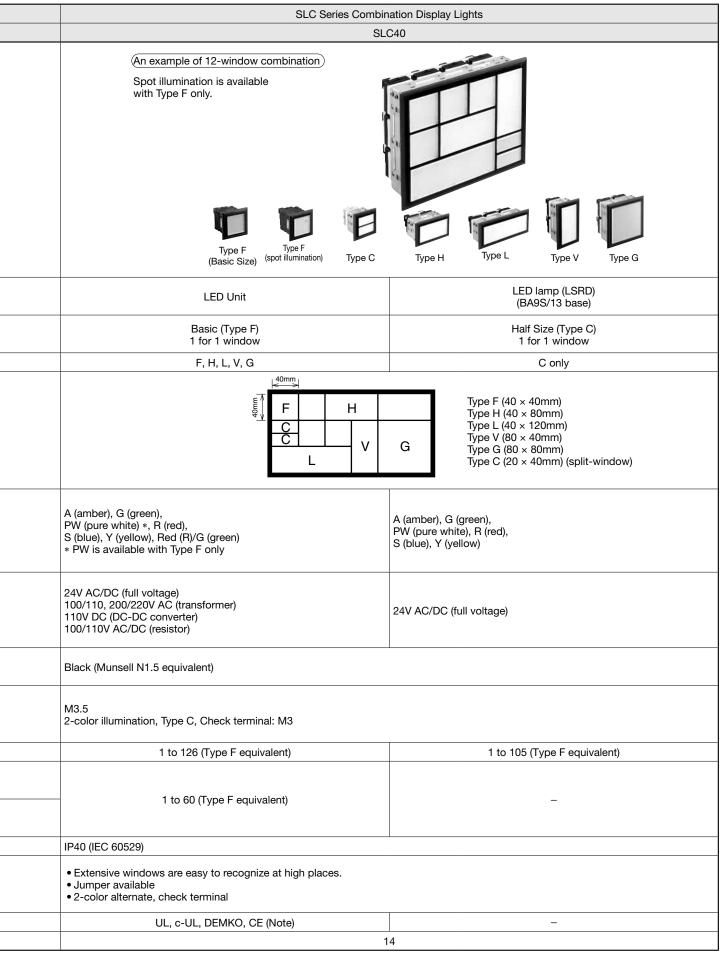
Series		SI C Sorios Combin	nation Display Lights									
Model			C30									
Shape		An example of 15-window combination Spot illumination is available with Type F only. Image: Comparison of the problem of the pro										
Light Sour	rce	LED Unit	LED lamp (LFTD) (SX6S/8 base)									
No. of Uni	its	Basic (Type F) 1 for 1 window	Half Size (Type C) 1 for 1 window									
Illuminatio	on Face Size	F, H, L, V, G	C only Type F (30 × 30mm) Type H (30 × 60mm) Type L (30 × 90mm) Type V (60 × 30mm) Type G (60 × 60mm) Type C (15 × 30mm) (split-window)									
Illuminatio	on Color	A (amber), G (green), PW (pure white) *, R (red), S (blue), Y (yellow), Red (R)/G (green) * PW is available with Type F only	A (amber), G (green), PW (pure white), R (red), S (blue), Y (yellow)									
Rated Volt	tage	12, 24V AC/DC (full voltage) 100/110, 200/220V AC (transformer) 110V DC (DC-DC converter) 100/110V AC/DC (resistor)	12, 24V AC/DC (full voltage)									
Lens Fram Cover Col	ne Color & Frame lor	Black (Munsell N1.5 equivalent)										
Terminal S	Screw	M3.5, Check terminal: M3										
	Full Voltage	1 to 200 (Type F equivalent)	1 to 50 (Type F equivalent)									
No. of Windows	Transformer/Resistor	1 to 75 (Type F equivalent)	_									
	DC-DC Converter											
Degree of Remarks	Protection	IP40 (IEC 60529) • Jumper available • 2-color alternate, check terminal										
Approvals	3	UL, c-UL, DEMKO, CE (Note)	_									
Page			5									

Note: Except for DC-DC converter and resistor



Note: Except DC-DC converter, resistor

Series		Combination Display with Control Units
Model		SLC30 Series (SLC30 + SLC-LW)
Shape		
No. of Wind	ows	Combination display lights: 29 maximum Control units: 10 maximum (the bottom row only) Total 30 maximum
Combinatio	n Display Lights	 SLC30 series one-color (window 30 × 30mm) Illumination color: A (amber), G (green), PW (pure white), R (red), S (blue), Y (yellow)
	Ratings	Rated voltage: 24V AC/DC Operating voltage: 24V AC/DC ±10%
Control Unit		 Pushbutton (square, round with square bezel, momentary) Illuminated pushbutton (square, round with square bezel, momentary) Selector switch (2, 3 positions, round with square bezel) Key selector switch (2, 3 positions, round with square bezel)
	Contact Ratings (Resistive Load)	Rated insulation voltage: 250V AC/DC Rated current: 3A/gold, 5A/silver Gold contact: 125V AC/0.1A, 30V DC/0.1A Silver contact: 125V AC/3A, 250V AC/2A, 30V DC/2A, 125V DC/0.4A
Lens Frame Cover Color	Color & Frame	Black (Munsell N1.5 equivalent)
Degree of P	rotection	IP40 (IEC 60529)
Page		37

<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)





Front

Back

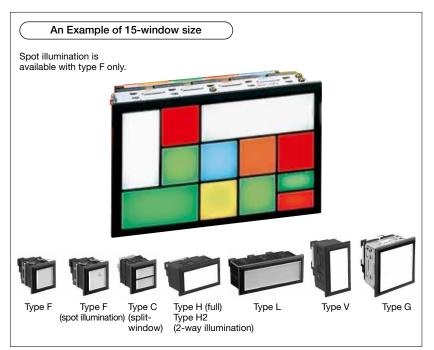
SLC30 Series Combination Display Lights

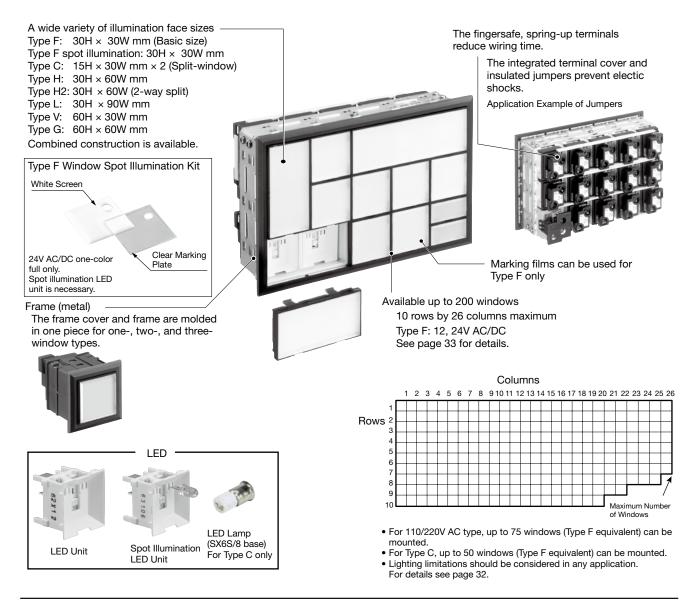
Highly bright "Super LED" unit improves visibility and safety.

- 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.



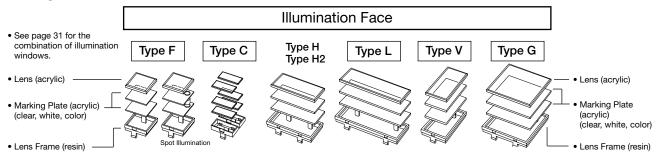
1) Except for EN60947-5-1 DC-DC converter and resistor types. See website for details.





5

Configuration



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

Display Color Type	Light Source	Marking Plate/Color Screen (one each) (Note 2)	Lens	ON Color (Color Code)	OFF Color
Standard (using clear lens)		clear / white		amber (A), blue (S), green (G), pure white (PW), red (R), yellow (Y), red/green 2-color alternate (RG) (Note 1)	White
Color Screen	LED Unit	color / white		amber (IA), blue (IS), green (IG), red (IR), yellow (IY)	Same as ON color
Gray Lens		black (Note 3) / clear	Gray Lens	Lens: gray Legend Color amber (SA), blue (SS), green (SG), pure white (SPW), red (SR), yellow (SY)	Gray

Note 1: Spot illumination is not available with red/green 2-color alternate (RG). Note 2: 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.

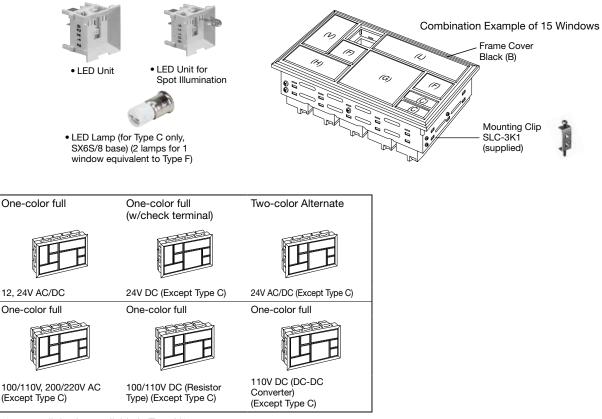
Note 3: Black marking plate has black coating. Engrave a reverse legend on the black-coated surface.

Type C (split-window)

Display Color Type	Light Source	Marking Plate/Color Screens (one each)(Note 4)	Lens		ON Color (Color Code)				
Standard		color / white	Clear	amber (A), I	amber (A), blue (S), green (G), red (R), yellow (Y),				
(using clear lens)		clear / white		pure white (PW)					
Gray Lens	LED Lamp	black (Note 5) / color	Gray	Lens: grav	Legend Color	amber (SA), blue (SS), green (SG), red (SR), yellow (SY)	Gray		
		black (Note 5) / clear	Lens	Lonio. gray		pure white (SPW)			

Note 4: 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 5: Black marking plate has black coating. Engrave a reverse legend on the black-coated surface.



• 2-way split is also available in Type H2.

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

6

Specifications

Lig	ht S	ource			LEC	D Unit			LED	Lamp				
Inp	out			Full Voltage		Transformer	DC-DC Converter	Resistor	Full V	oltage				
Illumination				color k terminal (Note 1)	Two-color Alternate		One-color	One-color × 2 Split-window (Type C)						
Fingersafe Spring-up Terminal				rided neck terminal)	(Note 2)		Provided	(Note 2)						
						110V DC (90 to 140V DC)	100/110V AC/DC ±10%	12V AC/DC ±10%	24V AC/DC ±10%					
Maximum Current Draw (VA) Same as internal LED Unit 1.7 1.4							1.5	Same as ir	iternal LED					
Illu	mina	tion Color	Amber, green, red, yellow	Amber, blue, green, pure white, red, yellow	Red/green Alternate	Amber, blue	e, green, pure white,	pure white	Amber, blue, green, pure white (Note 6), red, yellow					
Sta	anda	rds	UL, c-UL listed, EN compliant –											
	Rat	ted Voltage	12V AC/DC	24V AC/DC	24V DC		24V AC/DC	12V AC/DC	24V AC/DC					
	t	Amber, red	12 mA	12 mA (Note 5)			12 mA (Note 5)							
amp	Rated Current	Green, pure white, yellow	12 mA	11 mA (Note 5)	Red: 12 mA Green: 11 mA		11 mA (Note 5)	4 mA						
Init/L	Rat	Blue 12 mA 11 m		11 mA (Note 5)			11 mA (Note 5)							
Built-in LED Unit/Lamp	Illui (co	mination Color de)	red (R), pure	e (S), green (G), white (PW),) (Note 4)	Red (R)/ green (G)		er (A), blue (S), green nite (PW), red (R), yell	Amber (A), blue (S), green (G), pure white (PW), red (R)						
uilt-i	Bas	se			Plug-in	unit type		SX6S/8						
8		Life (reference)		Approx. 5	50,000 hours (when	used on complete DC	, luminance reduces	to 50% of the initia	l intensity)					
	Par	t No.	SLDN-31M-*	SLDN-32M-*	SLDN-32MW-RG		SLDN-32M-*		LFTD-1∗N	LFTD-2*N				
	No	. of Units		1 LED lamp per s	plit-window type									
Ins	ulati	on Resistance			100 M	Ω between live and de	ead parts (500V DC r	negger)						
Dielectric Strength			2000V AC (1 m	inute) between live	and dead parts	2500V AC between live a		2000V AC (1 minute)		(1 minute) Ind dead parts				
	erati nper	ng ature (Note 3)		–20 to +40°C										
Sto	orage	Temperature		-25 to +60°C (no freezing)										
Op	erati	ng Humidity				45 to 85% RH (n	o condensation)							

Specify a color code in place of *. Note 1: The rated voltage for w/check terminal type is 24V DC only.

Note 2: Terminal cover is available (see page 23).

Note 3: No freezing

Note 4: Blue and pure white LED is 24V AC/DC only. Note 5: Spot illumination uses the spot illumination LED unit (SLDN-32ST-*). See page 26 for rated current. Note 6: Use pure white LED lamp for yellow (Y) illumination.

	Illumination Face	Type F (Note 7) (Basic)	Type C (Split-window)	Type H / Type H2 (Note 9)	Type L	Туре V	Type G				
	Window (H × W) 30 × 30 15			30 × 60	30 × 90	60 × 30	60 × 60				
Pit	Illumination Face (H × W)	28 × 28	13 × 28	28 × 58	28 × 88	58 × 28	58 × 58				
Illumination Unit Size (mm)	White color screen, clear marking plate, color screen (H × W × t)	27 × 27 × 1.0 (Note 8)	12 × 27 × 1.0	27 × 57 × 1.0 (Note 9)	27 × 87 × 1.0	57 × 27 × 1.0	57 × 57 × 1.0				
llu≣ S	Marking Film	Applicable	-	-	_	-	-				
	Engraving Area (white, transparent, color plates)	25 × 25	10 × 25	25 × 55 (Note 9)	25 × 85	55 × 25	55 × 55				
Mater Scree	ial of Marking Plate & Color n	Acrylic									
Lens F	rame Color & Frame Cover Color			Black (Munsell N	1.5 equivalent)						
Conne	ection Wire			Solid wire: ø1.6 × 2,	Stranded 2 mm ² × 2						
Terminal Screw M3.5 screw, Check terminal: M3											
Degre	e of Protection			IP40 (IEC	C 60529)						
Pollut	ion Degree			3	3						

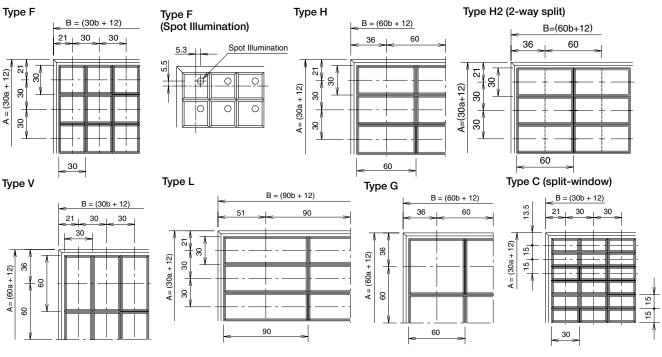
• Spot illumination uses designated clear plate and color screen.

Note 7: Pure white illumination and spot illumination types are available in Type F only.

Note 8: Spot illumination type uses an exclusive clear marking plate and color screen.

Note 9: 2-way split type (Type H2) can use 2-way split color screen only.

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



All dimensions in mm.

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

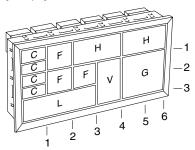
									•																				
	Colu	umns	b	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Rows	Dimer	nsions	в	42	72	102	132	162	192	222	252	282	312	342	372	402	432	462	492	522	552	582	612	642	672	702	732	762	792
nows		Panel Cut-out	(D)	(35)	(65)	(95)	(125)	(155)	(185)	(215)	(245)	(275)	(305)	(335)	(365)	(395)	(125)	(455)	(485)	(515)	(5/15)	(575)	(605)	(635)	(665)	(695)	(725)	(755)	(785)
а	Α	(C)	\searrow	(00)	(00)	(55)	(123)	(133)	(103)	(213)	(243)	(213)	(000)	(000)	(000)	(000)	(423)	(455)	(403)	(313)	(343)	(373)	(003)	(000)	(003)	(033)	(123)	(755)	(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	i)	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

- 1. 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).

[Example]

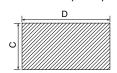


- 4. Total number of windows, dimensions, panel cut-out ① For Type C, H, L, V, and G, convert the numbers of rows and columns into Type F (basic size) equivalents.
 - Type C Type F equivalent: 2 split-windows consist of one window.



- 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 × 192W mm Panel cut-out: 95H × 185W mm

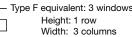
Panel Cut-out (SLC30)

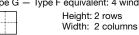


Determine the panel thickness in consideration of the weight of display lights and wires (see page 23).

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







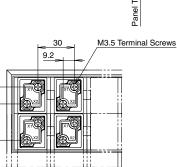
Type F equivalent: 4 windows Height: 2 rows

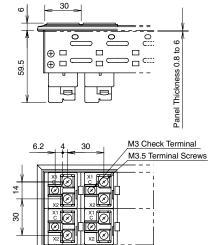
IDEC

[Side & Rear Views]

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

- Full Voltage
 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 23.
- 30 ശ 2 2 0.8 to 6 ⊕ □ 55.5 ⊕□ Panel Thickness على لمل





w/Check Terminal

Terminal X1 is a positive pole; Terminal X2 and C (check terminal) are negative poles. • Two-color Alternate

Resistor

One-color full

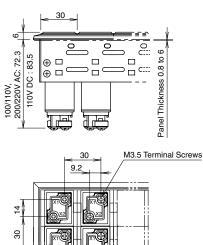
• 100/110V AC/DC

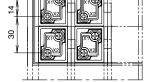
Red (R) illumination: X1 positive, C negative Green (G) illumination: X1 positive, X2 negative

Transformer

8

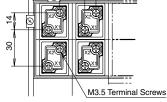
- One-color full
- 100/110, 200/220V AC/DC • 110VDC (DC-DC Converter)

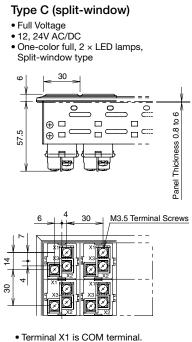




• On DC-DC converter type units, Terminals X1 and X2 are positive and negative poles, respectively.

SLC-3KL Panel Thickness 0.8 to 6 **C**! 83.5 30 9.2

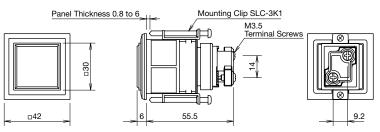




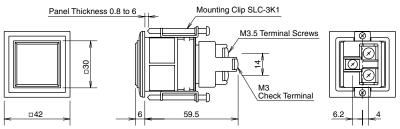
• For applicable terminal cover, see page 23.

All dimensions in mm.

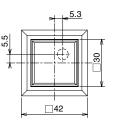
[One-window, Type F only] Full Voltage 12, 24V AC/DC, One-color Full



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



Spot Illumination



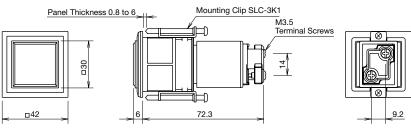
Panel Cut-out 35 +0.6 -0.4 0.6 4.6 35 ¥

All dimensions in mm.

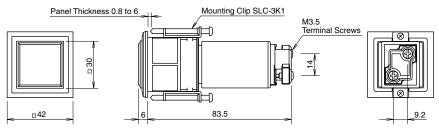
• w/Check Terminal Type

- Terminal X1 is a positive pole; Terminals X2 and C
- Two-color Alternate Type Red (R) illumination: X1 positive, X2 negative Green (G) illumination: X1 positive, X2 negative
- See page 23 for terminal covers.

Transformer 100/110, 200/220V AC

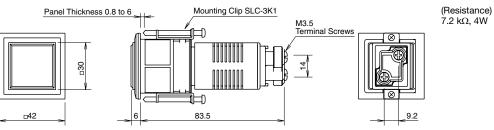


DC-DC Converter 110V DC



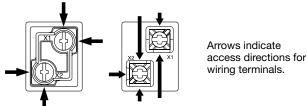
• On DC-DC converter type, Terminals X1 and X2 are positive and negative poles, respectively.

Resistor 100/110V AC/DC



Terminal Connection

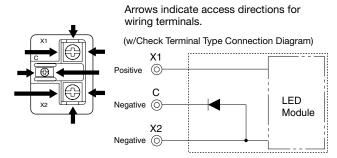
• For one-color full with check terminal, DC-DC converter, and resistor, Terminals X1 and X2 are positive and negative poles, respectively.



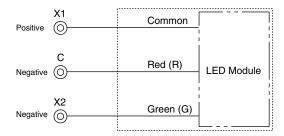
Fingersafe, Spring-up Terminal

Other terminals

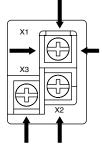
• For w/check terminal and two-color alternate units, terminal X1 is a positive pole; Terminals X2 and C (check terminal) are negative poles.



• 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)

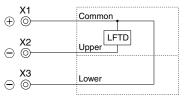


• For the split-window (Type C), Terminal X1 (+) is a common terminal. Terminal X2 is a negative pole of upper illumination and Terminal X3 is a negative pole of lower illumination. (AC/DC) . ..



Arrows indicate access directions for
wiring terminals.
(Type C Spolit-window Connection Diagram)

...



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

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

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

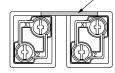
 When using Type C only When using Type C and Two-color alternate 					
SLC-JP33					
SLC-JP30					

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

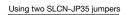
[Examples of Using Jumpers]

Fingersafe Spring-up Terminal)

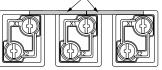
When connecting two windows



When connecting three windows

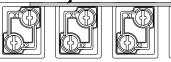


Using one SLCN-JP35 jumper



When connecting four windows

Using one SLCN-JP34 jumper



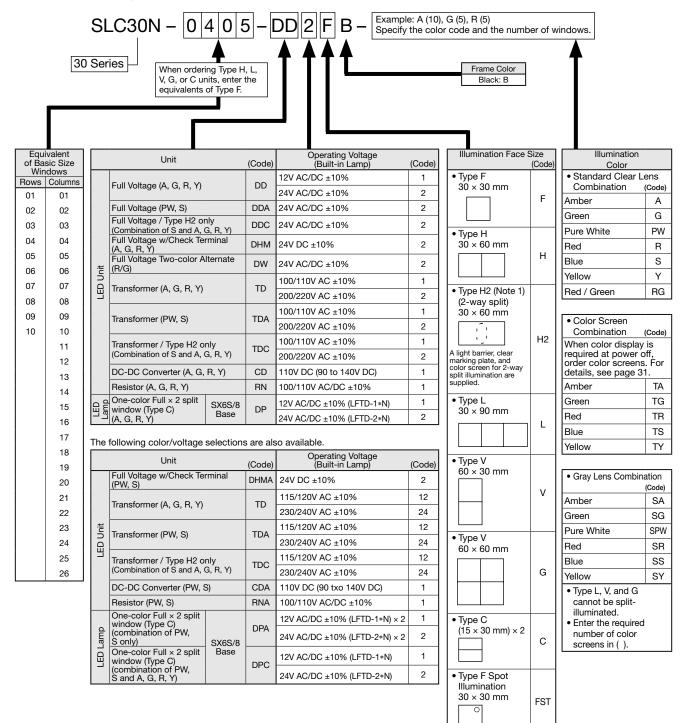


Incorrect

Correct

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

Part No. Development



Note 1: Type H2 (2-way split) can be configured with the

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

Ordering Information

When ordering SLC Series Combination Display Lights, use the specification sheet provided on page 36.

Designation Procedure

1. Part No.: Refer to Part No. Development Configuration on page 12.

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 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)

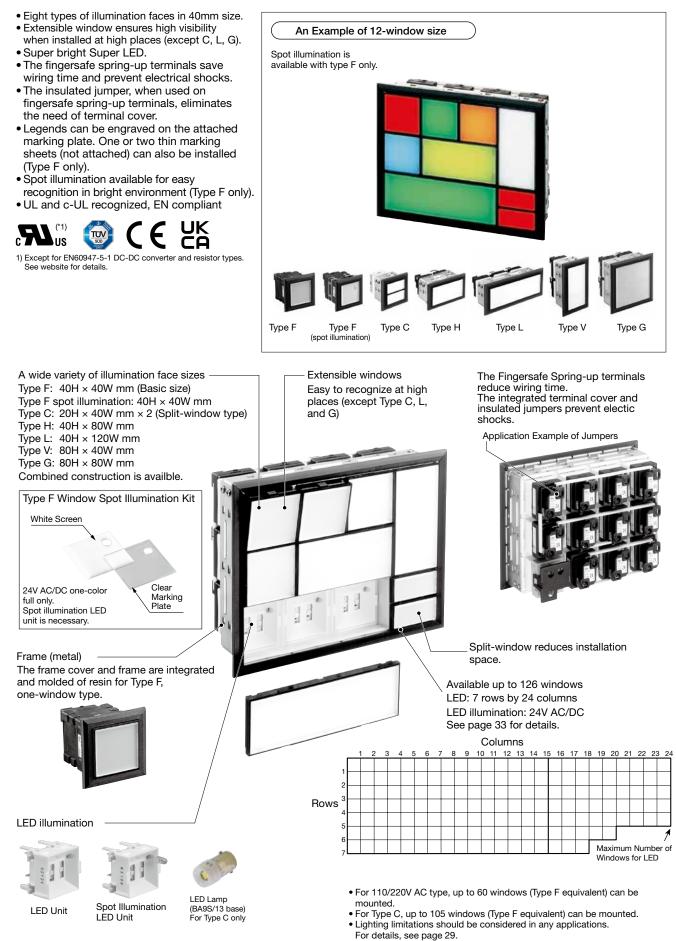
• Type C (split-window)

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

[Designation Examples] (Ex. 1) SLC30 Series When more than one color is required for LED. When a particular arrangement of color screen is required. Units in one color Type F, 20 windows SLC30N- 04 05 F R (20) No entry is required in designations. $\begin{pmatrix} Color screen: Type F, 20 windows \\ R (20) = 20 \end{pmatrix}$ Columns Specify each color code on the -A necification sheet Color Code When color screen is required, specify the color screen code. 1 2 3 4 5 6 Rows RRRRR Ex. ∓ <u>*</u> GGGGG Color Code 2 + Y YYYY Color Screen Code 3 (Ex. 2) SLC30 Series ALALALA Type H, 9 windows (Type F equivalent: 3 rows by 6 columns) 5 SLC30N-03 - R (9) 06 No entry is required in designations. Specify each color code on the Color screen: Type H, 9 windows Columns R (9) = 9 specification sheet - Color Code · When color screen is 2 3 4 6 7 Rows required, specify the color screen code. PW R R + Ex. ∓ <u>*</u>_ PW R R + 2 Color Code PW G G Color Screen Code + 3 4 + + + + (Ex. 3) SLC30 Series (Type F, 12 windows) When ordering a combination of units with different operating voltages, specify Part No. as follows. Type F, 12 windows, Full voltage type 24V AC/DC 8 Transformer Type 100/110V AC 4 DD2 SLC30N-0304- DD 2 FB(8) + TD 1 FB(4) - R (12) Specify the position of the units and each voltage on the specification sheet. (Ex. 4) When ordering a combination of units with different illumination colors, specify Part No. as follows. 2 3 PW R R R Specify the position of the units Example: Full voltage 24V AC/DC, Red (6), Pure White (2) 1 PW R R R and each color code on the SLC30N-0204-DD2FB(6) + DDA2FB(2) R(6)PW(2) specification sheet. Pure White Designation Red Red: 6. Pure White: 2 When ordering a combination of units with different illumination colors for four windows of type C, Color Code (Ex. 5) 5 specify Part No. as follows. Specify the position of Example: Full voltage 24V AC/DC the units and each SLC30N-0202-DPA2CB(1) DPC2CB(3) - R(1)G(1)A(1)S(1)PW(4) color code on the specification sheet Blue, Pure white Red, green, Designation Red: 1, green: 1, blue 1, amber, pure white amber 1, pure white 4

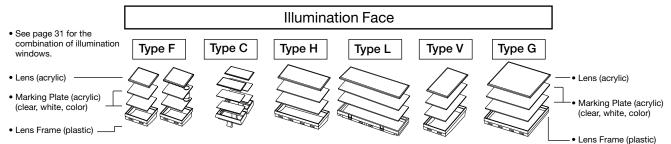
SLC40 Series Combination Display Lights

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



14 **IDEC**

Configuration



Type F, H, L, V, G

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

Note 1: Spot illumination is not available with red/green 2-color alternate (RG).

Note 2: 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.

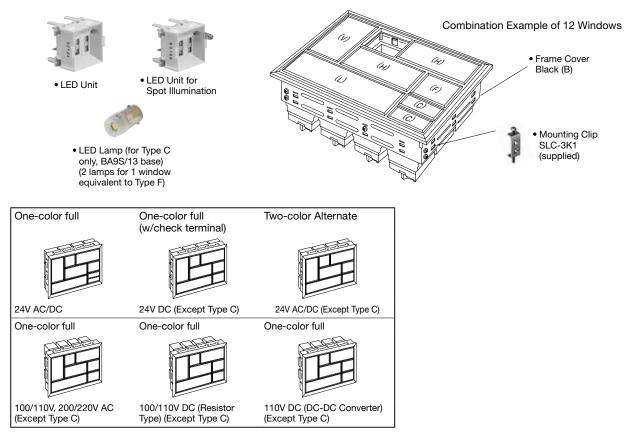
Note 3: Black marking plate has black coating. Engrave a reverse legend on the black-coated surface.

Type C (split-window)

Display Color Type	Light Source	Marking Plate/Color Screen (one each) (Note 4)	Lens		ON Color (Color Code)				
Standard		color / white	Clear	amber (A), I	olue (S), green (G), red (R), yellow (Y)	White		
(using clear lens)		clear / white	pure white	pure white (PW)					
Gravilana	LED Lamp	black (Note 5) / color	Gray		Lonord Color	amber (SA), blue (SS), green (SG), red (SR), yellow (SY)	Crew		
Gray Lens		black (Note 5) / clear	Lens	Lens: gray	Legend Color	pure white (SPW)	Gray		

Note 4: 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 5: 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

Ligł	ht So	urce		l	LED Unit			LED Lamp	
Inp	ut		Full Voltage		Transformer	DC-DC Converter	Resistor	Full Voltage	
Illur	minat	ion	One-color One-color w/check terminal (Note 1)	Two-color Alternate	One-color	One-color	One-color	One-color × 2 Split-window Type (Type C)	
Fingersafe Spring-up Terminal (excep			Provided (except for check terminal)	(Note 2)		Provided	(Note 2)		
Rated Voltage (AC: 50/60Hz)		oltage 60Hz)	24V AC/DC ±10%	24V AC/DC ±10%	100/110V AC ±10% 200/220V AC ±10%			24V AC/DC ±10%	
	ximu ıw (V)	m Current A)	Same as internal LE	D unit	4.7	1.8	2.4	Same as internal LED lamp	
Illur	minat	ion Color	Amber, blue, green, pure white, red, yellow	Red/green Alternate	Amber, bl	ue, green, pure white,	red, yellow	Amber, blue, green, pure white, red, yellow	
Sta	ndar	ds	UL, c-UL li	sted, EN compliant		-	-	-	
	Rat	ed Voltage	24V AC/DC	24V AC/DC		24V AC/DC		24V AC/DC	
		Amber							
	ŧ	Blue							
	Curre		15 mA (Note 4)	Red: 15 mA		7 mA			
dmg	Rated Current (Note 5)	Green	15 MA (Note 4)	Green: 15 mA		7 114			
nit/La	å	Red							
		Yellow							
Built-in LED Unit/Lamp	Illur (cod	nination Color de)	Amber (A), blue (S), green (G), pure white (PW), red (R), yellow (Y)	Red (R)/ green (G)	Amber (A), t	Amber (A), blue (S), green (G), pure white (PW), red (R), Y (yellow)			
В	LED	Life (reference)	Approx.	50,000 hours (when us	ed on complete DC, lur	minance reduces to 50	% of the initial intensit	у)	
	Bas	e		Plug-in unit t	type (for SLC40 only)			BA9S/13 base	
	Par	t No.	SLCN-42M-*	SLCN-42MW-RG		SLCN-42M-*		LSRD-2	
	No.	of Units		1 LED unit per	window of basic Type F	:		1 LED lamp per window of basic Type F	
Insulation Resistance		n Resistance			100 MΩ (500V DC	C megger)			
Die	lectri	c Strength	2000V AC (1 minu between live and dea		2500V AC between live a	(1 minute) and dead parts	2000V AC (1 minute)	2000V AC (1 minute) between live and dead parts	
	eratir te 3)	ng Temperature	–20 to +40°C		-20 to +40°C	-10 to +40°C	-20 to +40°C	-20 to +40°C	
		Temperature			–25 to +60°C (no freezing)				
Ope	eratir	ig Humidity			45 to 85% RH (no co	85% RH (no condensation)			

Specify a color code in place of *.

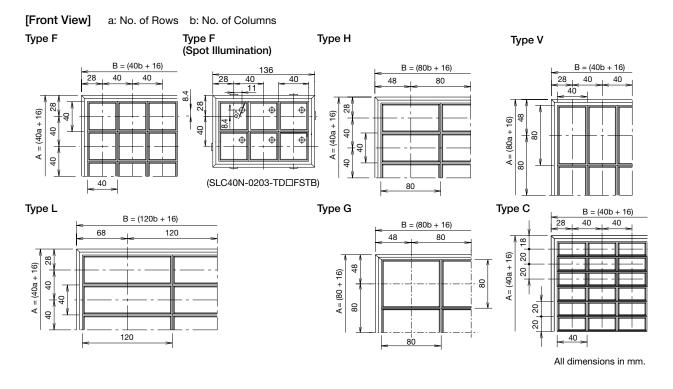
Note 1: The rated voltage for w/check terminal is 24V DC only. Note 2: Terminal cover is available (see page 23).

Note 3: No freezing

Note 4: Spot illumination uses the spot illumination LED unit (SLCN-42ST-*). See page 26 for rated current. Note 5: Rated current for LED lamp is for DC. See page 26 for AC.

Illumi	nation Face	Type F (Note 6) (Basic)	Type C (Split-window)	Туре Н	Type L	Type V	Type G			
	Window (H × W)	ndow (H × W) 40 × 40 20 × 40 40 × 80		40 × 80	40 × 120	80 × 40	80 × 80			
Luit	Illumination Face (H × W)	37 × 37	17 × 37	37 × 77	37 × 117	77 × 37	77 × 77			
Illumination Unit Size (mm)	White color screen, clear marking plate, color screen (H × W × t)	35.8 × 35.8 × 1.0	15.8 × 35.8 × 1.0	35.8 × 75.8 × 1.0	35.8 × 115.8 × 1.0	75.8 × 35.8 × 1.0	75.8 × 75.8 × 1.0			
l∎ "	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 I	N1.5 equivalent)					
Conn	ection Wire			Solid wire: ø1.6 × 2,	Stranded 2 mm ² × 2					
Termi	nal Screw			M3.5 screw, Che	eck terminal: M3					
Degre	e of Protection			IP40 (IE	C60529)					
Pollut	ion Degree			:	3					

Note 6: One-window and spot illumination are available in Type F only.

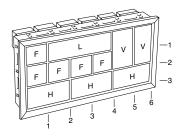


Type F Dimensions & No. of Windows (Type C, H, L, V, and G can be converted into Type F.)

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

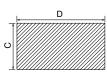
How to Read the Table

- 1. 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.
- 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).



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

Panel Cut-out (SLC40)



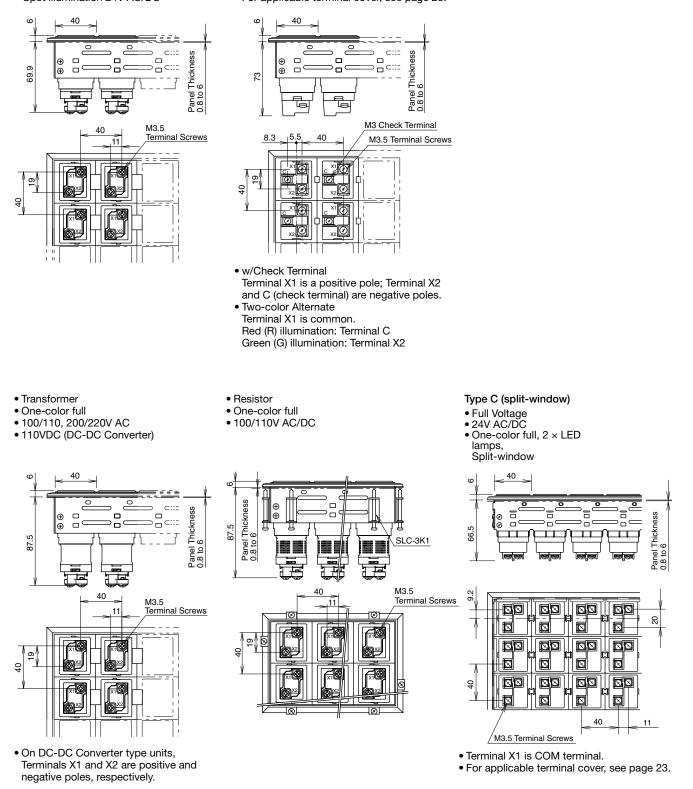
Determine the panel thickness in consideration of the weight of display lights and wires (see page 23).

 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



[Side & Rear Views]

- Full Voltage
- 24V AC/DC
- One-color full
- For applicable terminal cover, see page 23.
 Spot illumination 24V AC/DC
- Full Voltage
- One-color full
- w/Check Terminal 24V DCTwo-color alternate 24V AC/DC
- For applicable terminal cover, see page 23.



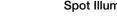
All dimensions in mm.

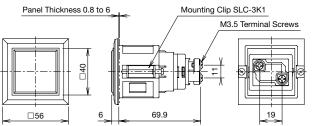
All dimensions in mm.

Dimensions

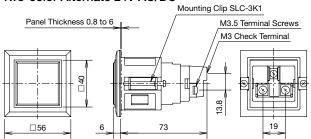
[One-window, Type F only]

Full Voltage 24V AC/DC, One-color Full

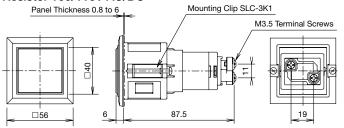




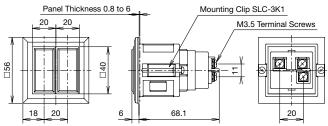
Full Voltage 24V DC, w/Check Terminal Two-color Alternate 24V AC/DC



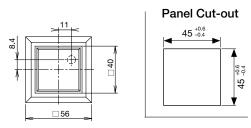
Transformer 100/110, 200/220V AC DC-DC Converter 110V DC Resistor 100/110V AC/DC



[Two-window, Type C only]



Spot Illumination

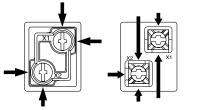


- w/Check Terminal Type Terminal X1 is a positive pole; Terminals X2 and C (check terminal) are negative poles.
 Two-color Alternate Type
- Red (R) illumination: X1 positive, C positive Green (G) illumination: X1 positive, X2 positive
- See page 23 for terminal covers.

- On DC-DC converter type, Terminals X1 and X2 are
- Positive and negative poles, respectively.Resistance
- 7.2 kΩ. 4W

Terminal Connection)

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

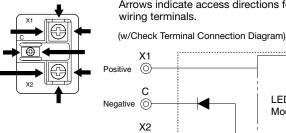


Arrows indicate access direction for wiring terminals.

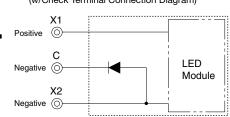
Fingersafe, Spring-up Terminal

Other terminals

• 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.

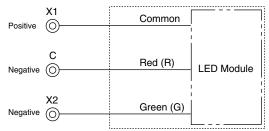


Arrows indicate access directions for



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

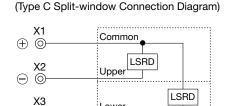
(Two-color alternate Connection Diagram)



• For the 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.





Lower

Recommended tightening torque: M3.5: 1 to 1.3 N·m M3: 0.6 to 1.0 N·m

Θ \bigcirc

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
Fingersafe, Spring-up Terminal (Note 1)	SLCN-JP44 SLCN-JP45	SLCN-JP44 SLCN-JP45	_
Others	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).

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

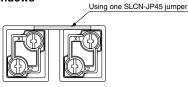
Direction	 When using Type C only When using Type C and Two-color alternate
Vertical	SLC-JP40
Horizontal	SLC-JP41

Note: Jumpers cannot be used when using Type C and fingersafe springup terminals.

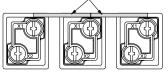
[Examples of Using Jumpers]

Fingersafe Spring-up Terminal

When using two windows



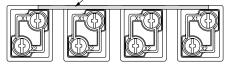
When using three windows

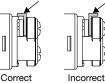


When using four windows

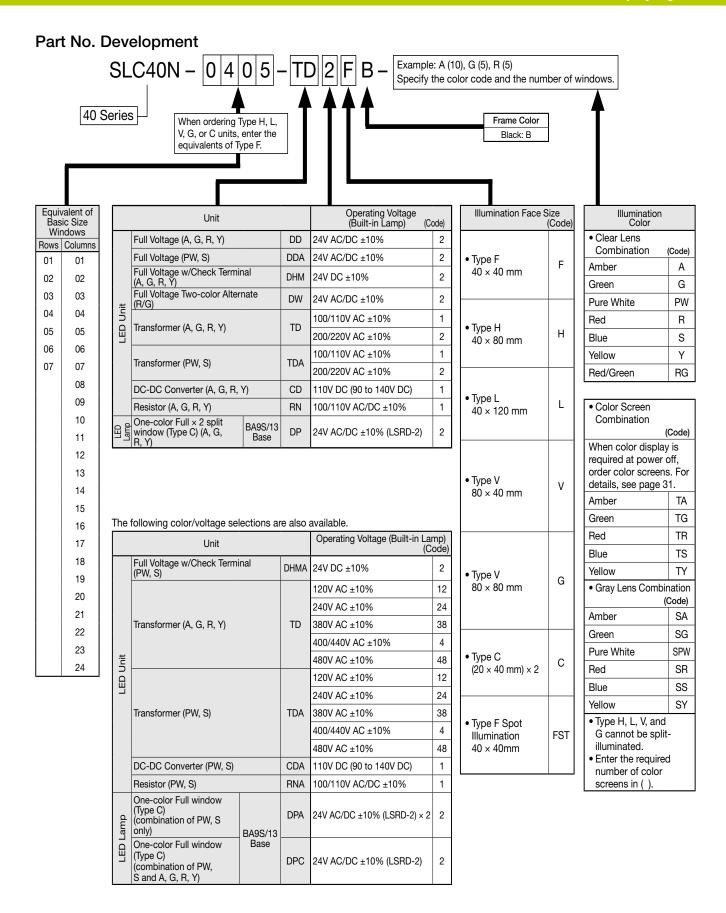
Using one SLCN-JP44 jumper

Using two SLCN-JP45 jumpers





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 36.

Designation Procedure

- 1. Part No.: Refer to Part No. Development on page 21.
- 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).

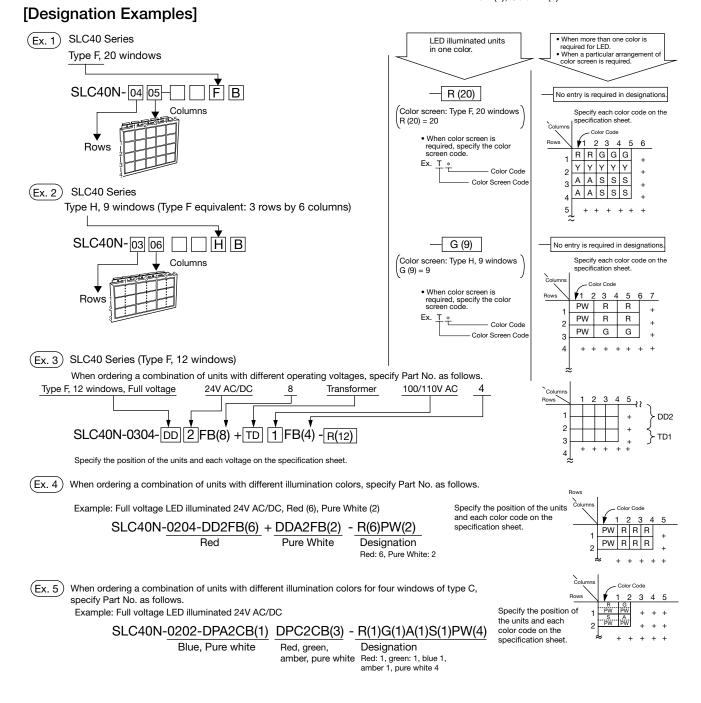
[Conversion Rate]

- 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)



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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: PPE)

		SLC30-VL5	SLC40-VL5	SLC30-VL6	SLC40-VL6	When using a terminal cover, the depth is
Series	Style			S		extended shown as below.
		29H × 28W	36H × 33.5W	29H × 26W	39H × 28W	
	zzzzzzzzOne-color Full w/Check Terminal			Applicable		+5.7 mm
SLC30	Two-color Alternate			Applicable		+5.7 mm
	Type C (half-type) one color Full × 2	Applicable				+2.5 mm
	One-color Full w/Check Terminal				Applicable	+4.7 mm
SLC40	Two-color Alternate				Applicable	+4.7 mm
	Type C (half-type) one color Full × 2		Applicable			+3 mm

Weight

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

Weight =	A × (No. of Rows + No. of Columns) Type F equivalent	+	B × No. of Windows Type F equivalent	
	Frame Weight		Display Weight	

		B (including light source)									
Series	A	(Full Voltage) 12V AC/DC 24V AC/DC	(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	85g	47g	54g	46g					
SLC40 (Approx.)	30g	60g	126g	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
(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
white Screen for Spot numination	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.
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			
		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		
all the second	51030	L	27H × 87W × 1.0t]	SLC-3PL-*	SLC-3PL-*PN05	A: Amber C: Clear (clear screen)	
		G	57H × 57W × 1.0t]	SLC-3PG-*	SLC-3PG-*PN05	FW: White (white screen)	
all a contraction		С	12H × 27W × 1.0t		SLC-3PC-*	SLC-3PC-*PN05	G: Green R: Red (Type F)	5
The second		F	35.8H × 35.8W × 1.0t]	SLCN-4PF-*	SLCN-4PF-*PN05	RL: Red (Except Type F)	
		H and V	75.8H × 35.8W × 1.0t]	SLC-4PH-*	SLC-4PH-*PN05	S: Blue Y: Yellow	
	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		
		С	15.8H × 35.8W × 1.0t	Acrylic	SLC-4PC-*	SLC-4PC-*PN05		
Black Marking Plate		F	27H × 27W × 1.0t		SLDN-3C-WM	SLDN-3C-WM		
		H and V	27H × 57W × 1.0t]	SLC-3PH-FWM	SLC-3PH-FWM		
	SLC30	H (split-window)	27H × 28.5W × 1.0t]	SLC-3PH2-FWM	SLC-3PH2-FWM		
	51030	L	27H × 87W × 1.0t]	SLC-3PL-FWM	SLC-3PL-FWM		
		G	57H × 57W × 1.0t]	SLC-3PG-FWM	SLC-3PG-FWM		
		С	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		
		H and V	75.8H × 35.8W × 1.0t]	SLC-4PH-FWM	SLC-4PH-FWM	-	
Ľ	SLC40	L	35.8H × 115.8W × 1.0t]	SLC-4PL-FWM	SLC-4PL-FWM		
		G	75.8H × 75.8W × 1.0t]	SLC-4PG-FWM	SLC-4PG-FWM		
		С	15.8H × 35.8W × 1.0t	1	SLC-4PC-FWM	SLC-4PC-FWM		

Note: For insertion order into SLC frames or markings, see operating instructions on page 31 and 32.

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	13H × 28W × 2.8t		SLC-3LC
	Clear		F	36.8H × 36.8W × 2.8t		SLC-4LF
			H and V	36.8H × 76.8W × 2.8t		SLC-4LH
		SLC40	L	36.8H × 116.8W × 2.8t		SLC-4LL
			G	76.8H × 76.8W × 2.8t	Acrilia	SLC-4LG
			С	16.8H × 36.8W × 2.8t		SLC-4LC
			F	28H × 28W × 2.8t	Acrylic	SLC-3LF-M
			H and V	28H × 58W × 2.8t	1	SLC-3LH-M
		SLC30	L	28H × 88W × 2.8t		SLC-3LL-M
			G	58H × 58W × 2.8t	1	SLC-3LG-M
	Cravi		С	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
			С	16.8H × 36.8W × 2.8t		SLC-4LC-M

Lens Frame

Shape	Series	Applicable Window	Material	Part No.
		F		SLC-3WF-BL
		Н	ABS	SLC-3WH-BL
		H (split-window) (Note)		SLC-3WH2-BL
	SLC30	L	PC	SLC-3WL-BL
		V		SLC-3WV-BL
		G		SLC-3WG-BL
		С	ABS	SLC-3WC-BL
		F		SLC-4WF-BL
		Н		SLC-4WH-BL
	SI C 40	L	PC	SLC-4WL-BL
	SLC40	V		SLC-4WV-BL
		G	ABS	SLC-4WG-BL
		С] [SLC-4WC-BL

Note: A light barrier is supplied.

LED Units

Series & Shape	Illumination	Operating Voltage	Rated Current	Part No.	Ordering No.	Color Code
SLC30	One color full 241/ AC/DC		Amber, green, red, yellow: 12mA	SLDN-31M-*	SLDN-31M-*T	
2112			Amber, red: 12mA Blue, green, pure white, yellow: 11mA	SLDN-32M-*	SLDN-32M-*T	Specify a color code in place of * in the Part
Weight: approx. 4.3g	Two-color alternate	24V DC	Red: 12mA/green: 11mA	SLDN-32MW-RG	SLDN-32MW-RGT	No. A (amber) G (green)
SLC40	One color full	24V AC/DC	Amber, blue, green, pure white, red, yellow: 15mA	SLCN-42M-*	SLCN-42M-*T	PW (pure white) R (red) S (blue) Y (yellow)
Weight: approx. 9.2g	Two-color alternate	24V AC/DC	Red: 15mA/green: 15mA	SLCN-42MW-RG	SLCN-42MW-RGT	. ()()

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

Replacement Parts

LED Units for Spot Illumination

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

• Used with SLCN-ST-* spot illumination kit. The spot color is same as illumination surface.

LED Lamps

Shape	Operating Voltage	Curren DC Rating	t Draw AC Rating	Part No.	Ordering No.	Illumination Color	Package Quantity	Base	
LFTD Lamp (SLC30)	12V AC/DC				LFTD-1*N		1		
to part	12V AC/DC	4n	- 4	LFTD-1*N	LFTD-1*NPN10	Specify a color code in place of * in the Part No. A (amber) G (green) PW (pure white) R (red) S (blue)	10	SX6S/8 × 5.4	
	24V AC/DC	411		LFTD-2*N	LFTD-2*N		1	3,03/8 × 3.4	
00.2 06.2				LF I D-Z*N	LFTD-2*NPN10		10		
LSRD Lamp (SLC40)	241/ AC/DC	7mΔ	8m4		LSRD-2		1	BA9S/13	
C Par	24V AC/DC 7mA 8mA		LSRD-2	LSRD-2PN10		10	BA95/13		

•Only one color is available for LSRD so there are no codes to specify the color in the part no.

Accessories / Replacement Parts

Full Voltage Adapter

Shape	Series	Description	Part No.
	SLC30		SLDN-3DH
	SLC40	One-color Full	SLDN-4DH

Transformer Unit

Shape	Series	Illumination	Primary Voltage (50/60 Hz)	Applicable LED Unit	Part No.	
	01.000		100/110V AC		SLDN-3TH1	
	SLC30		200/220V AC	SLDN-32M-*	SLDN-3TH2	
	81.040	LED -	100/110V AC			SLDN-4TH1
	SLC40		200/220V AC	SLCN-42M-*	SLDN-4TH2	

Separate Transformer (24V output, LED Unit)

Shape	Primary Voltage	Secondary Voltage	Part No.	Applicable LED Unit/ Lamp
	100/110V AC	0.5W, 24V	TWR512	0
	200/220V AC	0.5W, 24V	TWR522	See the table below.
	400/440V AC	0.5W, 24V	TWR542	Delow.

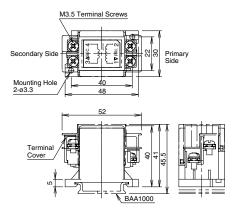
•Terminal cover (Part No. TWR-VL3) is supplied as standard.

Applicable LED Unit/Lamp

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

• Specify a color code in place of *. See page 26.

Dimensions



All dimensions in mm.

Accessories / Replacement Parts

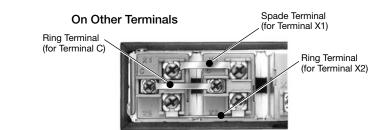
	Name & Shape	Part No.	Ordering No.	D	escription & Dimensions	Package Quantity
	Ring Terminal (for four windows) Rated Current: 3A	SLCN-JP34	SLCN-JP34PN10	For SLC30 Terminal X1, X2		
Jumper for fingersafe, Spring-up	(Supplied)	SLCN-JP44	SLCN-JP44PN10	For SLC40 Terminal X1, X2	Part No. L A SLCN-JP34 97.8 30 SLCN-JP44 128 40	
Terminal	Ring Terminal (for 2 windows) Rated Current: 3A	SLCN-JP35	SLCN-JP35PN10	For SLC30 Terminal X1, X2	$\begin{array}{c} 04.4 \\ 4.9 \\ \hline 3.2 \\ \hline \\ $	
	(Supplied)		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		
	(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	2 37.8 37.8 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Terminals	5 0	SLC-JP41	SLC-JP41PN10	For SLC40 Terminal X2	<u>48</u> <u>2</u> <u>04.4</u> <u>40</u> t = 0.5	_
	Ring Terminal Rated Current: 3A	SLC-JP32	SLC-JP32PN10	For SLC30 Terminal C (check terminal & 2-color alternate)		
0	SLC-JP42	SLC-JP42PN10	For SLC40 Terminal C (check terminal & 2-color alternate)	m $t = 0.5$ Part No. L $A^{\pm 0.1}$ B SLCN-JP32 37 30 2.5 SLCN-JP42 47 40 2.5		
Mounting Clip		SLC-3K1	SLC-3K1PN10	Used for fastening sunits to panel cut-ofrom the rear of the panel. Weight: approx. 4.6	but 12 1.2 23	

All dimensions in mm.

Jumper Application Examples

On Fingersafe, Spring-up Terminals





🔨 Safety Precautions

- Turn off the power to the SLC units before installation, removal, wiring, maintenance, or inspection. Before removing the LED units, make sure that power is turned off. Failure to turn off the power may cause an electrical shock, create fire hazards, or damage of LED units or 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.

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. 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.

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

- 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 or LED lamps, use IDEC products.

<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.

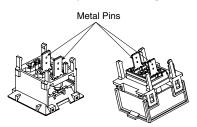
<Operating Instructions>

- 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

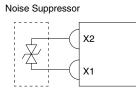
When Using Blue and Green LED Units

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



Precautions for Noise

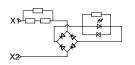
When using the SLC units in an environment where the SLC is subjected to noise, connect a noise suppressor across terminals X1 and X2 as shown below.



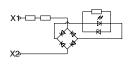
LED Unit Internal Circuit

SLC30 Series

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

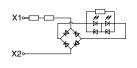


 SLDN-32M-* (24V AC/DC) One-color full (amber, blue, green, red, yellow)

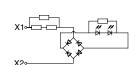


SLC40 Series

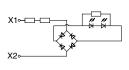
• SLDN-42M-* (24V AC/DC) One-color full (amber, blue, green, red, yellow)



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



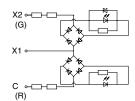
SLDN-32-W (24V AC/DC)
 SLDN-32MW-RG
 (24V AC/DC)
 (24V AC/DC)
 Two-color alternate



• SLDN-42-W (24V AC/DC)

One-color full (white)

X2



• SLDN-42MW-RG

Two-color alternate

(24V AC/DC)

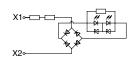
X2 ⊶⊏

(G) X1 •

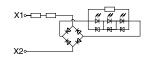
C (R)

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

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



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

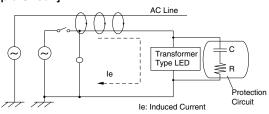


Notes for Using LED Units

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	Resis	tor R
	Operating voltage	(μF)	(Ω)	(W)
SLC30	100/110V AC (50/60 Hz)	0.33	120	0.25
51030	200/220V AC (50/60 Hz)	0.10	120	0.25
SLC40	100/110V AC (50/60 Hz)	0.22	120	0.25
SLC40	200/220V AC (50/60 Hz)	0.10	120	0.25

30 **IDEC**

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
Standard (using clear lens)	SLC30 SLC40	Matte Surface		red (R), ye red/green), blue (S), green (G), pure white (PW) (Type F only), ellow (Y) 1 (two-color alternate) (RG) (no spot illumination een two-color alternate)	White
	LED unit	clear / white	clear lens			
	SLC30 SLC40	Matte Surface		amber (TA	A), blue (TS), green (TG), red (TR), yellow (TY)	
	LED unit	white / color	clear lens			Same as
Color Screen	SLC30 SLC40	Matte Surface		pure whit	e (TPW, Type F only)	ON color
	LED unit	clear / white	clear lens			
Gray Lens (Note 3)	SLC30 SLC40	Matte Surface		Legend Color	amber (SA), blue (SS), green (SG), pure white (SPW, Type F only), red (SR), yellow (SY)	Gray
	LED unit	clear / black (Note 4)	gray lens			

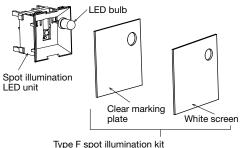
Type C (split-window)

Display Color Type	Light Sou	irce	Marking Plate/ Color Screen (Note 1) (Note 2)	Lens		ON Color (Color Code)	OFF Color
Standard	SLC30 SLC30	SLC40	color / white	clear lens	amber (A)), blue (S), green (G), red (R), yellow (Y)	
using clear ens)	SLC30	SLC40	Matte Surface		pure whit	e (PW)	- White
	LED lam	ıp	white / clear	clear lens		1	
	SLC30	SLC40	Matte Surface			amber (SA), blue (SS), green (SG), red (SR), yellow (SY)	
Gray Lens	LED lam	ıp	color / black (Note 4)	gray lens	Legend		Grav
Gray Lens (Note 3)	SLC30	SLC40	Matte Surface		Color	pure white (SPW)	- Gray
	LED lam		clear / black (Note 4)	gray lens			

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 24 for ordering the screen/plate as replacement parts. Note 3: When ON: legends shown in the specified color on gray lens. When OFF: no legends shown on gray lens. Gray lens, black marking plate, and clear or color screen are used. Note 4: Black marking plate has black coating. Engrave a reverse legend on the black-coated surface.

Type F Spot Illumination

Spot illumination LED unit and spot illumination kit are used.



(Supplied with the supot illumination type SLC. See page 24 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

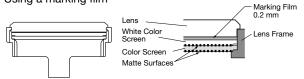
Film Material

Polyester is recommended.

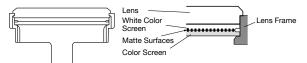
Placement of Marking Film

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.

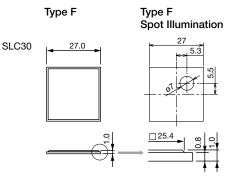
Using a marking film



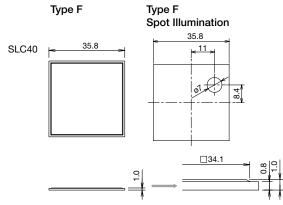
Not using a marking film



Color Screen/White Color Screen/Clear Screen Dimensions



For engraving area, see page 7.



For engraving area, see page 16.

All dimensions in mm.

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.



SLC30 Series

LED Unit

• Full Voltage 12, 24V DC, w/Check Terminal, 2-color Alternate Up to 10 rows/26 columns (windows must be 200 at maximum)

	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
1																										
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10	17				17						17		17								1					

LED Unit

Transformer 100/110V, 200/220V, 115/120, 230/240V AC DC-DC Converter, Resistor

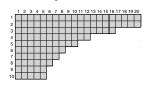
Up to 10 rows/26 columns (windows must be 75 at maximum)

	U	Y۲	' '	υ		υ			/v :	5/	2	υ	C		u			э	0	/ 1		u	JV	va		ш	4
	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	
1																											ł
2																											l
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4			Г																								
5																											
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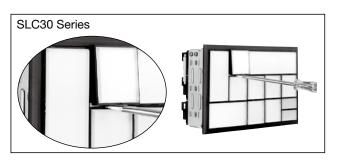
75 windows maximum

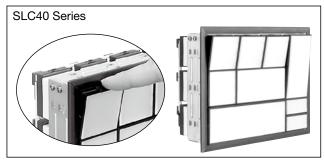
200 windows maximum

LED Lamp (Type C) • Full Voltage 12, 24V DC



50 windows maximum





SLC40 Series

LED Unit



Up to 7 rows/24 columns (windows must be 126 at maximum)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24							
1																															
2																															
з																															
4																															
5																															
6																						_	_								
7																									126	i wi	inc	VOF	vs n	naxi	n

LED Unit

Transformer, 100/110, 200/220, 115, 120, 230, 240, 380, 400/440, 480V AC
 DC-DC Converter, Resistor

Up to 7 rows/24 columns (windows must be 60 at maximum)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
1																							ſ
2																							Î
3																							
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5																							
6																							
7																							
	_	_	_	_	_	_	_																

LED Lamp (Type C)

Full Voltage 24V DC

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1															
2															
3															
4															
5															
6															
7															

105 windows maximum

60 windows maximum

Replacing Lens, Marking Plate, and **Color Screen**

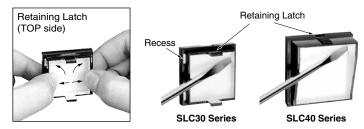
[Removal]

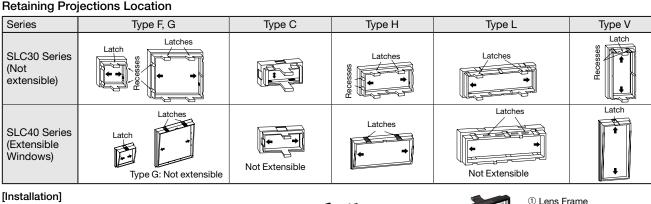
The lens has retaining projections (one or two each on right and left sides). To remove the lens, marking plate, and color screen from the lens frame, push open the lens frame with both hands as shown.

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





Retaining

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

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

Replacing the LED Unit

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

[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.

TOP Side

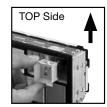
[Installation]

Lèns

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.

1

2



2 White Marking Plate

④ Lens

4

3

③ Clear Screen/Color Screen

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

LED Unit Color Identification

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

Color	Code	Mark	Appea	arance
Color	Code	IVIAIK	SLC30	SLC40
Red	R	● Red dot		
Green	G	● Green dot		
Amber	А	● Amber dot		
Blue	S	● Blue dot		

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

Color	Code	Mark	Appea	rance
Color	Code	IVIAIK	SLC30	SLC40
Yellow	Y	P (Note)		X
Pure White	PW	Ρ		
Red/ Green	RG	_		

Replacing LED Lamps

SLC30, Type C

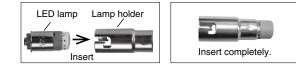
[Removal]

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.

32

SLC40, Type C

25

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		r-1	e			
4 to 6			L		·	L
7 to 10						

Note: See below for Type V.





No. of Mounting Clips

Columns Rows	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

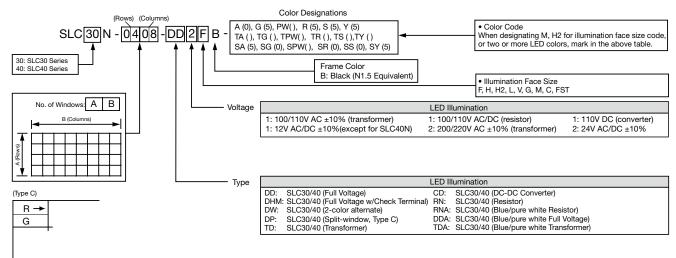
Date of Order	
Customer Address Phone No.	
Address	
Phone No.	
Contact	

Part No.	Color Code Designations
SLC 0N- B-	A (), G (), PW (), R (), S (), Y () TA (), TG (), TPW (), TR (), TS (), TY () SA (), SG (), SPW (), SR (), SS (), SY ()

Illumination Face Size & Color Screen Code Designations

2 3 4 5 0	01 0 	02 03 + + + + + + + +	04 + + +	05 + + +	06 + +	07 + + +	08 + + +	09 + + +	10 + + +	11 + +	12 + +	Side 13 + +	14 + +	15 + +	16 + +) 17 + +	18 + +	19 + +	20 + +	21 + +	4 22 + +	0 Serie 23 + +	24 24 1 1 1	0 Series - 25 2 + +
 1 2 3 4 \$900000000000000000000000000000000000		+ + + + + +	+ + +	+ + +	+ + +	+ +	+ +	+ +	+ +	+ +	+ +	+	+	+	+	+	+	+	+	+	+	+		+
2 3 4 5 0	+ + + +	+ + + +	+ +	+ +	+ +	+	+	+	+	+	+						+ +							
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6 40	+ +	+ +	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+- 1	-+-	-+-	-+-	• +	+
	+ +	+ +	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+ -	• + •	- +	+	+	+	+	+
└ → 7 · −	+ - +	+ -+-	+	-+-	-+-	- + -	- +-	-+-	-+-	-+-	-+-	• + -	- + -	- +-	-+-	-+-	4	+	+	+	+	+	+	
30 Series 8	+ +	+ +	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Г			
9	+ +	+ +	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	Г					
L→ 10																								

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 × 10 columns) can be used.



Combination Display Lights

- One-color Full, Type F (30 × 30mm)
- Operating voltage: 24V AC/DC
- Illumination color:
- Amber (A), Blue (S), Green (G), Pure White (PW), Red (R), 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), 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), Yellow (Y)

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

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

	Operator Position and Contact Operation									
Operation Angle	🔨 Left	1 Center	🖊 Right							
90° 2-position	Left Contact Right Contact NO NC NO NC C C C C		Left Contact NO NC NO NC C C C							
45° 3-position © ®	Left Contact NO NC NO NC C C C	Left Contact Right Contact NO NC NO NC C C C C	Left Contact Right Contact NO NC NO NC C C C C							

Specifications

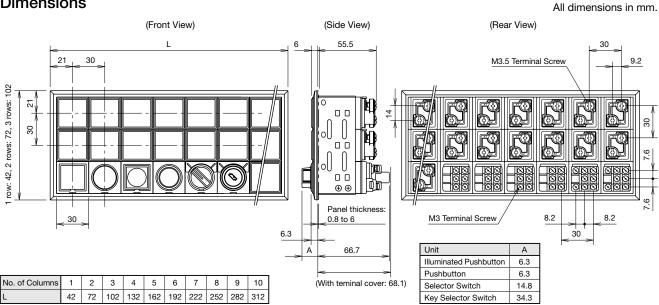
Connection Wire	SLC30: Solid wire ø1.6 × 2 Stranded wire 2 mm ² × 2 SLC-LW: Stranded wire 1.25 mm ² maximum					
Terminal Screw	SLC30: M3.5 SLC30-LW: M3.0					
Insulation Resistance	100 M Ω minimum (500V DC megger)					
	SLC30: 2000V AC, 1 minute					
Dielectric Strength	SLC30-LW: 2500V AC, 1 minute (between terminals of the same pole: 1000V AC, 1 minute)					
Operating Temperature	–20 to 40°C (no freezing)					
Storage Temperature	-25 to +60°C (no freezing)					
Operating Humidity	45 to 85% RH (no condensation)					

Contact Ratings

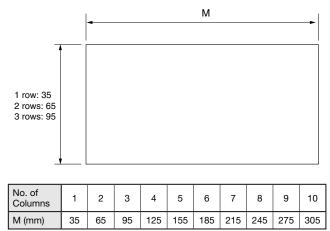
Rated Insulation Voltage	250V AC/DC
Rated Current	Gold contact: 3A Silver contact: 5A
Operating Voltage/Current	Gold contact: 125V AC/0.1A, 30V DC/0.1A (resistive load) Silver contact: 125V AC/3A, 250V AC/2A 30V DC/2A, 125V DC/0.4A (resistive load)

Combination Display Light Ratings

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



Panel Cut-out

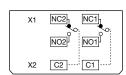


Panel Cut-out (Bottom View)

SLC30

Illuminated Pushbutton







Pushbutton



X1: Positive lamp terminal X2: Negative lamp terminal

Ordering Information

- 1. When ordering, complete the Specification Sheet on page 36.
- 2. Control units (SLC30-LW) can be mounted on the bottom row only.
- 3. 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 24 to 26 for accessories.
- 5. Minimum unit size is 2 × 1 windows.

Safety Precautions

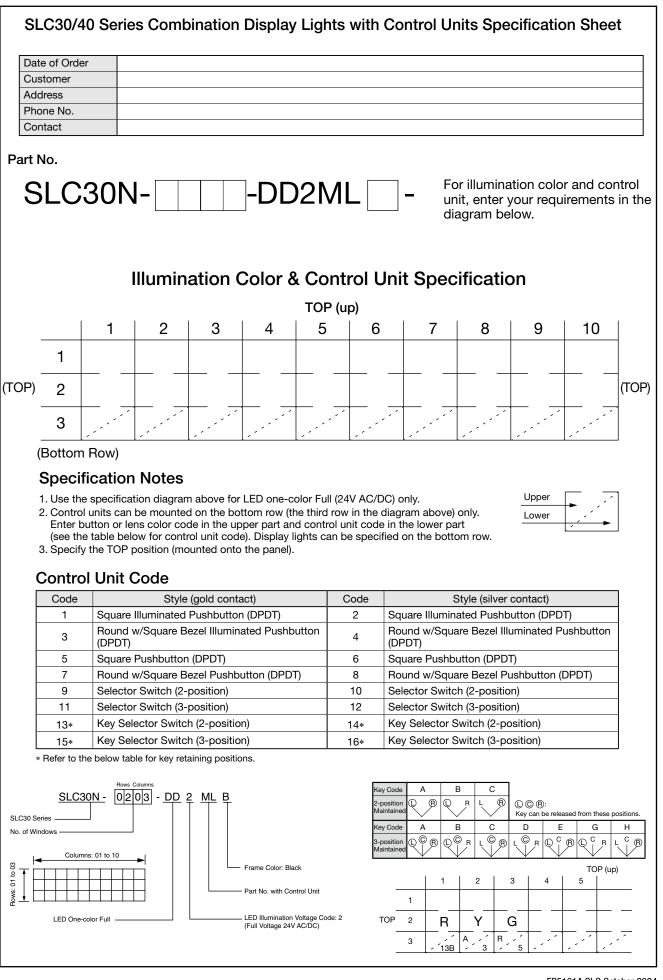
See page 29.

Operating Instructions

- 1. 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.
- 2. 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.
- 5. 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.
- 7. 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.



EP5161A SLC October 2024

IDEC 39

Ordering Terms and Conditions

Thank you for using IDEC Products.

By purchasing products listed in our catalogs, datasheets, and the like (hereinafter referred to as "Catalogs") you agree to be bound by these terms and conditions. Please read and agree to the terms and conditions before placing your order.

1. Notes on contents of Catalogs

(1) Rated values, performance values, and specification values of IDEC products listed in this Catalog are values acquired under respective conditions in independent testing, and do not guarantee values gained in combined conditions.

Also, durability varies depending on the usage environment and usage conditions.

- (2) Reference data and reference values listed in Catalogs are for reference purposes only, and do not guarantee that the product will always operate appropriately in that range.
- (3) The specifications / appearance and accessories of IDEC products listed in Catalogs are subject to change or termination of sales without notice, for improvement or other reasons.
- (4) The content of Catalogs is subject to change without notice.

2. Note on applications

- (1) If using IDEC products in combination with other products, confirm the applicable laws / regulations and standards. Also, confirm that IDEC products are compatible with your systems, machines, devices, and the like by using under the actual conditions. IDEC shall bear no liability whatsoever regarding the compatibility with IDEC products.
- (2) The usage examples and application examples listed in Catalogs are for reference purposes only. Therefore, when introducing a product, confirm the performance and safety of the instruments, devices, and the like before use. Furthermore, regarding these examples, IDEC does not grant license to use IDEC products to you, and IDEC offers no warranties regarding the ownership of intellectual property rights or non-infringement upon the intellectual property rights of third parties.
- (3) When using IDEC products, be cautious when implementing the following.
 i. Use of IDEC products with sufficient allowance for rating and performance
 - ii. Safety design, including redundant design and malfunction prevention design that prevents other danger and damage even in the event that an IDEC product fails
 - Wiring and installation that ensures the IDEC product used in your system, machine, device, or the like can perform and function according to its specifications
- (4) Continuing to use an IDEC product even after the performance has deteriorated can result in abnormal heat, smoke, fires, and the like due to insulation deterioration or the like. Perform periodic maintenance for IDEC products and the systems, machines, devices, and the like in which they are used.
- (5) IDEC products are developed and manufactured as general-purpose products for general industrial products. They are not intended for use in the following applications, and in the event that you use an IDEC product for these applications, unless otherwise agreed upon between you and IDEC, IDEC shall provide no guarantees whatsoever regarding IDEC products.
 - i. Use in applications that require a high degree of safety, including nuclear power control equipment, transportation equipment (railroads / airplanes / ships / vehicles / vehicle instruments, etc.), equipment for use in outer space, elevating equipment, medical instruments, safety devices, or any other equipment, instruments, or the like that could endanger life or human health
 - ii. Use in applications that require a high degree of reliability, such as provision systems for gas / waterworks / electricity, etc., systems that operate continuously for 24 hours, and settlement systems
 - iii. Use in applications where the product may be handled or used deviating from the specifications or conditions / environment listed in the Catalogs, such as equipment used outdoors or applications in environments subject to chemical pollution or electromagnetic interference If you would like to use IDEC products in the above applications, be sure to consult with an IDEC sales representative.

3. Inspections

We ask that you implement inspections for IDEC products you purchase without delay, as well as thoroughly keep in mind management/maintenance regarding handling of the product before and during the inspection.

4. Warranty

(1) Warranty period

The warranty period for IDEC products shall be one (1) year after purchase or delivery to the specified location. However, this shall not apply in cases where there is a different specification in the Catalogs or there is another agreement in place between you and IDEC.

(2) Warranty scope

Should a failure occur in an IDEC product during the above warranty period for reasons attributable to IDEC, then IDEC shall replace or repair that product, free of charge, at the purchase location / delivery location of the product, or an IDEC service base. However, failures caused by the following reasons shall be deemed outside the scope of this warranty.

- i. The product was handled or used deviating from the conditions / environment listed in the Catalogs
- ii. The failure was caused by reasons other than an IDEC product
- iii. Modification or repair was performed by a party other than IDEC
- iv. The failure was caused by a software program of a party other than $\ensuremath{\mathsf{IDEC}}$
- v. The product was used outside of its original purpose
- vi. Replacement of maintenance parts, installation of accessories, or the like was not performed properly in accordance with the user's manual and Catalogs

vii. The failure could not have been predicted with the scientific and technical standards at the time when the product was shipped from $\ensuremath{\mathsf{IDEC}}$

viii. The failure was due to other causes not attributable to IDEC (including cases of force majeure such as natural disasters and other disasters)

Furthermore, the warranty described here refers to a warranty on the IDEC product as a unit, and damages induced by the failure of an IDEC product are excluded from this warranty.

5. Limitation of liability

The warranty listed in this Agreement is the full and complete warranty for IDEC products, and IDEC shall bear no liability whatsoever regarding special damages, indirect damages, incidental damages, or passive damages that occurred due to an IDEC product.

6. Service scope

The prices of IDEC products do not include the cost of services, such as dispatching technicians. Therefore, separate fees are required in the following cases.

- Instructions for installation / adjustment and accompaniment at test operation (including creating application software and testing operation, etc.)
- (2) Maintenance inspections, adjustments, and repairs
- (3) Technical instructions and technical training
- (4) Product tests or inspections specified by you

The above content assumes transactions and usage within your region. Please consult with an IDEC sales representative regarding transactions and usage outside of your region. Also, IDEC provides no guarantees whatsoever regarding IDEC products sold outside your region.

IDEC CORPORATION

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 TK3160-104
 SLC40N-0105-TD12FB
 SLC40N-0801-DHT2FB
 SLC30N-0511-DD2ML
 SLC40N-0106-DHM2HB

 TK3160-003
 SLC30N-0705-DD2FB
 SLC40N-0104-DHT2FB-TK3160-001
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 SLC30N-0207

 DW2FB
 SLC40N-0107-DHT2FB-TK3160-103
 SLC40N-0207-DHT2FB-TK3160-105
 SLC40N-0406-TD1FB
 SLC40N

 0308-TD12HB
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 SLC30N-0511-DD2ML-TK2116-027
 SLC40N-0103-DHT2FB

 TK3160-101
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 SLC30N-0206-DW2MLB
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