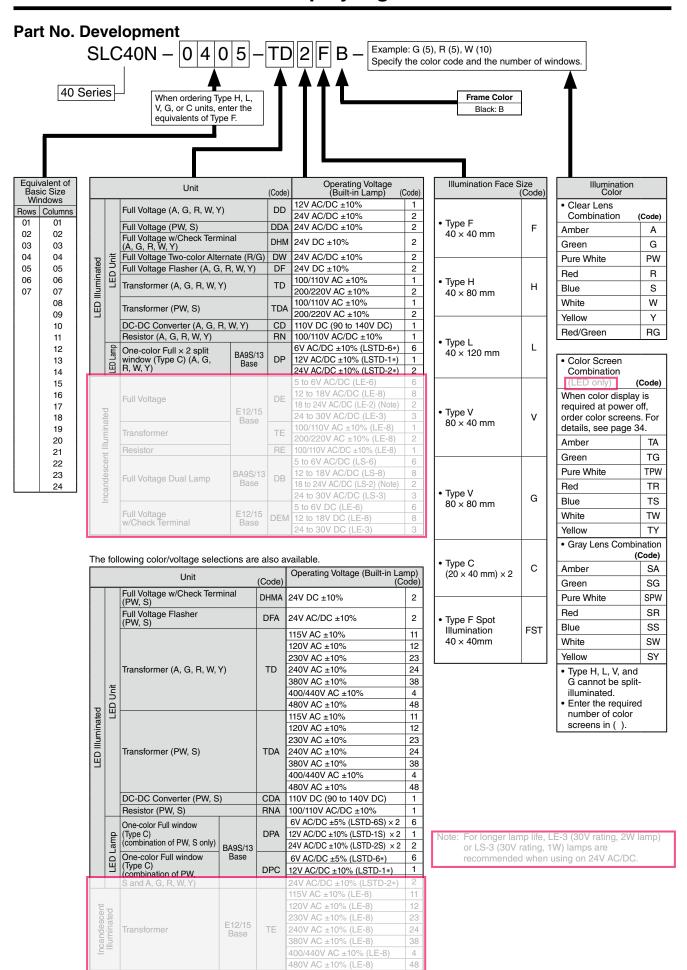
When using four windows







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



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)

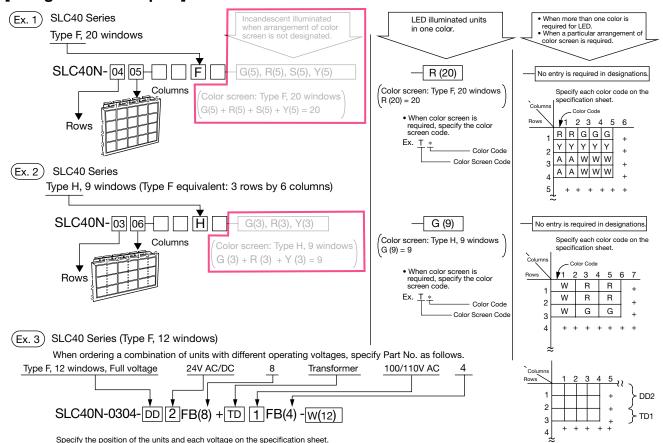
• Type G (large)

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)

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

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

PW R R R + + + + + Columns

Rows

Columns

Color Code

1 2 3 4 5

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

1 2

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.

Applicable Terminal Covers (Material: PPF)

Appli	cable le	rminai Cover	5 (IVIALEII	ai. PPL)					
					Applicable Te	rminal Covers		·	When using a
			SLC30-VL3	HW-VL3	SLC30-VL5	SLC40-VL5	SLC30-VL6	SLC40-VL6	terminal cover, the
Series		Style		raid!			心		depth is extended shown as below.
			29H × 28W	38H × 26W	29H × 28W	36H × 33.5W	29H × 26W	39H × 28W	Ierminai Cover \
		LED One-color Full w/Check Terminal					Applicable		+5.7 mm
	LED Illuminated	Two-color Alternate					Applicable		+5.7 mm
SLC30		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		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

			rce)				
Series	Α	(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
Wille Scieen for Spot Humiliation	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	1	
	SLU30	L	27H × 87W × 1.0t	× 87W × 1.0t	SLC-3PL-*	SLC-3PL-*PN05	A: Amber C: Clear (clear screen) FW: White (white screen) G: Green R: Red (Type F) 5 RL: Red (Except Type F) S: Blue Y: Yellow	
430000		G	57H × 57W × 1.0t		SLC-3PG-*	SLC-3PG-*PN05		
74000		C (LED only)	12H × 27W × 1.0t		SLC-3PC-*	SLC-3PC-*PN05		5
		F	35.8H × 35.8W × 1.0t		SLCN-4PF-*	SLCN-4PF-*PN05		
		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
∏ , 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		SLC-4PL-FWM	SLC-4PL-FWM		
		G	75.8H × 75.8W × 1.0t	1	SLC-4PG-FWM	SLC-4PG-FWM		
		C (LED only)	15.8H × 35.8W × 1.0t		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
	Clear		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	5.8W × 2.8t	SLC-4LH
		SLC40	L	36.8H × 116.8W × 2.8t		SLC-4LL
Lens (LED/Incandescent)			G	76.8H × 76.8W × 2.8t		SLC-4LG SLC-4LC
			C (LED only)	16.8H × 36.8W × 2.8t	Aorulio	
			F	28H × 28W × 2.8t	8t SLC-3LF-M SLC-3LH-M	
			H and V	28H × 58W × 2.8t		SLC-3LH-M
		SLC30	L	28H × 88W × 2.8t		
			G	58H × 58W × 2.8t		SLC-3LG-M
	Crov		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		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

LLD UIIIIS						
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	
e i reo	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	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.
Weight: approx. 4.5g SLC40 Weight: approx. 9.4g	24V AC/DC	Amber, blue, green, pure white, red, white, yellow: 15mA	SLCN-42ST-*	SLCN-42ST-*T	A (amber) 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		LFTD-5*	Coloi	1	
, , , , , , ,	5V DC	8 mA	_	LFTD-5*				
					LFTD-5*PN10	Specify a color code in	10	
	6V AC/DC	7 mA	9 mA (A, R, W, Y)	LFTD-6*	LFTD-6*	place of * in the Part No.	1	
6	01710720	7 112 (10 mA (G, S, PW)	LF1D-0*	LFTD-6*PN10	G (green) PW (pure white) R (red) S (blue) W (white)	10	SX6S/8
NI NI	12V AC/DC	8 mA	9 mA	LFTD-1*	LFTD-1*		1	× 5.4
14.5	12V AC/DC	o IIIA	9 IIIA	LFID-I*	LFTD-1*PN10		10	
	041/ 40/00	0 4	0 4		LFTD-2*		1	
1	24V AC/DC	8 mA	9 mA	LFTD-2*	LFTD-2*PN10		10	
LSTD Lamp (SLC40)		7 m 4 (4 D M)	8 mA (A, G, PW, R, S, W) LSTD		LSTD-6*		1	
	6V AC/DC	7 mA (A, R, W) 5.5 mA (G, S, PW)		LSTD-6*				
0 1 20		,	, , , , , , , ,		LSTD-6*PN10	A (amber)	10	
(3)					LSTD-1*	G (green)	1	
2.4 18.4	12V AC/DC	10 mA	11 mA	LSTD-1*		(blac)		BA9S/13
				LS	LSTD-1*PN10		10	
Eyelet (×1) Voltage Marking	24V AC/DC	10 mA	11 mA	LOTE	LSTD-2*	W (white)	1	
Base (×2) BA9S/13	24V AC/DC	IUIIIA	I I IIIA	LSTD-2*PN10			10	

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

	Shape	Operating Voltage	Ratings	Part No.	Base
_S Lamp	Base BA9S/13	6V AC/DC	1W (6.3V)	LS-6	
0	=	12V AC/DC	1W (18V)	LS-8	DA00/40
-50	23.5	18V AC/DC	1W (24V)	LS-2	BA9S/13
		24V AC/DC	1W (30V)	LS-3	
E Lamp	Base E12/15	6V AC/DC	2W (6.3V)	LE-6	
		12V AC/DC	2W (18V)	LE-8	E40/45
	34 ±2	18V AC/DC	2W (24V)	LE-2	E12/15
	[[]	24V AC/DC	2W (30V)	LE-3	

Accessories / Replacement Parts

Full Voltage Adapter

Shape	Series	Desci	ription	Part No.
	SLC30	LED		SLDN-3DH
	02000	Incandescent	One-color Full	SLC-3DS
	SLC40	LED	One-color Pull	SLDN-4DH
	3L040	Incandescent		SLC-4DE

Transformer Unit

Shape	Series	Illumination	Primary Voltage (50/60 Hz)	Applicable LED Unit/ Incandescent Lamp	Part No.
		LED	100/110V AC	OI DAY COM	SLDN-3TH1
	SI C30	LED	200/220V AC	SLDN-32M-*	SLDN-3TH2
1	SLC30	Incandescent	100/110V AC	10.0	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
116	SLC40		100/110V AC	LE-6	SLC-4TE1
160			Incandescent	200/220V AC	LE-0

Separate Transformer (24V output, LED Unit)

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

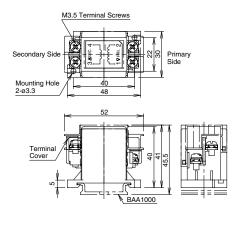
[•] Terminal cover (Part No. TWR-VL3) is supplied as standard.

Applicable LED Unit/Lamp

Series	LED 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 transformer)	
	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)	

 $[\]bullet$ Specify a color code in place of $\ast.$ See page 29.

Dimensions



All dimensions in mm.



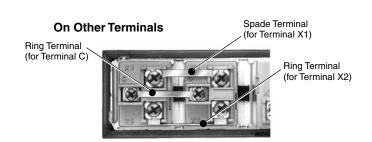
Accessories / Replacement Parts

	Ring Terminal (for four windows)			Description & Dimensions		Quantity
	Rated Current: 3A	SLCN-JP34	SLCN-JP34PN10	For SLC30 Terminal X1, X2	04.4 29 3.2 3.2 4.9 3.2 1	
Spring-up Terminal Rir	(Supplied)	SLCN-JP44	SLCN-JP44PN10	For SLC40 Terminal X1, X2	Part No. L A SLCN-JP34 97.8 30 SLCN-JP44 128 40	
	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	L A T T T T T T T T T T T T T T T T T T	
	(Supplied)	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	Ring Terminal Rated Current: 3A	SLC-JP33	SLC-JP33PN10	For SLC30 Terminal X2 or Terminal X1 of Type C	37.8 37.8 37.8 37.8 30 t = 0.5	
Terminals	5	SLC-JP41	SLC-JP41PN10	For SLC40 Terminal X2	48 3 0 44.4 t = 0.5	
	Ring Terminal Rated Current: 3A	SLC-JP32	SLC-JP32PN10	For SLC30 Terminal C (check terminal & 2-color alternate)	D 03.8	
		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 (Supplied)	4 4 0	SLC-3K1	SLC-3K1PN10	Used for fastening S units to panel cut-ou from the rear of the panel. Weight: approx. 4.60	ıt 1.2 23	

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 of 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 lighting.
- 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.

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 of acrylic.

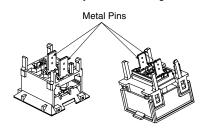
<Operating Instructions>

- 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.

Operating Instructions

When Using Blue and Green LED Units

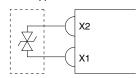
When replacing LED units, avoid ESD to the LED pins, otherwise the internal LED elements may become damaged.



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

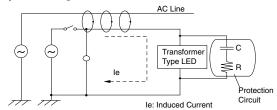


Notes for Using LED Units

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]

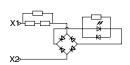
As shown in the diagram above, connect an RC circuit in parallel with the transformer LED unit. For the values of the resistor and capacitor, see the following table.

	Operating Voltage	Capacitor C	Resistor R		
Operating Voltage		(μF)	(Ω)	(W)	
SLC30	100/110V AC (50/60 Hz)	0.33	120	0.25	
SLC30	200/220V AC (50/60 Hz)	0.10	120	0.25	
CI C40	100/110V AC (50/60 Hz)	0.22	120	0.25	
SLC40	200/220V AC (50/60 Hz)	0.10	120	0.25	

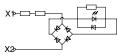
LED Unit Internal Circuit

SLC30 Series

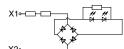
- SLDN-36M-* (6V AC/DC)
- SLDN-31M-* (12V AC/DC) One-color full (amber, green, red, yellow)



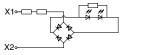
- SLDN-32M-* (24V AC/DC) One-color full
- (amber, blue, green, red, yellow)



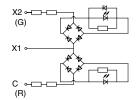
- SLDN-36M-W (6V AC/DC) One-color full (white)
- One-color full (white)



- SLDN-32-W (24V AC/DC) SLDN-32MW-RG (24V AC/DC)



Two-color alternate



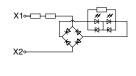
• SLDN-31M-W (12V AC/DC)

One-color full (white)

• SLDN-32ST-* (24V AC/DC) Spot illumination

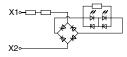
- LED Chip - Rectifying Diode Zener Diode (blue, green, pure white, yellow only)

Resistor

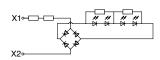


SLC40 Series

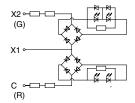
• SLDN-42M-* (24V AC/DC) One-color full (amber, blue, green, red, yellow)



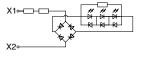
• SLDN-42-W (24V AC/DC) • SLDN-42MW-RG One-color full (white)



(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 LED unit	Mattle Surface	clear lens	amber (A), blue (S), green (G), pure white (PW) (Type F only), red (R), white (W), yellow (Y) red/green (two-color alternate) (RG) (no spot illumination for red/green two-color alternate)		
Standard (using clear lens)	SLC30 SLC40 Incandescent lamp	Matte Surface	clear lens	amber (A), blue (S), green (G), red (R), yellow (Y) (Note 3)	White	
	SLC30 SLC40 Incandescent lamp	Matte Surface	clear lens	white (W)		
	SLC30 SLC40 LED unit	Matte Surface White / color	clear lens	amber (TA), blue (TS), green (TG), red (TR), yellow (TY),	Same as	
Color Screen	SLC30 SLC40 LED unit		clear lens	pure white (TPW, Type F only), white (TW)	ON color	
	SLC30 SLC40 LED unit	clear / white	gray lens	amber (SA), blue (SS), green (SG), pure white (SPW, Type F only), red (SR), white (SW), yellow (SY)		
Gray Lens (Note 4)	SLC30 SLC40	Matto 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)	Lens	ON Color (Color Code)		OFF Color
Standard	SLC30 SLC40 LED lamp	amber (A), blue (S), green (G), red (R), yellow (Note 3)), blue (S), green (G), red (R), yellow (Y)	NA/L:A-	
(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	Matts Surface Color / black (Note 5)	gray lens	Legend	amber (SA), blue (SS), green (SG), red (SR), yellow (SY)	
(Note 4)	SLC30 SLC40 LED lamp	Matte Surface Clear / black (Note 5)	gray lens	Color	pure white (SPW), white (SW)	- Gray

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.

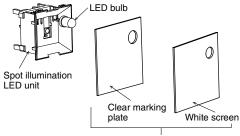
Note 5: Black marking plate has black coating. Engrave a reverse legend on the black-coated surface.



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.

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 H-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

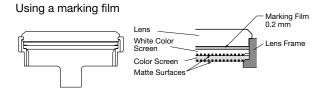
SLC30N: 27 × 27 mm SLC40N: 35.8 × 35.8 mm

Film Material

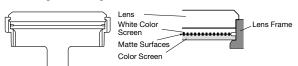
Polyester is recommended.

Placement of Marking Film

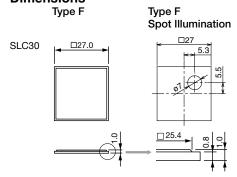
When using a marking film, place the matte surfaces of the marking plate and color screen in the same direction to make a room of 0.2 mm for the marking film (matte surfaces are not facing each other). When not using a marking film, face the matte surfaces of marking plate and color screen each other.



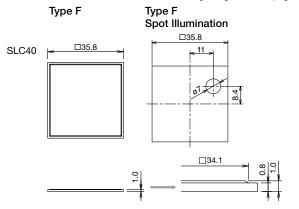
Not using a marking film



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.

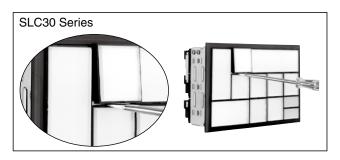
For types G and V, do not put excessive force to remove one latch while pressing the other latch on the opposite side.

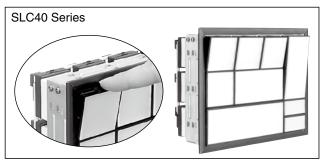
SLC40 Series (Extensible Windows)

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 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

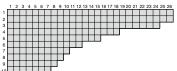
 Full Voltage, w/Check Terminal, 2-color Alternate Up to 10 rows/26 columns (windows must be 200 at maximum)



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 1 2 2 3 4 5 6 7 8 9 1011 121314 1516 1716 1920

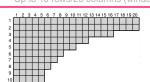
200 windows maximum

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

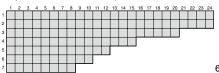
Full Voltage, w/Check Terminal, 2-color Alternate
 Up to 7 rows/24 columns (windows must be 126 at maximum)



126 windows maximum

LED Unit

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



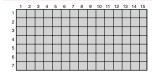
60 windows maximum

LED Lamp (Type C)

• Full Voltage

Incandescent Lamp

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

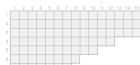


105 windows maximum

Incandescent Lamp

• Transformer, Resistor

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



50 windows maximum

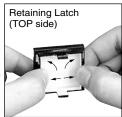
Replacing Lens, Marking Plate, and Color Screen

[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.





Appearance

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.



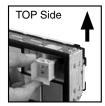
[Installation]

Color

Code

Mark

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.

0-1	0.4.	Manda	Appea	arance
Color	Code	Mark	SLC30	SLC40
Red	R	● Red dot		
Green	G	● Green dot		
Amber	Α	• Amber dot		
Blue	S	● Blue dot		

Yellow Y P (Note)

White W W

Pure White PW P

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]

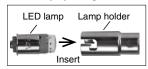
Push lamp holder tool OR-44 into the LED lamp kit, and push and turn clockwise to remove the lamp from the lamp holder.





[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					<u> </u>	L
7 to 10						

Note: See below for Type V.





No. of Mounting Clips

Co	lumns	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.

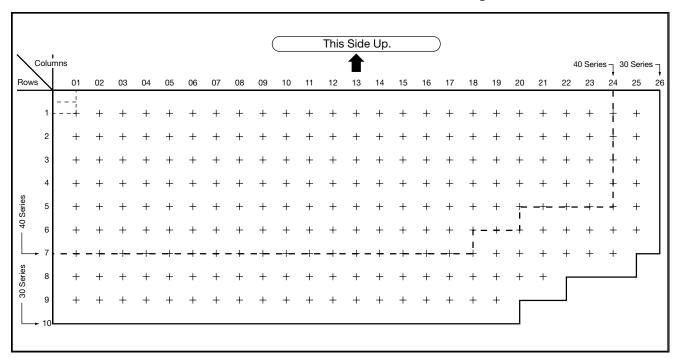


SLC30/40 Series Combination Display Lights Specification Sheet

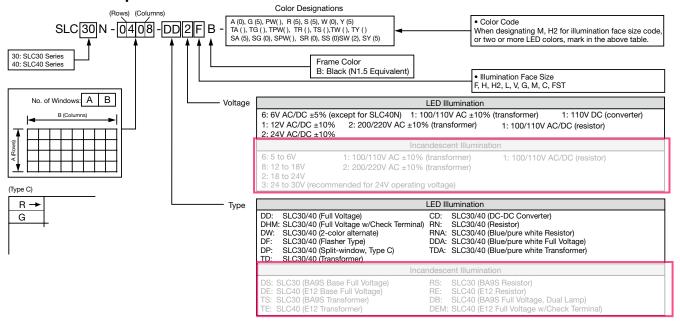
Date of Order	
Customer	
Address	
Phone No.	
Contact	



Illumination Face Size & Color Screen Code Designations



Part No. Development





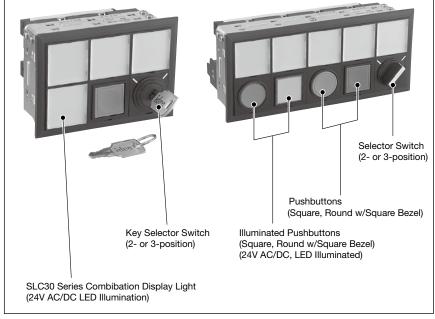
SLC30 Series Combination Display with Control Units

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 (30×30 mm)
- 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 Pos	sition and Conta	ct Operation					
Operation Angle	▼ Left	↑ Center	✓ Right					
90° 2-position	Left Contact Right Contact NO NC NO NC		Left Contact Right Contact NO NC NO NC					
45° 3-position	Left Contact Right Contact NO NC NO NC NO NC	Left Contact Right Contact NO NC NO NC	Left Contact Right Contact NO NC NO NC C C					

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

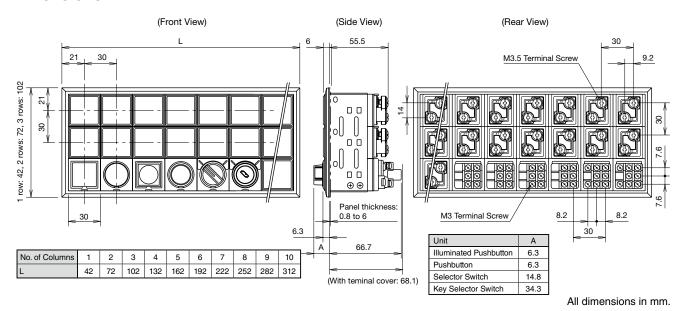
Rated Insulation Voltage	250V AC/DC
Rated Current	Gold contact: 3A Silver contact: 5A
Operating Voltage/Current	Gold contact: 125V AC/0.1A, 30V DC/0.1A (resistive load) Silver contact: 125V AC/3A, 250V AC/2A 30V DC/2A, 125V DC/0.4A (resistive load)

Combination Display Light Ratings

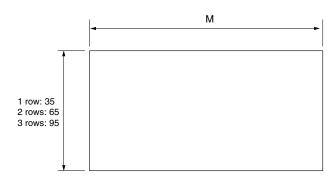
Operating Voltage	24V AC/DC	
	Amber, red, white : Blue, green, pure white, yellow:	12 mA 11 mA

SLC30 Series Combination Display with Control Units

Dimensions



Panel Cut-out



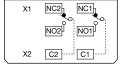
No. of Columns	1	2	3	4	5	6	7	8	9	10
M (mm)	35	65	95	125	155	185	215	245	275	305

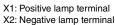
Panel Cut-out (Bottom View)

SLC30

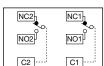
Illuminated Pushbutton







Pushbutton Selector Switch Key Selector Switch



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.

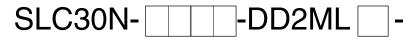


SLC30 Series Combination Display with Control Units

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

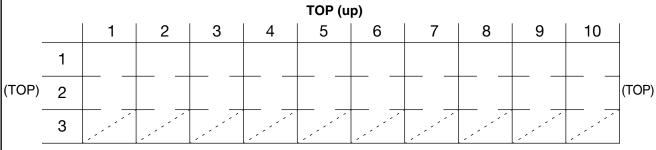
Date of Order	
Customer	
Address	
Phone No.	
Contact	

Part No.



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

Illumination Color & Control Unit Specification



(Bottom Row)

Specification Notes

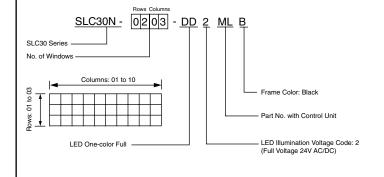
- 1. Use the specification diagram above for LED one-color Full (24V AC/DC) only.
- 2. Control units can be mounted on the bottom row (the third row in the diagram above) only. Enter button or lens color code in the upper part and control unit code in the lower part (see the table below for control unit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

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	C	;	ĺ						
2-position Maintain	on ned	$_{igotimes}$	®	Q,	R	L	®		© (R can l		ased	from th	nese	positions.
Key Code		Α		Е		С	;	D	1	Е		G	1	Н
3-position Maintained		$\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}}}{\overset{\text{\tiny (M)}}}{\overset{\text{\tiny (M)}}}{\overset{\text{\tiny (M)}}}{\overset{\text{\tiny (M)}}}{\overset{\text{\tiny (M)}}}{\overset{\text{\tiny (M)}}}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}}}}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}}{\overset{\text{\tiny (M)}}}{\overset{\text{\tiny (M)}}}{\overset{\tiny (M)}}}{\overset{\text{\tiny (M)}}}}}}}{\overset{\text{\tiny (M)}}{\overset{\text{\tiny (M)}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}$	®	Q [©]	R	r ©	®	r ©	R	$\mathbb{Q} \stackrel{C}{\downarrow} \mathbb{B}$		\mathbb{Q}^{R}		© → O
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TOP		2		R_		Υ_		G_						_
-		3		 13B	A	3	R	5	Ţ,	"		. `		, , ,
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Specifications and other descriptions in this brochure are subject to change without notice.



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