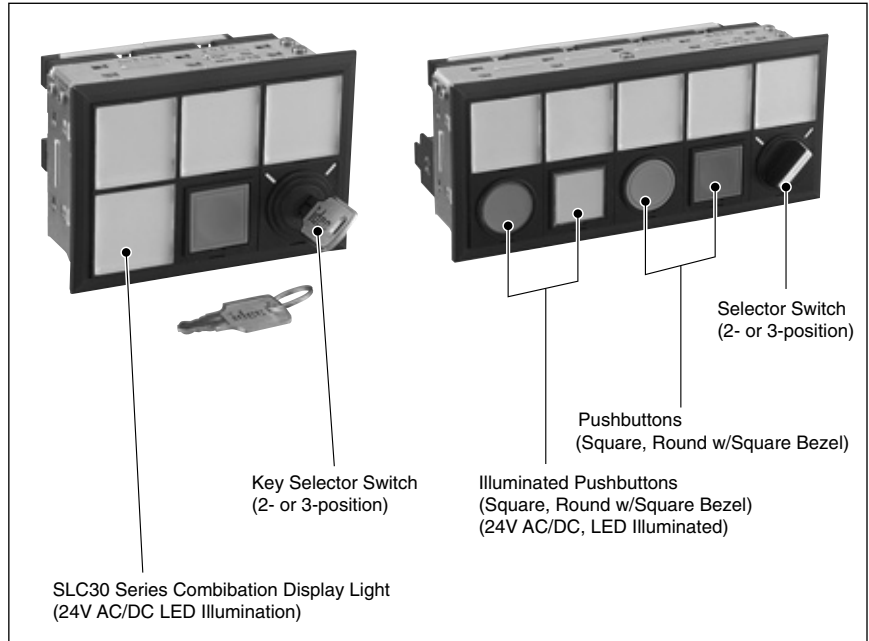


# SLC30 Series Combination Display with Control Units

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

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

## Control Unit (SLC30-LW)

### Pushbutton (Square, Round w/Square Bezel)

- Contact: DPDT (gold or silver)
- Operation: Momentary
- Button color:  
Black (B), Green (G), Red (R), Blue (S), White (W), Yellow (Y)

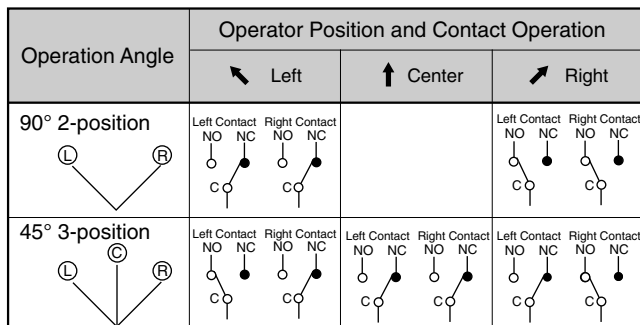
### Illuminated Pushbutton (Square, Round w/Square Bezel)

- Contact: DPDT (gold or silver)
- Operation: Momentary
- Illumination color:  
Amber (A), Green (G), Pure White (PW), Red (R), Blue (S), White (W), Yellow (Y)

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

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

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



## Specifications

Connection Wire	SLC30: Solid wire $\phi 1.6 \times 2$ Stranded wire $2 \text{ mm}^2 \times 2$ SLC-LW: Stranded wire $1.25 \text{ mm}^2$ maximum
Terminal Screw	SLC30: M3.5 SLC30-LW: M3.0
Insulation Resistance	100 M $\Omega$ minimum (500V DC megger)
Dielectric Strength	SLC30: 2000V AC, 1 minute
	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)

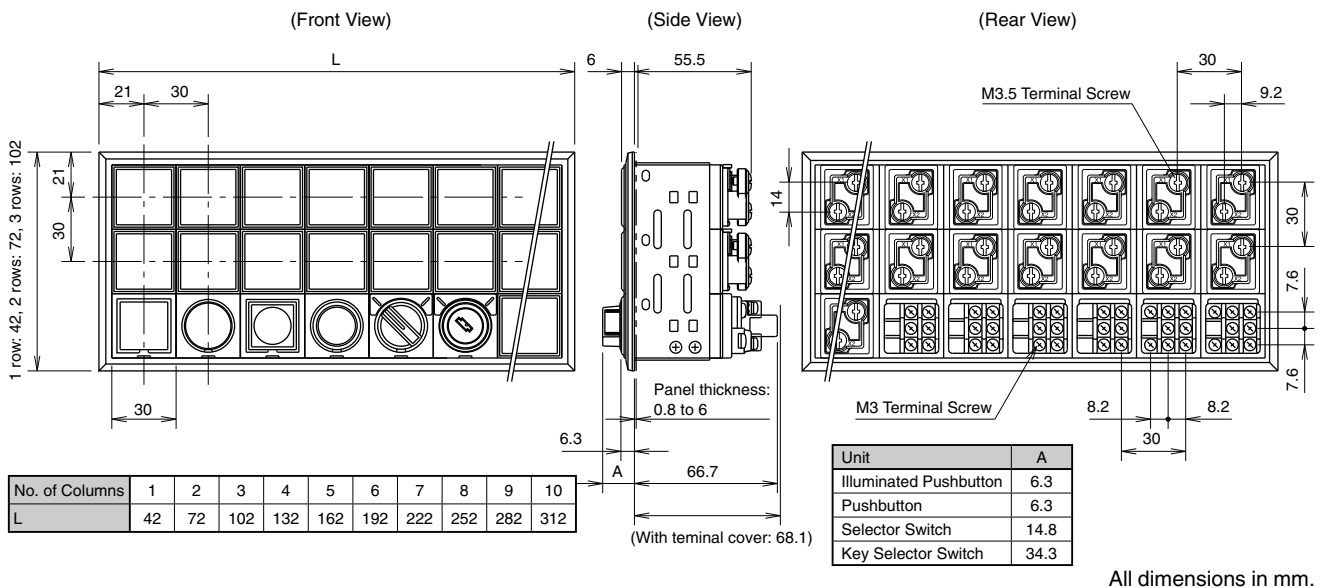
## Combination Display Light Ratings

Operating Voltage	24V AC/DC
Rated Current	Amber, blue, green, pure white : 12 mA Red, white, yellow: 13 mA

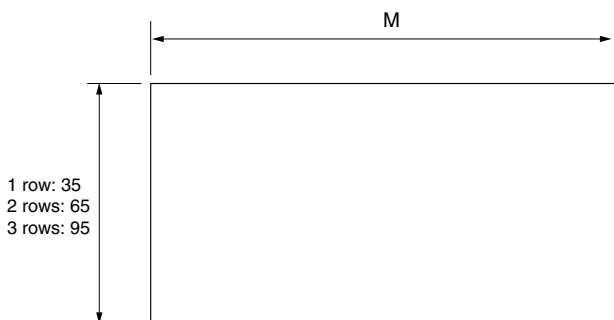
- Flush Silhouette
- Switches & Pilot Lights
- Display Lights
- LED Illumination Units
- Display Units
- Safety Products
- Terminal Blocks
- Comm. Terminals
- AS-Interface
- Relays & Timers
- Sockets
- Circuit Protectors
- Power Supplies
- PLCs & SmartRelay
- Operator Interfaces
- Sensors
- Control Stations
- Explosion Protection
- References

# SLC30 Series Combination Display with Control Units

## Dimensions

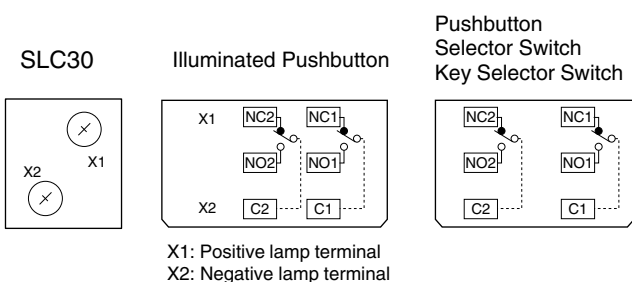


## Panel Cut-out



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

## Panel Cut-out (Bottom View)



## Ordering Information

- When ordering, complete the Specification Sheet on page 568.
- Control units (SLC30-LW) can be mounted on the bottom row only.
- Jumpers (SLCN-JP34/-JP35) are used between combination display lights only. Jumpers can not be used between control units, or between control units and combination display lights.
- See page 556 to 558 for accessories.
- Minimum unit size is 2 × 1 windows.

## ! Safety Precautions

See page 561.

## Operating Instructions

- When using the insulation terminal cover (LW-VL2M) for the control units
  - Install the terminal cover on the SLC units before wiring. Terminal covers cannot be installed after wiring.
  - Ring crimping terminals cannot be installed when terminal covers are used. Use spade terminals or wire directly.
- Do not remove the operator part of control units from the housing. Otherwise contacts may malfunction.
- 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.
- Use a lamp holder tool (OR-44) when replacing lamps.
- 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

- Up to 10 SLC units (Type F equivalent) can be lit continuously. When more units are mounted, consider the following restrictions.
  - Do not light more than 40% of the SLC units continuously, and light the units in a checker pattern.
  - When more than 40% of the units are lit continuously, limit the lighting duration to 40 minutes. Before lighting the units again, ensure that all units have cooled down.
- For other operating instructions of display lights, see the relevant pages of SLC30/40 catalog.
- For other operating instructions of control units, see the relevant pages of ø22 LW control unit catalog.

# SLC30 Series Combination Display with Control Units

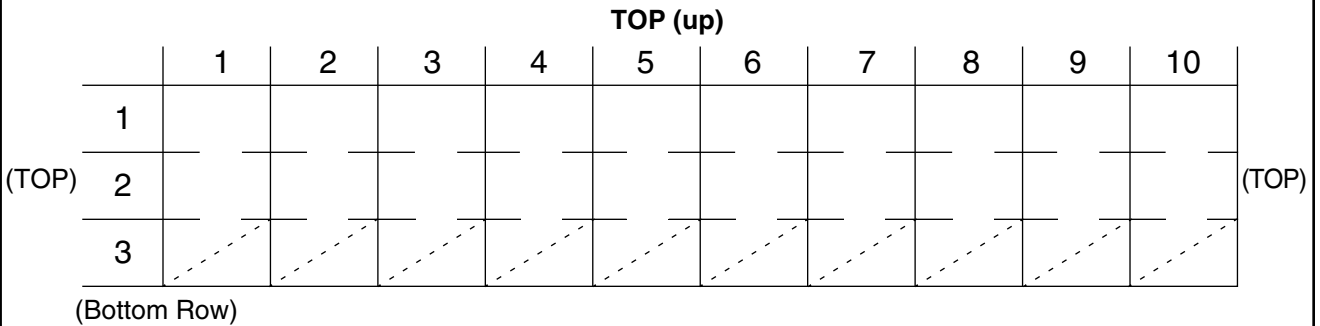
## SLC30/40 Series Combination Display Lights with Control Units Specification Sheet

Date of Order	
Customer	
Address	
Phone No.	
Contact	

Part No.

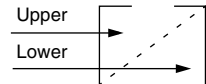
**SLC30N-**      **-DD2ML**  - For illumination color and control unit, enter your requirements in the diagram below.

### Illumination Color & Control Unit Specification



#### Specification Notes

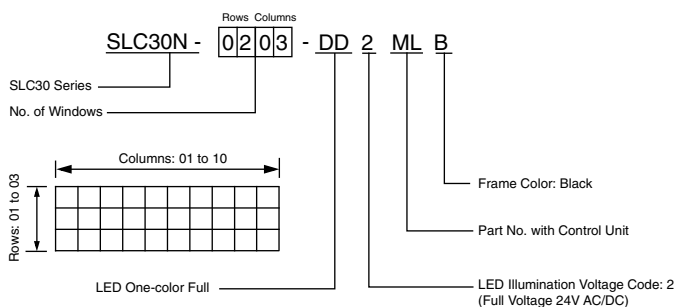
- Use the specification diagram above for LED one-color Full (24V AC/DC) only.
- Control units can be mounted on the bottom row (the third row in the diagram above) only. Enter button or lens color code in the upper part and control unit code in the lower part (see the table below for control unit code).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



#### Control Unit Code

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

\* Refer to the below table for key retaining positions.



Key Code	A	B	C	Ⓐ Ⓑ Ⓒ: Key can be released from these positions.			
2-position Maintained							
Key Code	A	B	C	D	E	G	H
3-position Maintained							

