SLDN Series Display Lights

Super Bright LED Illumination Increased Visibility for Higher Safety

- Super bright LED illumination. Color arrangements can be easily changed on split illumination types.
- The spring-up terminals save wiring time and ensures safety.
- The integrated terminal cover prevents electrical shocks.
- Marking films (not supplied) can be inserted or easy legend marking.
- Prevention against dim lighting caused by leakage currents and induced voltage.
- UL and c-UL recognized. TÜV approved. EN compliant.



Note: Except for DC-DC converter types.



Reduced Wiring Time

The captive spring-up terminals reduce wiring time. The integrated terminal cover prevents electrical shocks. For 2-color alternate and check terminal type units, separate terminal covers are available.

Jumpers with protection sheath enhance safety





Energy Saving Design

Power consumption is reduced by 50% compared with early products.

Power Consumption (W) 0.50 0.40 0.30 0.20 0.10 0.10 Early Previous New

Easy Replacement of LED Units

Two or three LED units are installed in the splitillumination display units. Since the LED units are removable, the color arrangement can be changed easily.

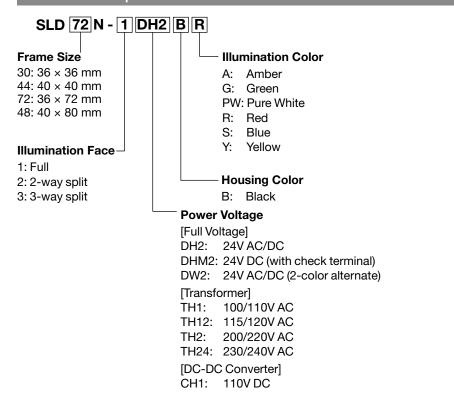


IDEC

Selection Guide

Model	Shape	Frame Size (Lens Size)	Input Voltage	Illumination Face	Rated Voltage	Illumination Color	
	Canal Sec.			1-color Full	24V AC/DC	Amber, Green, Pure White, Red, Blue, Yellow	
			Full Voltage	1-color Full w/check terminal	24V DC		
SLD30N		DIN Size 36 × 36 mm		2-color Alternate	24V AC/DC	Red/Green	
		(28 × 28 mm)	Transformer	1-color Full	100/110V AC 115/120V AC 200/220V AC 230/240V AC	Amber, Green, Pure White, Red, Blue,	
			DC-DC Converter	1-color Full	110V DC (90 to 140V DC)	Yellow	
				1-color Full	24V AC/DC	Amber, Green, Pure White, Red, Blue,	
			Full Voltage	1-color Full w/check terminal	24V DC	Yellow	
SLD44N		$40 \times 40 \text{ mm}$		2-color Alternate	24V AC/DC	Red/Green	
		(32 × 32 mm)	Transformer	1-color Full	100/110V AC 115/120V AC 200/220V AC 230/240V AC	Amber, Green, Pure White, Red, Blue,	
			DC-DC Converter	1-color Full	110V DC (90 to 140V DC)	Yellow	
		DIN Size	Full Voltage	1-color Full			
				2-way Split	24V AC/DC	Amber, Green,	
				3-way Split		Pure White, Red, Blue,	
	E COL			1-color Full w/check terminal	24V DC	Yellow	
SLD72N		36 × 72 mm (28 × 64 mm)		2-color Alternate	24V AC/DC	Red/Green	
		(20 × 04 mm)		1-color Full	100/110V AC		
			Transformer	2-way Split	115/120V AC 200/220V AC	Amber, Green, Pure White,	
				3-way Split	230/240V AC	Red, Blue, Yellow	
			DC-DC Converter	1-color Full	110V DC (90 to 140V DC)	Tellow	
				1-color Full			
				2-way Split	24V AC/DC	Amber, Green, Pure White,	
			Full Voltage	3-way Split		Red, Blue,	
	E CONTRACTOR	40.00		1-color Full w/check terminal	24V DC	Yellow	
SLD48N	SLD48N	40 × 80 mm (32 × 72 mm)		2-color Alternate	24V AC/DC	Red/Green	
				1-color Full	100/110V AC		
			Transformer	2-way Split	115/120V AC 200/220V AC	Amber, Green, Pure White	
				3-way Split	230/240V AC	Pure White, Red, Blue, Yellow	
			DC-DC Converter 1-color Full		110V DC (90 to 140V DC)	161000	

Part No. Development



Packaging

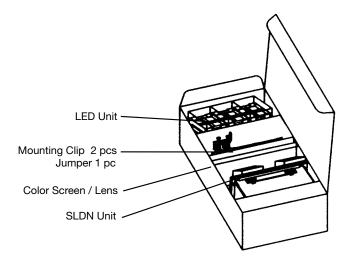
SLDN series are packaged in two different ways depending on the model and illumination face.

1. SLDN series with built-in LED units

SLD30N, SLD44N - All models

SLD72N, SLD48N - 1-color full, 2-way split (combinations GR and RG), 3-way split (combinations GAR) **2. SLDN series supplied with LED units (not built-in)**

SLDN72N, SLD48N - 2-way split (except combinations GR and RG), 3-way split (except combinations GAR)



Color Designation for 2-way and 3-way Split

Specify the color designation from the table below. (Except illumination combinations GR and RG for 2-way split and combinations GAR for 3-way split)

2-way Split

3-way Split

Color Code	Combination	Color Code	Combination
AA	AA	RR	RR
AG	AG GA	RR	RS SR
AR	AR RA	RY	RY YR
AS	AS SA	SS	SS
AY	AY YA	SY	SY YS
APW	APW PWA	YY	YY
GG	GG	PWPW	PWPW
GS	GS SG	PWR	PWR RPW
GY	GY YG	PWS	PWR SPW
GPW	GPW PWG	PWY	PWY YPW

Color code	Combination	Color code	Combination	Color code	Combination	Color code	Combination		Combination
AAA	AAA	ARS	ARS ASR RAS	GGG	GGG	GPWR	GPWR GRPW PWGR	YYY	YYY
AAG	aag aga gaa		RSA SAR SRA	GGR	GGR GRG RGG		PWRG RGPW RPWG	PWPWPW	PWPWPW
AAR	aar Ara Raa	ARY	ARY AYR RAY	GGS	GGS GSG SGG	GPWS	GPWS GSPW PWGS	PWPWR	PWPWR RPWPW PWRPW
AAS	AAS ASA SAA		rya Yar Yra	GGY	GGY GYG YGG		PWSG SGPW SPWG	PWPWS	PWPWS PWSPW SPWPW
AAY	aay aya yaa	ASS	ASS SAS SSA	GGPW	GGPW GPWG PWGG	GPWY	GPWY GYPW PWGY	PWPWY	PWPWY YPWPW PWYPW
AAPW	aapw apwa pwaa	ASY	ASY AYS SAY	GRR	GRR RGR RRG		PWYG YGPW YPWG	PWRR	PWRR RPWR RRPW
AGG	AGG GAG GGA		SYA YAS YSA	GRS	GRS GSR RGS	RRR	RRR	PWRS	PWRS PWSR RPWS
AGR	AGR ARG GRA	AYY	ayy yay yya		RSG SGR SRG	RRS	RRS RSR SRR		rspw Spwr Srpw
	RAG RGA GAR (*1)	APWPW	apwpw Pwapw Pwpwa	GRY	GRY GYR RGY	RRY	RRY RYR YRR	PWRY	PWRY PWYR RPWY
AGS	AGS ASG GAS	APWR	apwr Arpw Pwar		RYG YGR YRG	RSS	RSS SRS SSR	1	rypw Ypwr Yrpw
	GSA SAG SGA		PWRA RAPW RPWA	GSS	GSS SGS SSG	RSY	RSY RYS SRY	PWSS	PWSS SPWS SSPW
AGY	AGY AYG GAY	APWS	APWS ASPW PWAS	GSY	GSY GYS SGY		SYR YRS YSR	PWSY	PWSY PWYS SPWY
	gya Yag Yga		PWSA SAPW SPWA		SYG YGS YSG	RYY	RYY YRY YYR		SYPW YPWS YSPW
AGPW	AGPW APWG GAPW	APWY	APWY Aypw Pway	GYY	GYY YGY YYG	SSS	SSS	PWYY	PWYY YPWY YYPW
	gpwa Pwag Pwga		pwya Yapw Ypwa	GPWPW	gpwpw Pwgpw Pwpwg	SSY	SSY SYS YSS		
ARR	ARR RAR RRA					SYY	SYY YSY YYS		

Note: LED built-in models available.

SLD30N

DIN36mm Square (lens size 28mm square)

Specifications



Input	Full Voltage	Transformer	DC-DC Converter			
Rated Voltage	24V AC/DC 24V DC (Note 1)	100/110, 115/120, 200/220, 230/240V AC	110V DC			
Light Source	1-color LED unit 2-color LED unit (Note 2)	1-color LED unit				
LED Life (reference)	Approx. 50,000 hours (w reduces to 50% of the ir		C at 25°C, brightness			
Illumination Face	Full					
Illumination Color	Amber, Green, Pure White, Red, Blue, Yellow Red/Green (Note 2)	ow Amber, Green, Pure White, Red, Blue, Yellow				
Color Screen (supplied)	Combination of white and clear color screens					
Color Screen Size	$27 \times 27 \times 1$ mm (marking	g film 27 $ imes$ 27 $ imes$ 0.2 mm c	can be inserted)			
Engraving Area	25 × 25 mm					
Insulation Resistance	Between live and dead p	parts: 100 M Ω minimum (500V DC megger)			
Dielectric Strength	Between live and dead p	oarts: 2000V, 1 minute	2500V, 1 minute			
Vibration Resistance	5 to 55 Hz, amplitude 0.	5 mm				
Shock Resistance	1000 m/s² (100G)					
Operating Temperature	–20 to +40°C (no freezin	g)	-10 to +40°C (no freezing)			
Storage Temperature	–30 to +80°C (no freezing)					
Operating Humidity	45 to 85% RH (no condensation)					
Housing Color	Black (Munsell N1.5 or equivalent)					
Weight (approx.)	38g (1-color full) 43g (w/check terminal) 43g (2-color alternate)	85g (1-color full)	53g (1-color full)			

Note 1: 24V DC is only for units with a check terminal. Note 2: For 2-color alternate only.

SLD30N

Input	Illumination Face	Rated Voltage	Part No.	Illumination Color Code	Built-in LED Unit (see ratings on page 17)
	1-color Full	24V AC/DC	SLD30N-1DH2B*	A, G, PW, R, S, Y	
Full Voltage	1-color Full w/check terminal	24V DC	SLD30N-1DHM2B*	A, G, PW, R, S, Y	SLDN-32M-*T
	2-color Alternate	24V AC/DC	SLD30N-1DW2BRG	RG (red/green)	SLDN-32MW-RGT
	1-color Full	100/110V AC	SLD30N-1TH1B*	A, G, PW, R, S, Y	
 Transformer		115/120V AC	SLD30N-1TH12B*	A, G, PW, R, S, Y	
Transformer		200/220V AC	SLD30N-1TH2B*	A, G, PW, R, S, Y	SLDN-32M-*T
		230/240V AC	SLD30N-1TH24B*	A, G, PW, R, S, Y	
DC-DC Converter	1-color Full	110V DC (90 to 140V DC)	SLD30N-1CH1B*	A, G, PW, R, S, Y	

Specify a color code in place of * in the Part No.: A (amber), G (green), PW (pure white), R (red), S (blue), Y (yellow).
The above SLD30N units contain an LED unit of the specified color. LED units are installed in the SLD30N housings at the factory. See page 17 for maintenance LED units.

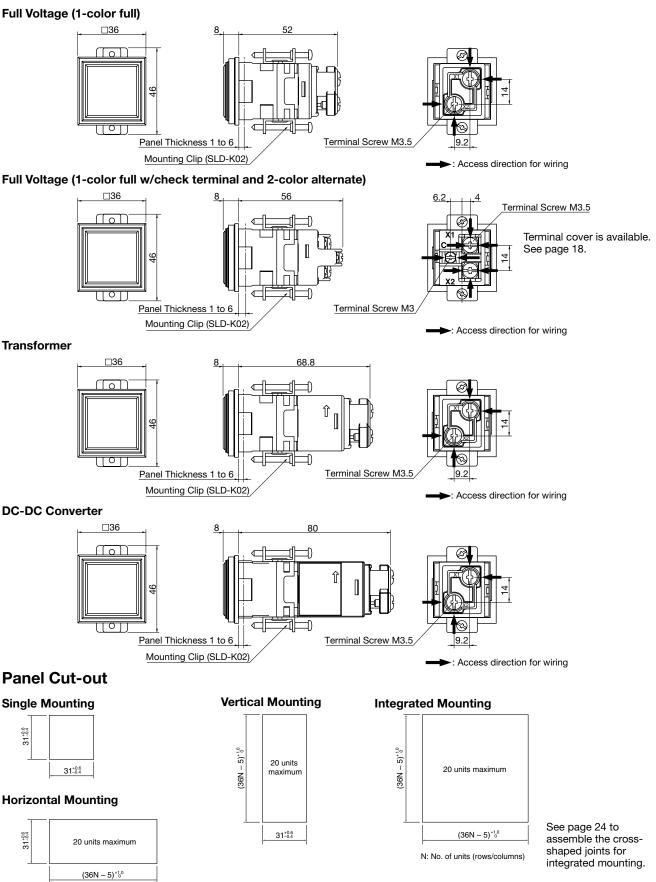
• Every SLD30N unit contains a clear and white color screen. When colored display is required during power off, order a color screen separately and replace the clear color screen with the color screen. For instructions, see page 22.

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DIN36mm Square (lens size 28mm square)

Dimensions



When using leaf springs for temporary fastening, order SLD-30KVP separately. See page 18.

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SLD44N

40mm Square (lens size 32mm square)

Specifications



Input	Full Voltage	Transformer	DC-DC Converter			
Rated Voltage	24V AC/DC, 24V DC (Note 1)	100/110, 115/120, 200/220, 230/240V AC	110V DC			
Light Source	1-color LED unit 2-color LED unit (Note 2)	1-color LED unit				
LED Life (reference)	Approx. 50,000 hours (w reduces to 50% of the ir		C at 25°C, brightness			
Face Division	Full					
Illumination Color	Amber, Green, Pure white, Red, Blue, Yellow Red/Green (Note 2)	Amber, Green, Pure White, Red, Blue, Yellow				
Color Screen (supplied)	Combination of clear and	d white color screens				
Color Screen Size	31 × 31 × 1 mm (marking film 31 × 31 × 0.2 mm can be inserted)					
Engraving Area	29 × 29 mm					
Insulation Resistance	Between live and dead p	parts: 100 M Ω minimum (500V DC megger)			
Dielectric Strength	Between live and dead p	oarts: 2000V, 1 minute	2500V, 1 minute			
Vibration Resistance	5 to 55 Hz, amplitude 0.	5 mm				
Shock Resistance	1000 m/s² (100G)					
Operating Temperature	-20 to +40°C (no freezing	g)	-10 to +40°C (no freezing)			
Storage Temperature	–30 to +80°C (no freezing)					
Operating Humidity	45 to 85% RH (no condensation)					
Housing Color	Black (Munsell N1.5 or equivalent)					
Weight (approx.)	46g (1-color full) 49g (w/check terminal) 49g (2-color alternate)	93g (1-color full)	60g (1-color full)			

Note 1: 24V DC is only for units with a check terminal. Note 2: For 2-color alternate only.

SLD44N

Input	Illumination Face	Rated Voltage	Part No.	Illumination Color Code	Built-in LED Unit (see ratings on page 17)	
	1-color Full	24V AC/DC	SLD44N-1DH2B*	A, G, PW, R, S, Y		
Full Voltage	1-color Full w/check terminal	24V DC	SLD44N-1DHM2B*	A, G, PW, R, S, Y	SLDN-92M-*T	
	2-color Alternate	24V AC/DC	SLD44N-1DW2BRG	RG (red/green)	SLDN-92MW-RGT	
	1-color Full	100/110V AC	SLD44N-1TH1B*	A, G, PW, R, S, Y		
Transformer		115/120V AC	SLD44N-1TH12B*	A, G, PW, R, S, Y		
Transformer		200/220V AC	SLD44N-1TH2B*	A, G, PW, R, S, Y	SLDN-92M-*T	
		230/240V AC	SLD44N-1TH24B*	A, G, PW, R, S, Y		
DC-DC Converter	1-color Full	110V DC (90 to 140V DC)	SLD44N-1CH1B*	A, G, PW, R, S, Y		

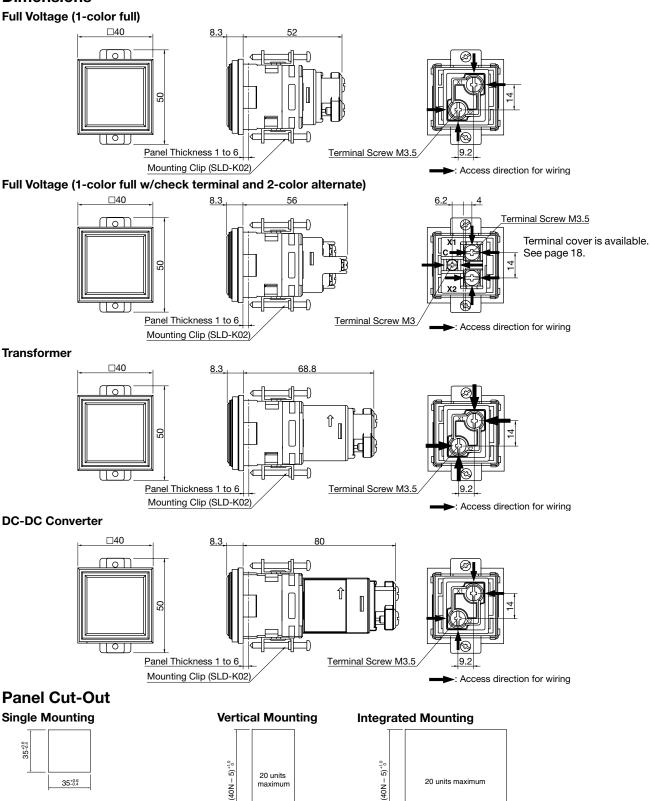
Specify a color code in place of * in the Part No.: A (amber), G (green), PW (pure white), R (red), S (blue), Y (yellow).
The above SLD44N units contain an LED unit of the specified color. The LED unit is installed in the SLD44N housing at the factory. See page 17 for maintenance LED units.

• Every SLD44N unit contains a clear and white color screen. When colored display is required during power off, order a color screen separately and replace the clear color screen with the color screen. For instructions, see page 22.

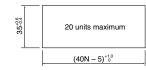


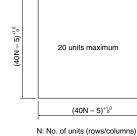
40mm Square (lens size 32mm square)

Dimensions



Horizontal Mounting





See page 24 to assemble the crossshaped joints for integrated mounting.

When using leaf springs for temporary fastening, order SLDN-44KVP separately. See page 18.

35-0.4

All dimensions in mm.

8

DIN36 \times 72mm (lens size 28 \times 64mm)





Specifications

Input	Full Voltage	Transformer	DC-DC Converter			
Rated Voltage	24V AC/DC 24V DC (Note 1)	100/110, 115/120, 200/220, 230/240V AC	110V DC			
Light Source	1-color LED unit 2-color LED unit (Note 2)	1-color LED unit				
LED Life (reference)	Approx. 50,000 hours (when used on comp	lete DC at 25°C, brightness reduce	es to 50% of the initial intensity)			
Face Division	Full, 2-way split, 3-way split (Note 2)	Full, 2-way split, 3-way split	Full			
Illumination Color	Amber, Green, Pure White, Red, Blue, Yellow, Red/Green (Note 2)	Amber, Green, Pure, Red, Blue, Y	/ellow			
Color Screen (supplied)	Combination of clear and white color scree	n				
Color Screen Size	Full: 27 × 63 × 1 mm (marking film 27 × 63 2-way split: 27 × 31.5 × 1 mm 3-way split: 27 × 21 × 1 mm					
Engraving Area	Full: 25 × 61 × 1.0 mm 2-way split: 25 × 29.5 × 1.0 mm 3-way split: 25 × 19 × 1.0 mm					
Insulation Resistance	Between live and dead parts: 100 M Ω minir	num (500V DC megger)				
Dielectric Strength	Between live and dead parts: 2000V, 1 minu	ute	2500V, 1 minute			
Vibration Resistance	5 to 55 Hz, amplitude 0.5 mm		·			
Shock Resistance	1000 m/s² (100G)					
Operating Temperature	–20 to +40°C (no freezing)		-10 to +40°C (no freezing)			
Storage Temperature	-30 to +80°C (no freezing)					
Operating Humidity	45 to 85% RH (no condensation)					
Housing Color	Black (Munsell N1.5 or equivalent)					
Weight (approx.)	78g (1-color full, 2-way split) 86g (w/check terminal, 2-color alternate) 89g (3-way split)	172g (1-color full, 2-way split) 245g (3-way split)	107g (1-color full)			

Note 1: 24V DC is only for units with a check terminal. Note 2: The 2-color alternate is full face illumination only.

DIN36 \times 72mm (lens size 28 \times 64mm)

SLD72N (with LED units installed in housing)

The LED units are built-in the SLD72N at the factory. The LED unit can be replaced using an exclusive tool (MT-101).

Input	Illumination Face	Rated Voltage	Part No.	Illumination Color Code	Built-in LED Units (see ratings on page 17)	
	1-color Full	24V AC/DC	SLD72N-1DH2B*	A, G, PW, R, S, Y	SLDN-92M-*T (2 units)	
	1-color Full w/check terminal	24V DC	SLD72N-1DHM2B*	A, G, PW, R, S, Y	SLDN-92M-*T (2 units)	
Full Voltage	2-way Split	24V AC/DC	SLD72N-2DH2BGR	GR		
Ŭ	2-way Spin	24V AC/DC	SLD72N-2DH2BRG	RG	SLDN-92M-*T (2 units)	
	3-way Split	24V AC/DC	SLD72N-3DH2BGAR	GAR	SLDN-72M-*T (3 units)	
	2-color Alternate	24V AC/DC	SLD72N-1DW2BRG	RG (red/green)	SLDN-92MW-RGT (2 units)	
	1-color Full		SLD72N-1TH□B∗	A, G, PW, R, S, Y	SLDN-92M-*T (2 units)	
Tranafarmar	0 way Calit	100/110, 115/120,	SLD72N-2TH□BGR	GR		
Transformer	2-way Split	200/220, 230/240V AC	SLD72N-2TH□BRG	RG	SLDN-92M-*T (2 units)	
	3-way Split		SLD72N-3TH□BGAR	GAR	SLDN-72M-*T (3 units)	
DC-DC Converter	1-color Full	110V DC (90 to 140V DC)	SLD72N-1CH1B*	A, G, PW, R, S, Y	SLDN-92M-*T (2 units)	

Specify a color code in place of * in the Part No. : A (amber), G (green), PW (pure white), R (red), S (blue), Y (yellow).
Specify a rated voltage code of the transformer in place of □ in the Part No.:

1 (100/110V AC), 12 (115/120V AC), 2 (200/220V AC), 24 (230/240V AC).

• The above SLD72N units contain LED units of the specified color. See page 17 for maintenance LED units.

• Every SLD72N unit contains a clear and white color screen. When colored display is required during power off, order a color screen separately and replace the clear color screen with a color screen. For instructions, see page 22.

SLD72N (with LED units supplied in package)

The LED units are not built-in but supplied in the same packaging. Color combination can be selected by the customer.

Input	Illumination Face	Rated Voltage	Part No.	Illumination Color Code	Supplied LED Units (see ratings on page 17)
	2-way Split	24V AC/DC	SLD72N-2DH2B**	A, G, PW, R, S, Y	SLDN-92M-*T (2 units)
Full Voltage	3-way Split	24V AC/DC	SLD72N-3DH2B***	A, G, PW, R, S, Y	SLDN-72M-*T (3 units)
Transformer	2-way Split	100/110, 115/120, 200/220,	SLD72N-2TH□B**	A, G, PW, R, S, Y	SLDN-92M-*T (2 units)
Transformer	3-way Split	230/240V AC	SLD72N-3TH□B***	A, G, PW, R, S, Y	SLDN-72M-*T (3 units)

• Specify a color code in place of * in the Part No. : A (amber), G (green), PW (pure white), R (red), S (blue), Y (yellow). See page 4 for color designation.

• Specify a rated voltage code of the transformer in place of \Box in the Part No.:

1 (100/110V AC), 12 (115/120V AC), 2 (200/220V AC), 24 (230/240V AC).

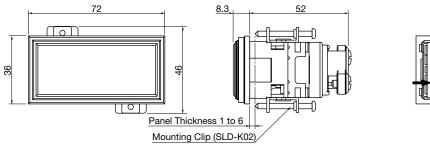
• The above SLD72N units contain LED units of the specified color. See page 17 for maintenance LED units.

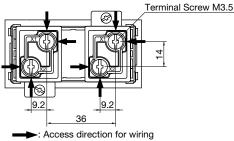
• Every SLD72N unit contains a clear and white color screen. When colored display is required during power off, order a color screen separately and replace the clear color screen with a color screen. For instructions, see page 22.

DIN36 \times 72mm (lens size 28 \times 64mm)

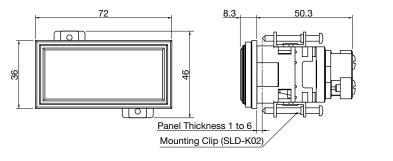
Dimensions

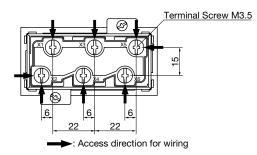
Full Voltage (1-color full and 2-way split)



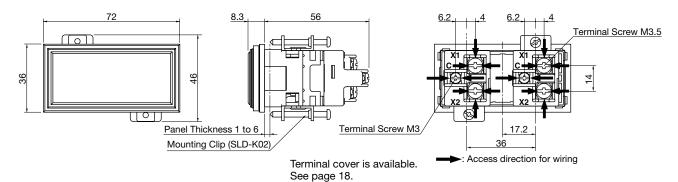


Full Voltage (3-way split)

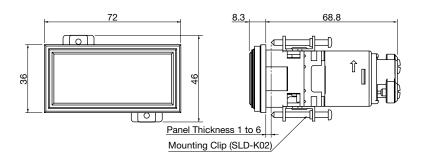


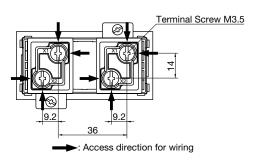


Full Voltage (1-color full w/check terminal and 2-color alternate)



Transformer (1-color full and 2-way split)





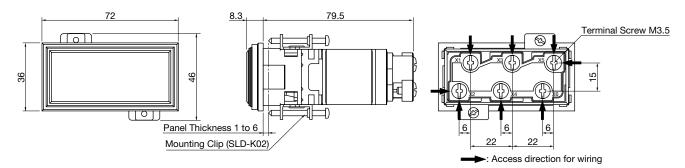
When using leaf springs for temporary fastening, order SLD-30KVP or SLD-7KVP separately. See page 18.

All dimensions in mm.

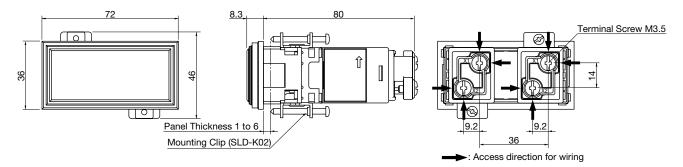
DIN36 \times 72mm (lens size 28 \times 64mm)

Dimensions

Transformer (3-way split)

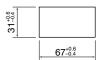


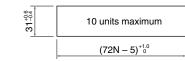
DC-DC Converter



Panel Cut-out Single Mounting

Horizontal Mounting

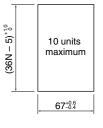




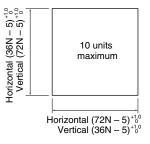
N: No. of units (rows/columns)

When using leaf springs for temporary fastening, order SLD-30KVP or SLD-7KVP separately. See page 18.

Vertical Mounting



Integrated Mounting



See page 26 to assemble the crossshaped joints for integrated mounting.

All dimensions in mm.

40×80 mm (lens size 32×72 mm)





Specifications

Input	Full Voltage	Transformer	DC-DC Converter			
Rated Voltage	24V AC/DC 24V DC (Note 1)	100/110, 115/120, 200/220, 230/240V AC	110V DC			
Light Source	1-color LED unit 2-color LED unit (Note 2)	1-color LED unit				
LED Life (reference)	Approx. 50,000 hours (when used on comp	lete DC at 25°C, brightness reduc	es to 50% of the initial intensity)			
Face Division	Full, 2-way split, 3-way split (Note 2)	Full, 2-way split, 3-way split	Full			
Illumination Color	Amber, Green, Pure White, Red, Blue, Yellow, Red/Green (Note 2)	Amber, Green, Pure White, Red,	Blue, Yellow			
Color Screen (supplied)	Combination of clear and white color scree	n				
Color Screen Size	Full: $31 \times 71 \times 1$ mm (marking film $31 \times 71 \times 0.2$ mm can be inserted) 2-way split: $31 \times 35.5 \times 1$ mm 3-way split: $31 \times 23.5 \times 1$ mm					
Engraving Area	Full: 29 × 69 ×1.0 mm 2-way split: 29 × 33.5 × 1.0 mm 3-way split: 29 × 21.5 × 1.0 mm					
Insulation Resistance	Between live and dead parts: 100 M Ω minir	mum (500V DC megger)				
Dielectric Strength	Between live and dead parts: 2000V, 1 minu	ute	2500V, 1 minute			
Vibration Resistance	5 to 55 Hz, amplitude 0.5 mm					
Shock Resistance	1000 m/s² (100G)					
Operating Temperature	-20 to +40°C (no freezing)		-10 to +40°C (no freezing)			
Storage Temperature	-30 to +80°C (no freezing)					
Operating Humidity	45 to 85% RH (no condensation)					
Housing Color	Black (Munsell N1.5 or equivalent)					
Weight (approx.)	92g (1-color full, 2-way split) 100g (w/check terminal, 2-color alternate) 102g (3-way split)	186g (1-color full, 2-way split) 259g (3-way split)	121g (1-color full)			

Note 1: 24V DC is only for units with a check terminal. Note 2: The 2-color alternate is full face illumination only.

40 × 80mm (lens size 32 × 72mm)

SLD48N (with LED units installed in housing)

The LED units are built-in the SLD72N at the factory. The LED unit can be replaced using an exclusive tool (MT-101).

Input	Illumination Face	Rated Voltage	Part No.	Illumination Color Code	Built-in LED Units (see ratings on page 17)	
	1-color Full	24V AC/DC	SLD48N-1DH2B*	A, G, PW, R, S, Y	SLDN-92M-*T (2 units)	
	1-color Full w/check terminal	24V DC	SLD48N-1DHM2B*	A, G, PW, R, S, Y	SLDN-92M-*T (2 units)	
Full Voltage	2 way Split	24V AC/DC	SLD48N-2DH2BGR	GR		
Ŭ	2-way Split	24V AC/DC	SLD48N-2DH2BRG	RG	SLDN-92M-*T (2 units)	
	3-way Split	24V AC/DC	SLD48N-3DH2BGAR	GAR	SLDN-72M-*T (3 units)	
	2-color Alternate	24V DC	SLD48N-1DW2BRG	RG (red/green)	SLDN-92MW-RGT (2 units)	
	1-color Full		SLD48N-1TH□B∗	A, G, PW, R, S, Y	SLDN-92M-*T (2 units)	
Tranafarmar	0 way Calit	100/110, 115/120,	SLD48N-2TH□BGR	GR		
Transformer	2-way Split	200/220, 230/240V AC	SLD48N-2TH□BRG	RG	SLDN-92M- * T (2 units)	
	3-way Split	··-	SLD48N-3TH□BGAR	GAR	SLDN-72M-*T (3 units)	
DC-DC Converter	1-color Full	110V DC (90 to 140V DC)	SLD48N-1CH1B*	A, G, PW, R, S, Y	SLDN-92M-*T (2 units)	

• Specify a color code in place of * in the Part No. : A (amber), G (green), PW (pure white), R (red), S (blue), Y (yellow).

• Specify a rated voltage code of the transformer in place of \Box in the Part No.:

1 (100/110V AC), 12 (115/120V AC), 2 (200/220V AC), 24 (230/240V AC).

• The above SLD72N units contain LED units of the specified color. See page 17 for maintenance LED units.

• Every SLD72N unit contains a clear and white color screen. When colored display is required during power off, order a color screen separately and replace the clear color screen with a color screen. For instructions, see page 22.

SLD48N (with LED units supplied in package)

The LED units are not built-in but supplied in the same packaging. Color combination can be selected by the customer.

Input	Illumination Face	Rated Voltage	Part No.	Illumination Color Code	Supplied LED Units (see ratings on page 17)
Full Voltage	2-way Split	24V AC/DC	SLD48N-2DH2B**	A, G, PW, R, S, Y	SLDN-92M-*T (2 units)
Full voltage	3-way Split	24V AO/DC	SLD48N-3DH2B***	A, G, PW, R, S, Y	SLDN-72M-*T (3 units)
Transformer	2-way Split	100/110, 115/120, 200/220,	SLD48N-2TH□B**	A, G, PW, R, S, Y	SLDN-92M-*T (2 units)
Transformer	3-way Split	230/240V AC	SLD48N-3TH□B***	A, G, PW, R, S, Y	SLDN-72M-*T (3 units)

• Specify a color code in place of * in the Part No. : A (amber), G (green), PW (pure white), R (red), S (blue), Y (yellow). See page 4 for color designation.

• Specify a rated voltage code of the transformer in place of \Box in the Part No.:

1 (100/110V AC), 12 (115/120V AC), 2 (200/220V AC), 24 (230/240V AC).

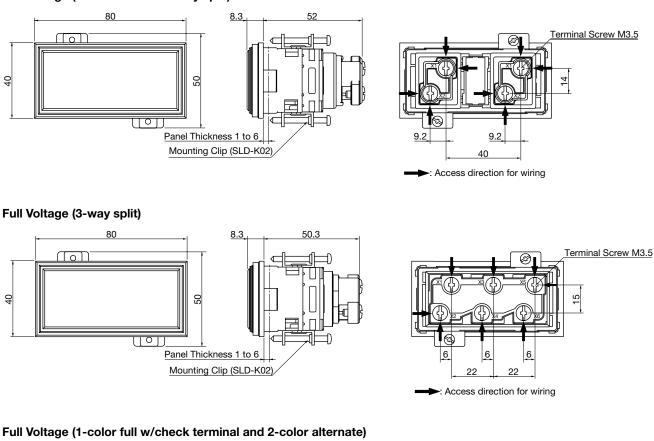
• The above SLD72N units contain LED units of the specified color. See page 17 for maintenance LED units.

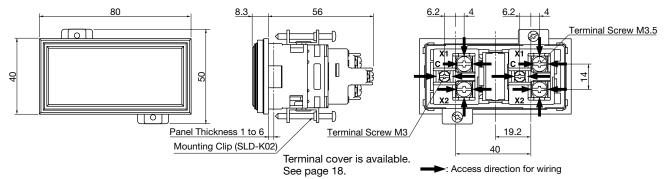
• Every SLD72N unit contains a clear and white color screen. When colored display is required during power off, order a color screen separately and replace the clear color screen with a color screen. For instructions, see page 22.

 40×80 mm (lens size 32×72 mm)

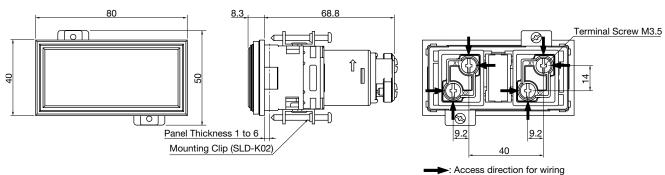
Dimensions

Full Voltage (1-color full and 2-way split)





Transformer (1-color full and 2-way split)



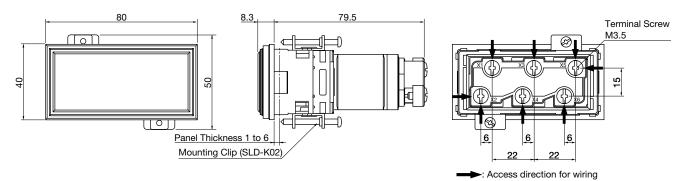
When using leaf springs for temporary fastening, order SLDN-44KVP or SLDN-8KVP separately. See page 18.

All dimensions in mm.

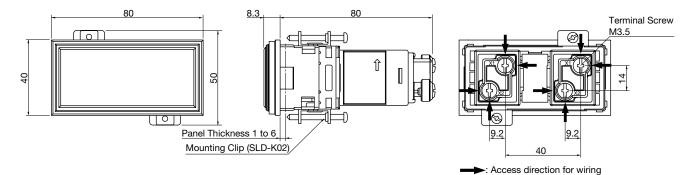
40×80 mm (lens size 32×72 mm)

Dimensions

Transformer (3-way split)



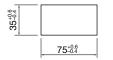
DC-DC Converter

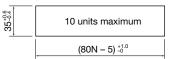


Panel Cut-out

Single Mounting

Horizontal Mounting

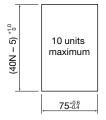




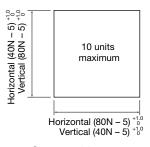
N: No. of units (rows/columns)

When using leaf springs for temporary fastening, order SLDN-44KVP or SLDN-8KVP separately. See page 18.

Vertical Mounting



Integrated Mounting



See page 26 to assemble the crossshaped joints for integrated mounting.

All dimensions in mm.

Maintenance LED Units

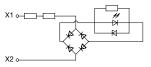
24V AC/DC (1-color) and 24V DC (2-color)

Shape	Applicable Model	Part No.	Illumination Color	Rating	Package Quantity	
		SLDN-32M-AT	Amber	24V AC/DC, 12 mA		
and the second		SLDN-32M-GT	Green	24V AC/DC, 11 mA		
11 11 11		SLDN-32M-PWT	Pure White	24V AC/DC, 11 mA		
1	SLD30N	SLDN-32M-RT	Red	24V AC/DC, 12 mA	1	
		SLDN-32M-ST	Blue	24V AC/DC, 11 mA		
		SLDN-32M-YT	Yellow	24V AC/DC, 11 mA		
(supplied)		SLDN-32MW-RGT	Red/Green	24V DC, 12 mA (red)/11 mA (green)		
		SLDN-92M-AT	Amber	24V AC/DC, 12 mA		
	SLD44N	SLDN-92M-GT	Green	24V AC/DC, 11 mA]	
	SLD72N	SLDN-92M-PWT	Pure White	24V AC/DC, 11 mA		
<u> </u>	(Full/2-way split)	SLDN-92M-RT	Red	24V AC/DC, 12 mA	1	
	SLD48N	SLDN-92M-ST	Blue	24V AC/DC, 11 mA		
	(Full/2-way split)	SLDN-92M-YT	Yellow	24V AC/DC, 11 mA		
(supplied)		SLDN-92MW-RGT	Red/Green	24V DC, 12 mA (red)/11 mA (green)		
		SLDN-72M-AT	Amber	24V AC/DC, 12 mA		
T	SLD72N	SLDN-72M-GT	Green	24V AC/DC, 11 mA		
	(3-way split)	SLDN-72M-PWT	Pure White	24V AC/DC, 11 mA] _	
	SLD48N	SLDN-72M-RT	Red	24V AC/DC, 12 mA		
	(3-way split)	SLDN-72M-ST	Blue	24V AC/DC, 11 mA		
(supplied)		SLDN-72M-YT	Yellow	24V AC/DC, 11 mA		

LED Unit Internal Circuits

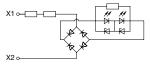
SLDN-32M-*T



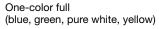


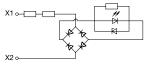
SLDN-92M-*T

One-color full (blue, green, pure white, yellow)

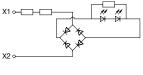


SLDN-72M-*T

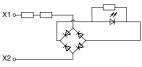






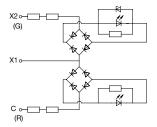






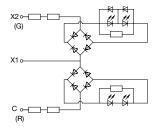
SLDN-32MW-RGT

2-way split (two-color alternate)



SLDN-92MW-RGT

2-way split (two-color alternate)





Accessories

			·			
Name & Shape	Applicable Model	Material	Part No.	Ordering No.	Package Quantity	Remarks
LED Unit Removal Tool	All SLDN	Metal	MT-101	MT-101	1	Used to remove the LED unit from the SLDN housing.
Lens Unit Removal Tool	All SLDN	Rubber	MT-S01	MT-S01	1	Used to remove the lens unit from the SLDN housing.
Cross-shaped Joint	SLD30N SLD72N	Discost	SLD-F30	SLD-F30PN05	5	Used to connect SLDN units for
1 Marth	SLD44N SLD48N	Diecast	SLD-F44	SLD-F44PN05	5	integrated mounting. Weight: 25g
I-shaped Joint	SLD72N	Diecast	SLD-L72	SLD-L72PN05	5	Used to connect cross-shaped joint on the longer sides of the SLD72N or
	SLD48N	Diecast	SLD-L48	SLD-L48PN05	5	SLD48N for integrated mounting. Weight: 10g
Terminal Cover	All SLDN w/check terminal, 2-color alternate	PPE	SLC30-VL6	SLC30-VL6	1	Terminal cover for 1-color w/check terminal and 2-color alternate.

Leaf Springs

Appliaghla Madal	Part No. (Horiz	ontal Mounting)	Part No. (Vertical Mounting)	
Applicable Model	Туре А	Туре В	Туре А	Type B
SLD30N	SLD30KVP	-	SLD30KVP	-
SLD44N	SLDN-44KVP	-	SLDN-44KVP	—
SLD72N	SLD30KVP	SLD-7KVP	SLD30KVP	SLD-7KVP
SLD48N	SLDN-44KVP	SLDN-8KVP	SLDN-44KVP	SLDN-8KVP

• See page 24 for instructions on mounting leaf springs.

Maintenance Parts

Name & Shape	Applica	ble Model	Material	Part No.	Ordering No.	Package Quantity	Remarks
Mounting Clip	All SLDN		Metal	SLD-K02	SLD-K02PN10	10	Used to fasten SLDN units to the panel from the rear in single, row, or integrated mounting. Two mounting clips are supplied with every SLDN unit. Weight: 6g
Color Screen	SLD30N	Full		SLDN-3C-*	SLDN-3C-*PN05		Specify a color code in place
	SLD44N	Full		SLDN-44C-*	SLDN-44C-*PN05		of *. White display when power off:
		Full		SLDN-7C-*	SLDN-7C-*PN05		FW (white)
	SLD72N	2-way split		SLDN-7C2-*	SLDN-7C2-*PN05	_	Colored display when power off
		3-way split	Acrylic	SLDN-7C3-*	SLDN-7C3-*PN05	5	(sold separately): A (amber), C (clear)
		Full	SLDN	SLDN-8C-*	SLDN-8C-*PN05		G (green), R (red) S (blue), Y (yellow) See page 23 for details on
	SLD48N	2-way split		SLDN-8C2-*	SLDN-8C2-*PN05		
		3-way split		SLDN-8C3-*	SLDN-8C3-*PN05		color screen.
Lens (supplied)	SLD30N			SLC-3LF-U	SLC-3LF-U		□28 H2.8
	SLD44N		Polycar-	SLD-44L	SLD-44L	1	□32 H2.6
	SLD72N		bonate	SLD-7L	SLD-7L	I	W72 D32 H2.6
	SLD48N			SLD-8L	SLD-8L		W64 D28 H2.6
Lens Frame (supplied)	SLD30N			SLD-3W-B	SLD-3W-B		
	SLD44N		ABS	SLDN-44W-B	SLDN-44W-B	1	
	SLD72N		7.80	SLDN-7W-B	SLDN-7W-B		
	SLD48N			SLDN-8W-B	SLDN-8W-B		
Light Barrier (supplied)	SLD72N	2-way split 3-way split	PBT	SLDN-7SH	SLDN-7SHPN05	5	
	SLD48N	2-way split		SLDN-8SH	SLDN-8SHPN05	5	

18

Maintenance Parts

Jumpers

Арр	licable Model	Part No.	Ordering No.	Package Quantity	Dimensions	Application Example	
SLD30N	w/Check Terminal 2-color Alternate	LJ-2	LJ-2PN10	10	36.0	• SLD30N/SLD44N 1-color	
	Full	SLDN-JP301	SLDN-JP301PN10	10		-	
	Full 2-way Split				Protection Sheath 0.5mm thick		
SLD72N	3-way Split	SLDN-JP723	SLDN-JP723PN10	10	28.0 22.0 22.0 Protection Sheath 0.5mm thick	SLD72N/SLD48N 3-way split	
	w/Check Terminal 2-color Alternate			36.0 0.5mm thick			
SLD44N	w/Check Terminal 2-color Alternate	LJ-6	LJ-6PN10	10	40.0 0.5mm thick		
	Full	SLCN-JP45	SLCN-JP45PN10	10			
	Full 2-way Split				Protection Sheath 0.5mm thick		
SLD48N	3-way Split	SLDN-JP483	SLDN-JP483 SLDN-JP483PN10		36.0 22.0 22.0 Protection Sheath 0.5mm thick		
	w/Check Terminal 2-color Alternate	LJ-6	LJ-6PN10	10	40.0	SLD72N/SLD48N w/check terminal, 2-color	

Transformer

Shape	Rated Voltage	Operating Voltage	Part No.	Package Quantity
	100/110V AC	100/110V AC ±10%	TWR512	1
	200/220V AC	200/220V AC ±10%	TWR522	1
(🕬	400/440V AC	400/440V AC ±10%	TWR542	1

• Terminal covers (TWR-VL3) are supplied.

Applicable LED Units

SLDN	LED Unit Part No.	Can be used with	
SLD30N	SLDN-32M-*T Full face illumination		
SLD44N	SLDN-92M-*T Full face illumination		
SLD72N	SLDN-92M-*T	Full face and 2-way split illumination	
	SLDN-72M-*T	3-way split illumination, 24V AC	
SLD48N	SLDN-92M-*T	Full face and 2-way split illumination	
SLD40N	SLDN-72M-*T	3-way split illumination, 24V AC	

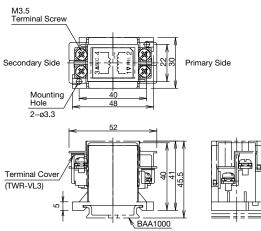
Only one LED unit can be connected to each transformer.
Specify the color code in place of * in the Part No.

Specifications

•		-
Rated Voltage	100/110V AC, 200/220V AC, 400/440V AC (50/60 Hz)	м
Power Consumption	2.4VA	Te
Rated Insulation Voltage	600V	
Insulation Resistance	100 MΩ minimum (500V DC megger)	
Dielectric Strength	2500V AC, 1 minute	Seco
Operating Temperature	-30 to +60°C (no freezing)	
Storage Temperature	-40 to +80°C (no freezing)	
Relative Humidity	35 to 85% (no condensation)	
Vibration Resistance	Operating Extremes: 5 to 55 Hz, amplitude 0.5 mm Damage Limits: 30 Hz, amplitude 1.5 mm	
Shock Resistance	Operating Extremes: 100 m/s ² Damage Limits:1,000 m/s ²	Term
Terminal Screw	M3.5	(TWF
Applicable Wire	2 mm ² maximum, 2 wires maximum]
Weight	Approx. 87g]

Dimensions

Dimensions in mm.



Accessories

Name	Shape	Description	Part No.	Ordering No.	Package Quantity
DIN Rail		Aluminum Weight: Approx. 200g Length: 1m	BAA1000	BAA1000PN10	
	(FZ) 45 0	Steel Weight: Approx.15g	BNL6	BNL6PN10	10
End Clip		Plastic Weight: Approx.15g	BC9Z-E/NS35N	BC9Z-E/NS35NPN10	

Notes for Ordering

- 1. When ordering SLDN units and accessories, specify the Part No. and quantity.
- 2. LED units for 2-way or 3-way split illumination SLD72N and SLD48N units are not built in the SLDN unit at the factory but supplied in the package. However, 2-way split with color combination RG and 3-way split with color combination GAR have LED units built-in at factory. (All colors of full illumination units have LED units builtin.)
- 3. All SLDN units are supplied with two mounting clips. Leaf springs are not supplied. When using leaf springs for temporary fastening, order applicable leaf springs separately. See pages 18.
- 4. All SLDN units are supplied with a clear color screen with full face size and white color screens of the specified split face size. When colored display is required during power off, order color screens of the split face size and replace with the clear color screen. See page 22.

Safety Precautions

- Turn off the power to the SLDN 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 electrical shock, fire hazards, or damages.
- Do not use the SLDN 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 SLDN units continuously, observe the conditions described in "Notes for Continuous Lighting".
 If the limits are exceeded, the units may heat up and create fire hazards or cause damages.

5. Jumpers supplied with SLDN units are as listed in the table below.

Applicable Model		Jumper Part No. (For use as split illumination)	Jumper Part No. (For use as full illumination)
SLD72N	2-way spilt models	SLDN-JP301	SLDN-JP301 (× 2 pcs)
SLD72N	3-way split models	SLDN-JP723	-
SLD48N	2-way spilt models	SLCN-JP45	SLCN-JP45 (× 2 pcs)
3LD40N	3-way split models	SLDN-JP483	_

- 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.

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

• Do not install or operate the SLDN units where they are are subjected to direct sunlight. Excessive heating may create fire hazards or damage the units.

Illumination Units

Removing the Display Window

To remove the display window, insert the tip of a flat screwdriver into the slot on top or bottom of the lens frame. Lens unit removal tool MT-S01 can also be used to remove the display window.

Replacing the Lens and Color Screen

[Removal]

The lens has two retaining projections each on right and left sides. To remove the lens and color screens 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. Since the lens has an orientation due to projections, be sure to insert the screwdriver in the direction as shown. Take care not to damage or scratch the lens surface.

[Installation]

Install the color screens 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.

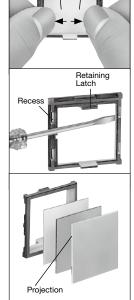
Replacing the LED Unit [Removal]

Use the LED unit removal tool (MT-101) to pull out the LED unit.

[Installation]

The LED unit has an orientation. To install the LED unit, place the voltage marking on the LED unit in the same direction as the TOP marking on the on the LED unit, and push in the LED unit.

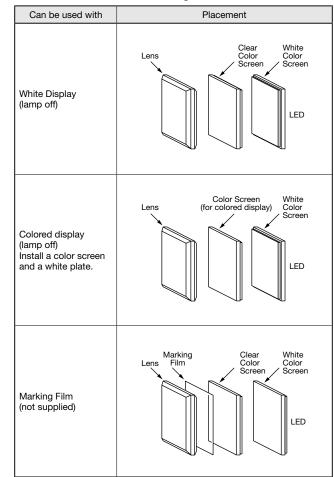






Placement of Color Screens

Insert color screens and marking film as described below.



Clear color screen and white color screen can be interchanged if necessary.

Notes for Continuous Lighting (Integrated Mounting)

- Up to 10 SLD30N or SLD44N units can be lit continuously. Up to six SLD72N or SLD48N units can be lit continuously. When more units are mounted, consider the following restrictions.
- \cdot When more SLDN units are mounted, do not light more than 50% of the SLDN units continuously.
- When more than 50% of the units are lit continuously, limit the lighting duration to 40 minutes. Before lighting the units again, make sure that all units have cooled down.
- When using the SLDN units in other conditions, consult IDEC.
- When using 2-color alternate units, do not light the two colors simultaneously.

Notes for Panel Mounting

- Recommended tightening torque for SLD-K02 mounting clip: 0.39 to 0.49 N·m.
- Do not repeat installation and removal of mounting clips many times. The mounting clips will become deformed and fail to ensure proper tightening.

Wiring

 Recommended tightening torque of terminal screws are shown in the table below:

Terminal Screw	Recommended Tightening Torque	Wiring Size
M3	0.6 to 1.0 N⋅m	Solid wire ø1.6mm (up to 2 wires)
M3.5	1.0 to 1.3 N⋅m	Stranded wire 2mm ² (up to 2 wires)

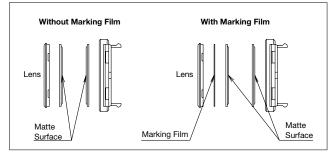
• Use an insulation sheath or marking tube on the crimping part of crimping terminals to prevent electrical shocks.

Marking

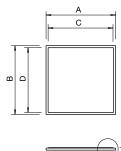
• Markings can be engraved on clear color screens (or other color screens) and white color screens as well as inserting marking films. Two sheets of 0.1-mm-thick films or one sheet of 0.2-mm-thick film is applicable. Marking films are not supplied with the SLDN units and must be prepared by the user. Polyester films are recommended.

Applicable Model	Marking Film Dimensions
SLD30N	27 × 27 mm
SLD44N	31 × 31 mm
SLD72N	27 × 63 mm
SLD48N	31 × 71 mm

- When using a marking film, place the matte surfaces of the clear color screen (or other color screens) in the same direction. If the matte surfaces face with each other, the marking film cannot be inserted.
- Thin marking films can be inserted as illustrated below.

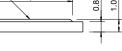


• Legends can be engraved on the clear color screens (color screens) and white color screens. Dimensions are shown below



Specifications of each SLDN units.

For marking area dimensions, see

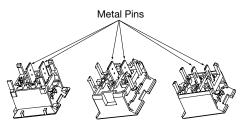


All dimensions in mm.

Applicable Model	Face	Part No.	А	В	С	D
SLD30N	Full	SLDN-3C-	27.0	27.0	25.4	25.4
SLD44N	Full	SLDN-44C-	31.0	31.0	29.4	29.4
	Full	SLDN-7C-	63.0	27.0	61.4	25.4
SLD72N	2-way split	SLDN-7C2-	31.5	27.0	29.9	25.4
	3-way split	SLDN-7C3-	21.0	27.0	19.4	25.4
	Full	SLDN-8C-	71.0	31.0	69.4	29.4
SLD48N	2-way split	SLDN-8C2-	35.5	31.0	33.9	29.4
	3-way split	SLDN-8C3-	23.5	31.0	21.9	29.4

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.



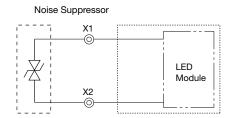
Panel Thickness

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

Notes for Using LED Units

Precautions for Noise

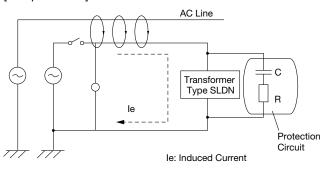
When using the SLDN unit in an environment where the SLDN is subjected to noise, connect a noise suppressor across terminals X1 and X2 as shown below.



Countermeasures against Dim Lighting

The SLDN unit contains 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 SLDN unit.

For the values of the resistor and capacitor, see the following table.

SLDN Rated	Resis	stor R	Capacitor C	
Operating Voltage	(Ω)	(W)	(μF)	
100/110V AC (50/60 Hz)	120	0.25	0.33	
200/220V AC (50/60 Hz)	120	0.25	0.10	

Installation Location

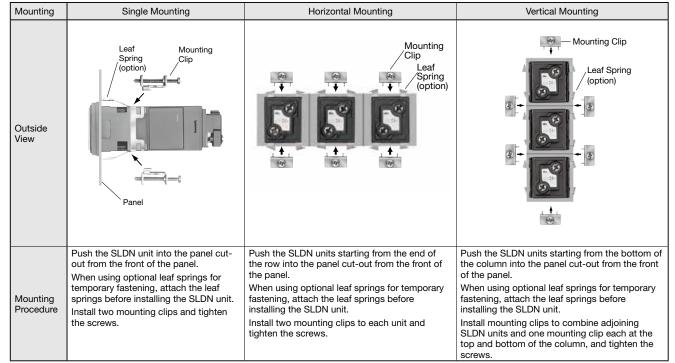
When the environment is vulnerable to infrared rays, provide appropriate protection.

Installation on Panel: SLD30N & SLD44N (Square)

Single, Horizontal, or Vertical One-row Mounting

All SLDN units are mounted using the supplied mounting clips. When using leaf springs for temporary fastening, order SLD30KVP (for SLD30N) or SLDN-44KVP (for SLD44N) separately.

A maximum of 20 SLD30N or SLD44N units can be mounted collectively in a row or integrated form.

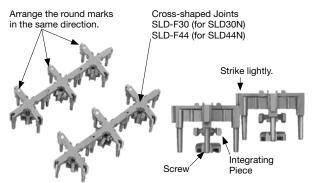


Note: Tighten the mounting clip screws to a torque of approx. 0.39 to 0.49 N·m.

Integrated Mounting

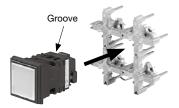
1. Assemble the cross-shaped joints.

First, assemble the cross-shaped joints in a row with round marks in the same direction. Then, combine the rows of assembled cross-shaped joints together.

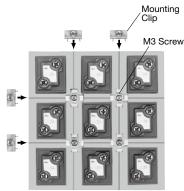


2. Lock the housings with the cross-shaped joints.

Insert the SLDN units into the assembled cross-shaped joints. Then insert the projection of the intergrating piece on the cross-shaped joints into the groove of the unit and tighten t



3. Install into panel cut-out.



Insert the joint SLDN units into the panel cut-out from the front of the panel. Install the mounting clips as shown and tighten the screws lightly to a torque of approximately 0.39 to 0.49 N·m.

Quantity of mounting clips = $(N - 1) \times 2 + (N' - 1) \times 2$

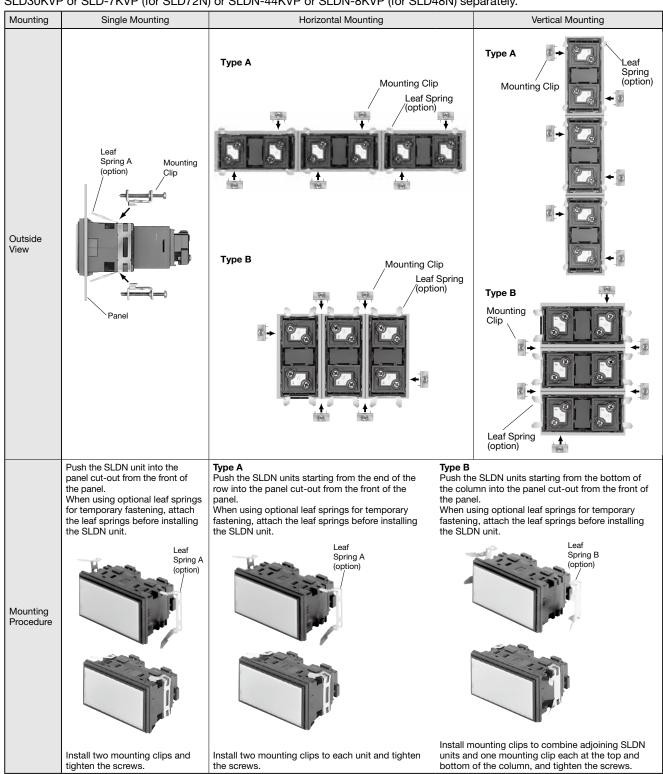
Quantity of cross-shaped joints = $(N - 1) \times (N' - 1)$ where N and N' are the numbers of rows and columns, respectively.

See page 26 on quantities of mounting clips, cross-shaped joints, and I-shaped joints used for integrated mounting.

Installation on Panel: SLD72N & SLD48N (Rectangular)

Single, Horizontal, or Vertical One-row Mounting

All SLDN units are mounted using the supplied mounting clips. When using leaf springs for temporary fastening, order SLD30KVP or SLD-7KVP (for SLD72N) or SLDN-44KVP or SLDN-8KVP (for SLD48N) separately.

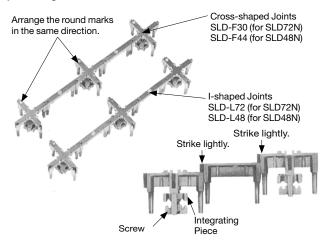


Note: Tighten the mounting clip screws to a torque of approx. 0.39 to 0.47 N·m. Leaf springs are not supplied with the SLDN unit must be ordered separately.

Integrated Mounting

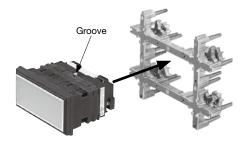
1. Assemble the cross-shaped joints.

First, assemble the cross-shaped joints in a row with round marks in the same direction together with the I-shaped joints. Then, combine the rows of assembled cross-shaped joints together.

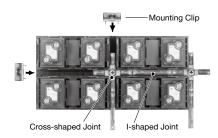


2. Lock the housings with the cross-shaped joints. Insert the SLDN units into the assembled cross-shaped

joints. Then insert the projection of the intergrating piece on the cross-shaped joints into the groove of the unit and tighten the screw.



3. Install into panel cut-out.



Insert the joint SLDN units into the panel cut-out from the front of the panel. Install the mounting clips as shown and tighten the screws lightly to a torque of approximately 0.39 to 0.49 N·m.

Quantity of mounting clips = $(N - 1) \times 2 + (N' - 1) \times 2$ Quantity of cross-shaped joints = $(N - 1) \times (N' - 1)$ Quantity of I-shaped joints For horizontal mounting = $(N - 1) \times (N' - 2)$ For vertical mounting = $(N - 2) \times (N' - 1)$ where N and N' are the numbers of rows and columns, respectively.

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Quantities of Mounting Clips, Cross-shaped Joints, and I-shaped Joints Used for Integrated Mounting

Columns	Mounting Clips	Rows (N)			
(N')	and Joints	2	3	4	5
	Mounting Clips	4	6	8	10
2	Cross-shaped Joints	1	2	3	4
	I-shaped Joints	0	1	2	3
	Mounting Clips	6	8	10	12
3	Cross-shaped Joints	2	4	6	8
	I-shaped Joints	0	2	4	6
	Mounting Clips	8	10	12	14
4	Cross-shaped Joints	3	6	9	12
	I-shaped Joints	0	3	6	9
	Mounting Clips	10	12	14	
5	Cross-shaped Joints	4	8	12	_
	I-shaped Joints	0	4	8	

Quantity of SLDN units = $N \times N'$

The maximum quantity of square SLD30N and SLD44N units for integrated mounting is 20.

The maximum quantity of rectangular SLD72N and SLD48N units for integrated mounting is 10 as shown with shading in the table above.

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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