



INSTRUCTION SHEET

SLD * N Display Lights

Make sure that you have received the correct product you ordered and use the SLD according to the precautions described below.

Safety Precautions

- Turn power off to the SLD before starting installation, removal, wiring, maintenance, and inspection. When removing the LED unit, be sure to turn power off to the SLD. Failure to turn power off may cause electrical shocks, burn on your hand, or damage to the LED unit.
- Do not operate the SLD with the lens removed. Ingress of foreign objects may cause short-circuiting, damage to the LED unit surface, resulting in reduced brightness and failure to light.
- When lighting the SLD continuously, observe "Precautions for Continuous Lighting" described below. Otherwise, the SLD will heat up excessively, causing fire hazard or damage to the SLD.
- To remove the LED unit, pinch the recesses on both sides of the LED unit using the removal tool (MT-101) and pull out the LED unit.
- Use a wire of proper size to meet the current requirement for wiring. Tighten the terminal screws to a proper tightening torque described below. Loose screws will cause excessive heating and fire hazard.
- Do not use or install the SLD where the SLD is



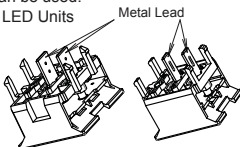
Operating Precautions

- Precautions for Continuous Lighting
 - Up to 10 units of the SLD30N or SLD44N can be lit continuously. When using more than 10 units, observe the limitations described below. Up to 6 units of the SLD48N or SLD72N can be lit continuously. When using more than 6 units, observe the limitations described below.
 - When lighting continuously, light up a maximum of half the number of all units in a checkered pattern.
 - When lighting more than half the number of all units, keep the continuous lighting within 40 minutes. Before lighting again, make sure that the SLDs have cooled down.
 - When using the SLD in other conditions, contact IDEC.
 - Do not light up both colors of the 2-color alternate type SLD simultaneously.
- Precautions for Panel Mounting
 - Screw tightening torque of the mounting clip Proper tightening torque: 0.39 to 0.49 N · m
 - Do not repeat installation and removal of the mounting clip many times. The mounting clip may be deformed and cannot fasten the SLD correctly.
- Wiring
 - Screw tightening torque of the terminals
 - Install an insulation tube or cap to the crimped part of the crimping terminal.
 - For wiring M3.5 terminals, up to 2 wires of ϕ 1.6mm solid wires or 2mm² stranded wires can be used. For wiring M3 terminals, up to 2 wires of 1.25mm² stranded wires can be used.

Terminal No.	Screw	Tightening Torque
C	M3	0.6 to 1.0 N · m
Others	M3.5	1.0 to 1.3 N · m

■ Precautions for Using Blue/Green LED Units

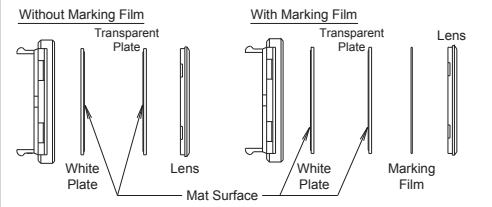
- Do not apply electrostatic charge to the metal lead on the LED unit (see below). Otherwise, the internal circuit may be damaged, causing



■ Making

- Legends can be engraved on the transparent marking plate and also marked on a marking film (not attached). Two marking films of 0.1 mm thick or one marking film of 0.2 mm thick can be used. Polyester film marking plates are recommended.
- The insertion order of white plate, transparent marking plate, and marking film is shown below. When using a marking film, place the mat surface of the white plate and marking plate in the same direction. If the mat surfaces face with each other, the lens cannot be inserted.
- Note: Marking films are not supplied with the SLD.

Insertion Order of Illumination Plates



■ Operating Environment

- Operating temperature: -20 to +40°C (no freezing)
(DC-DC converter type: -10 to +40°C)
- Operating humidity: 45 to 85% RH (no condensation)

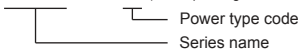
■ Specifications

- Illumination: LED
- Storage temperature: -30 to +80°C
- Degree of protection: IP40 (in front of the panel)
- LED safety standard: Class 1 (IEC 60825-1)

■ Wiring

- Identify the terminal arrangement from the list and chart below referring to the Type No. indicated on the packaging box. The Type No. includes a series name and a power type code.

Example: SLD30N-1DH2BR (Corresponding terminal arrangement: ②)



Terminal Arrangement List

Series Name	Power Type Code											
	1DH	2DH	3DH	1DW	2DW	1DHM	2DHM	1TH	2TH	3TH	1GH	2GH
SLD30N	②			④		③		②			①	
SLD44N												
SLD72N	⑥	⑨	⑧			⑦		⑥	⑨	⑤		
SLD48N												

Terminal Arrangement Chart

①		②		③		④	
No.	Polarity	No.	Polarity	No.	Polarity	No.	Polarity
X1	(+)	X1	No	X1	(+) common	X1	(+) common (R) Red
X2	(-)	X2	No	X2	check terminal (-)	X2	(-) common (G) Green
				X2	(-)	X2	(-) (-)

⑤ Left		⑥ Right		⑦ Left		⑧ Right	
No.	Polarity	No.	Polarity	No.	Polarity	No.	Polarity
X1	(+)	X1	(+)	X1	(+) common	X1	(+) common
X2	(-)	X2	(-)	X2	No Polarity	X2	No Polarity

⑨ Left		⑩ Right	
No.	Polarity	No.	Polarity
X1	(+)	X1	(+) common
C	(-)	C	(-) check terminal
X2	(-)	X2	(-)

⑪ Left		⑫ Right	
No.	Polarity	No.	Polarity
X1	(+) common	X1	(+) common
C	(-)	C	(-) (R) Red
X2	(-)	X2	(-) (G) Green

⑬ Left		⑭ Center		⑮ Right	
No.	Polarity	No.	Polarity	No.	Polarity
X1	No	X1	No	X1	No
X2	Polarity	X2	Polarity	X2	Polarity

- The terminal arrangement charts shown above are a rear view.
- Full illumination units of ⑤, ⑥, ⑦, and ⑧ have jumpers connected across the same terminals before shipment.
- When using ⑨ for full illumination, connect jumpers across terminals X1-X3-X5 and across terminals X2-X4-X6.