

DD Miniature Digital Display Unit

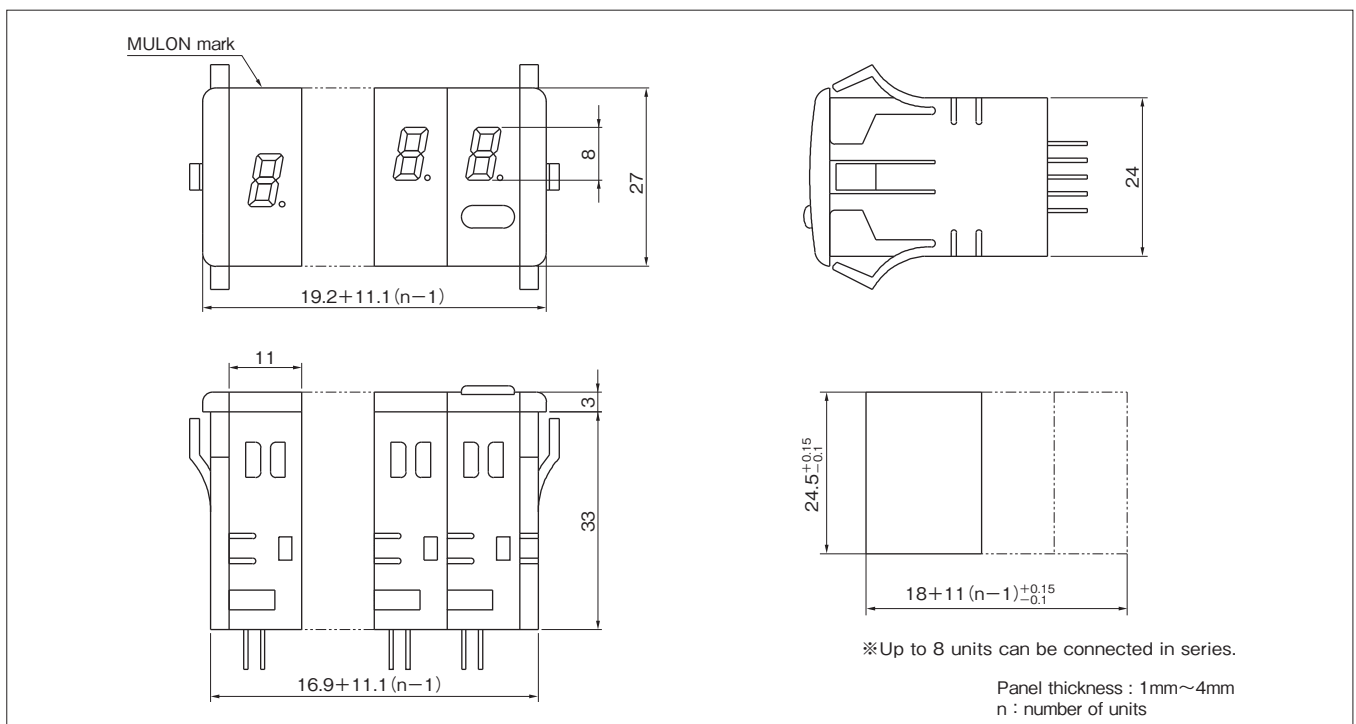
7-segment display unit with Switch function.

■FEATURES

- Depth behind panel : 33 mm
- Character height : 8 mm
- Numerical Unit can be easily displayed by BCD codes.
- Red, Green, LED available.
- One-touch easy panel mounting with side plates.
- Terminal connection : IC pitch(2.54mm pitch) terminal for Connector.
- Display : 7-segment numerical unit, Character unit



DIMENSIONS / PANEL CUT-OUT



※Panel Cut Dimension should be after panel paintings.

Tolerance : $\pm 0.4\text{mm}$

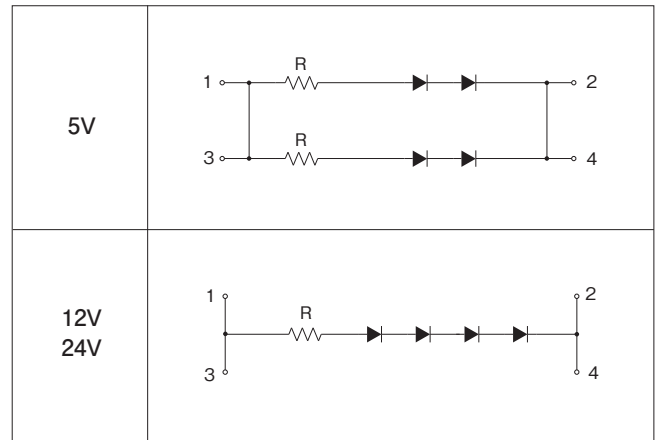
SPECIFICATIONS

Character Unit

●LED RATINGS

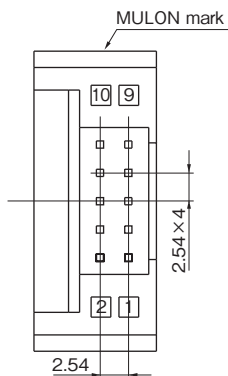
Current Rating (mA)		
DC Supply voltage	Red	Green
5V	8	14
12V	4	7
24V	4	7

●Internal Connection Arrangemets

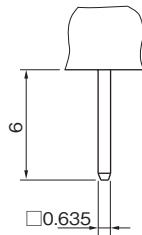


TERMINALS

●Terminals Arrangement



●Terminal shape



● Applicable Connector (representative example)

OMRON XG4M-1030 (Socket) 、 XG4T-1004 (Strain Relief)
XG5M-1035 (Socket) 、 XG5S-0501 (Semi-cover)

* Connectors are not appended.

●Terminal Function Table

Terminal No.	Display	Switch	Numerical Unit Functions	Character Unit Mono-Color
1	—	COM	—	Anode (+)
2	—	NO	—	Cathode (-)
3	D	D	D、C、B、A…… BCD code data input terminal	Anode (+)
4	DP	DP	DP…………… The cathode side of the LED is an external terminal, the decimal point lights up by connecting it to GND. LE…………… “H” makes latching data.	Cathode (-)
5	LE	LE	Retains the display conditions of BCD code data before LE goes H. Even if the BCD code data changes, the display will not change. When not using it, connect it to GND.	—
6	A	A	D、C、B、A…… BCD code data input terminal	—
7	C	C	D、C、B、A…… BCD code data input terminal	—
8	B	B	D、C、B、A…… BCD code data input terminal	—
9	Vcc	Vcc	⊕ Power input	—
10	GND	GND	Ground ⊖ Power input. Electrical potential norm of all signals.	—

Tolerance : ±0.4mm

UNIT TYPE

Numerical unit (A)	Numerical unit (B)	Numerical unit + switch 1 circuit (B)	Character unit (C)
<p>Alignment : Center</p>	<p>Alignment : Top</p>	<p>Switch</p>	

When using in combination with switch unit, please specify (B) type.

SPECIFICATIONS

Numerical Unit

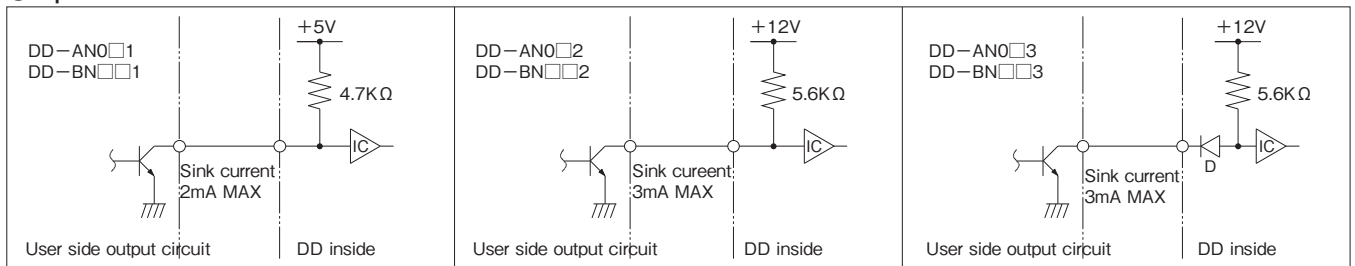
●Electrical Rating

Item	Type	DD-□□□1	DD-□□□2	DD-□□□3
Supply voltage		DC5V±5%	DC12V±5%	DC24V±5%
Current consumption		50mA MAX(1 unit)		
Input Logic		Positive Logic		
Ambient Temperature		-15~50°C		
Ambient Humidity		80%RH		

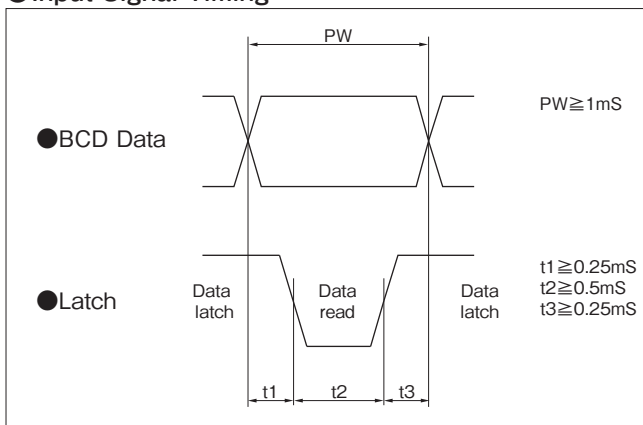
●Switch

Electric Rating	DC5~24V、1~50mA Resistive load
Rated insulation voltage	DC30V
Contact arrangement	N.O. Contact
Contact Resistance	100mΩ以下 (Initial value) at DC5V1mA
Mechanical Life	1,000,000 operations

●Input circuit and connection



●Input Signal Timing



●BCD Signals Truth Table

Input						Output
DP	LE	D	C	B	A	BCD
X	L	L	L	L	L	0
X	L	L	L	L	H	1
X	L	L	L	H	L	2
X	L	L	L	H	H	3
X	L	L	H	L	L	4
X	L	L	H	L	H	5
X	L	L	H	H	L	6
X	L	L	H	H	H	7
X	L	H	L	L	L	8
X	L	H	L	L	H	9
X	L	H	L	H	L	Blank
X	L	H	L	H	H	
X	L	H	H	L	L	
X	L	H	H	H	L	
X	L	H	H	H	H	
L	X	X	X	X	X	•
X	H	X	X	X	X	※

Either H or L is acceptable for X.

※ LE goes L, the applied BCD code is displayed.

All input are pulled up internally. Therefore H can be open.

ORDERING CODE

Numerical Unit A type



Side plates to be ordered separately.

DD-AN0

●LED COLOR

R	Red
G	Green

●SUPPLY VOLTAGE

1	5V
2	12V
3	24V

Numerical Unit B type



Side plates to be ordered separately.

DD-BN

●SWITCH

0	Without Switch
1	switch 1 circuit

●LED COLOR

R	Red
G	Green

●SUPPLY VOLTAGE

1	5V
2	12V
3	24V

Character Unit C type



Side plates to be ordered separately.

DD-C

●DISPLAY TYPE

0	Full-Face
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●LEGEND PLATE

A	Attached
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●LED COLOR

R	Red
G	Green

●SUPPLY VOLTAGE

1	5V
2	12V
3	24V

●SIDE PLATES

※A pair of Side Plate (Right/Left) is necessary for mounting on panel.



DD-1620-K

※The color of side plate is Black only.