

Digital Display (14 mm) M7E

CSM_M7E(14mm)_DS_E_5_2

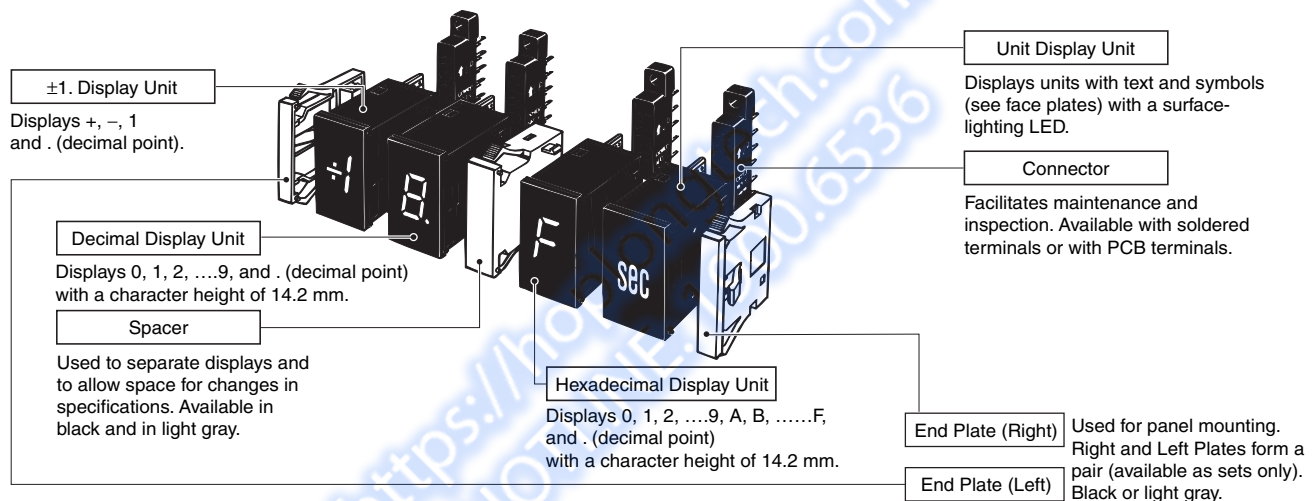
New Models with Blanking Function Added to the Series

- Single-color (red or green) and two-color (red or green selectable) displays with a character height of 14 mm are available for a variety of applications and locations.
- Miniature design with a 43-mm depth is perfect for saving space in equipment and devices.
- Wide-range power supply from 12 to 24 VDC.
- Negative sign (–) display with signal codes is possible for Decimal-display Models.
- Models with zero suppression function available.



Model Configuration

■ Unit Configuration



Ordering Information

List of Models

Display contents	Display color	Type	Model	
			Model with Zero Suppression (See note 1.)	Model with Blanking (See note 2.)
	Red	Positive	---	M7E-01BRP2
		Negative	---	M7E-01BRN2
		Dynamic output	---	M7E-01BRD2
	Green	Positive	---	M7E-01BGP2
		Negative	---	M7E-01BGN2
		Dynamic output	---	M7E-01BGD2
	Red	Positive	M7E-01DRP2	M7E-01DRP2-B
		Negative	M7E-01DRN2	M7E-01DRN2-B
		Dynamic output	M7E-01DRD2	M7E-01DRD2-B
	Green	Positive	M7E-01DGP2	M7E-01DGP2-B
		Negative	M7E-01DGN2	M7E-01DGN2-B
		Dynamic output	M7E-01DGD2	M7E-01DGD2-B
	Red/green (two colors)	Negative	M7E-01DRGN2	M7E-01DRGN2-B
	Hexadecimal	Positive	M7E-01HRP2	M7E-01HRP2-B
		Negative	M7E-01HRN2	M7E-01HRN2-B
	Green	Positive	M7E-01HGP2	M7E-01HGP2-B
		Negative	M7E-01HGN2	M7E-01HGN2-B

Display contents	Display color	Logic	Model
	Red	---	M7E-01UR2-□ (See note 3.)
	Green	---	M7E-01UG2-□ (See note 3.)

- Note:** 1. Models with zero suppression are blank only when the display is  and the decimal is OFF by wiring as shown on page 12.
 2. Models with blanking enable turning OFF a user-specified display ( to ,  to ) by inputting a signal to the blank input terminal.
 3. The symbol in the box (□) indicates the code for the display contents. Refer to page 13.

Accessories (Order Separately)

End Plate

Case color	Item	Model
Light gray		M7E-012M
Black		M7E-012M-1

Note: The Right and Left Plates form a pair.

Spacer

Case color	Item	Model
Light gray		M7E-012PA
Black		M7E-012PA-1

Connectable PLCs

M7E model		PLC output method		
Display contents	Type	Static output		Dynamic output
		PNP output	NPN output	
±1, decimal	Positive	○	△	△
	Negative	×	○	×
	Dynamic output	×	×	○
Hexa-decimal	Positive	○	△	△
	Negative	×	○	×
Unit	---	○ (only voltage imposed)		

○: Connectable

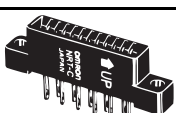
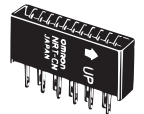
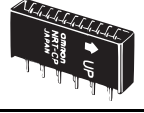
×: Not connectable

△: Connectable (See note.)

Note: Connectable but an external resistor is required and only 24 VDC must be supplied.

Refer to *External Connections* on page 9 and 10 for details.

Connector

Terminal	Model
Solder terminal 	NRT-C
Solder terminal 	NRT-CN
PCB terminal 	NRT-CP

Mother Board

Type	Number of digits	Model
Static	4	M7E-01MB4-S2
Static	3	M7E-01MB3-S2
Static	2	M7E-01MB2-S2

Note: Refer to *M7E Mother Board for Display Units (Character Height: 14 mm)* for details.

Specifications

Ratings

Rated power supply		Wide range from 12 to 24 VDC
Allowable voltage fluctuation range		90% to 110% of rated voltage
Current consumption (per Display Unit)		Red LED: 35 mA max. at 24 VDC 60 mA max. at 12 VDC Greed LED: 40 mA max. at 24 VDC 75 mA max. at 12 VDC Red/green LED: 45 mA max. at 24 VDC 90 mA max. at 12 VDC
Input level	Positive logic	High: 9.6 V to power supply voltage Low: 0 to 3 V
	Negative logic	High: 4 V to power supply voltage Low: 0 to 1.5 V Residual voltage: 1.5 V max. OFF leakage current: 0.1 mA max.
	Dynamic output	High: 4 V to power supply voltage Low: 0 to 1.5 V
Ambient temperature		Operating: -10 to 55°C (with no icing) Storage: -25 to 70°C (with no icing)
Ambient humidity		Operating: 35% to 85% (with no condensation)

Characteristics

Insulation resistance	100 MΩ min. at 500 VDC (between each terminal and mounting panel)
Dielectric strength	500 VAC at 50/60 Hz for 1 minute (between each terminal and mounting panel)
Noise immunity (See note 2.)	Power terminal: ±500 V Input terminal: ±500 V (normal mode) ±1,500 V (common mode)
Vibration resistance	Destruction: 10 to 55 Hz, 0.75-mm double amplitude
Shock resistance	Destruction: 300 m/s ²
Degree of protection	IEC IP40 (portion on panel surface)
Compatible connector	OMRON NRT-C/NRT-CN/NRT-CP

Note: 1. The above values are initial values.
 2. Impulse conditions
 Rise time: 1 ns + 10% max.
 Pulse width: 100 ms, 1 μs
 Polarity: Positive, negative, asynchronous to power frequency, 100-Hz repeat frequency.

Installation

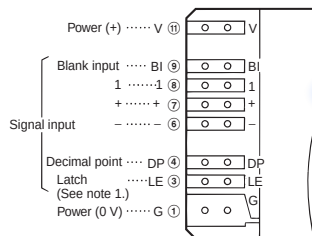
Terminal Arrangements and Functions

Terminal Arrangement

Note: The circled numbers are the connector pin numbers (NRT-□).

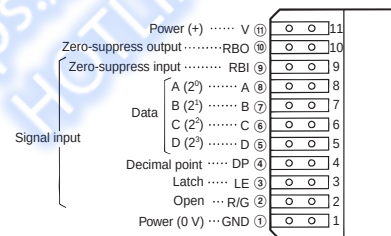
±1. Display Unit

M7E-01B□□2

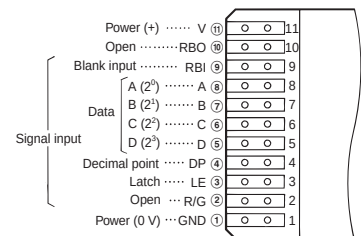


Decimal/Hexadecimal Display Unit (Single Color)

Models with Zero Suppression
 M7E-01D□□2/M7E-01H□□2

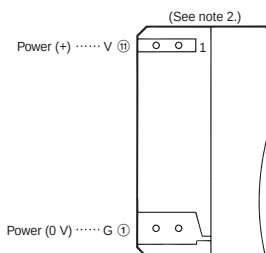


Models with Blanking
 M7E-01D□□2-B/M7E-01H□□2-B



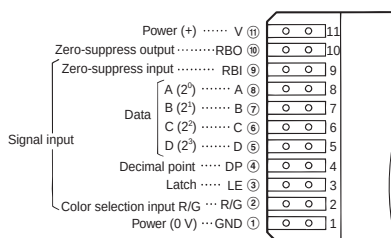
Unit Display Unit

M7E-01U□2-□

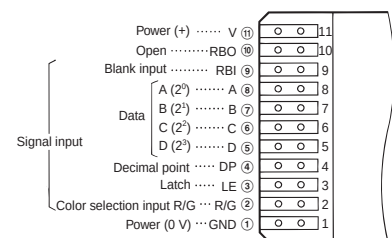


Decimal Display Unit (Two Colors)

Models with Zero Suppression
 M7E-01DRGN2



Models with Blanking
 M7E-01DRGN2-B



Note: 1. The latch terminal on ±1. Display Units is provided only on Dynamic Output Models.
 2. The terminal numbers of the Unit Display Unit are different from the terminal numbers of the connector.

Terminal Functions

Ter- mi- nal sym- bol	Name	Function		
		Decimal/Hexadecimal Display Unit		± Display Unit
		Models with Zero Suppression	Models with Blanking	
V	Power supply	Positive power supply input terminal		
RBO	Control output	Zero-suppress output (See note 1.)	---	---
RBI	Control input	Zero-suppress output (See note 1.)	Blanking input (Turns OFF all the displays including decimal point.)	---
BI	Control input	---	---	Blanking input (Turns OFF all the displays including decimal point.)
A B C D	Data inputs	A $\left. \begin{matrix} 2^0 \\ B \ 2^1 \\ C \ 2^2 \\ D \ 2^3 \end{matrix} \right\}$ Applicable to Decimal/Hexadecimal Display Unit •Displays a digit or symbol corresponding to the value of the binary code signal. •Decimal display uses 0 to 9; nothing will be displayed for higher values.		---
1 + -	Data inputs	---	---	Applicable to ±1. Display Unit only For each input terminal, the input of a signal causes a display to light.
DP	Data inputs	The decimal point lights.		
LE	Control input	Latch input The immediately preceding display condition is retained.		
R/G	Control input	Color selection input (See note 2.) Set low for green display and high for red display.		---
G	Power supply	0-V power-supply (ground) input terminal (GND)		

Note: 1. Refer to the input code table for RBO and RBI control.
2. Applicable to the M7E-01DRGN2 and -01DRGN2-B only.

Input Codes

Models with Positive or Negative Logic

±1. Display Unit

Positive Logic (M7E-01BRP2/M7E-01BGP2)

Connector pin No.	Input signal					Display conditions
	⑨	⑦	⑥	⑧	④	
Terminal symbol	BI	+	-	1	DP	
Input signals	L	L	L	L	L	Blank
	L	H	L	L	L	+
	L	L	H	L	L	-
	L	L	L	H	L	/
	L	L	L	L	H	.
	H	*	*	*	*	Blank (See note.)

Note: 1. BI takes precedence over any input signal.
2. Inputting + and - simultaneously enables to display ±.

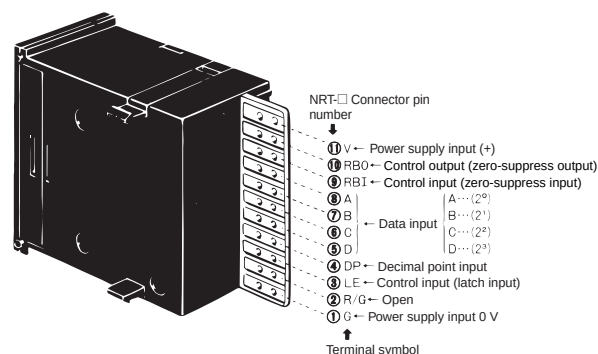
* Either high or low.

Unit Display Unit

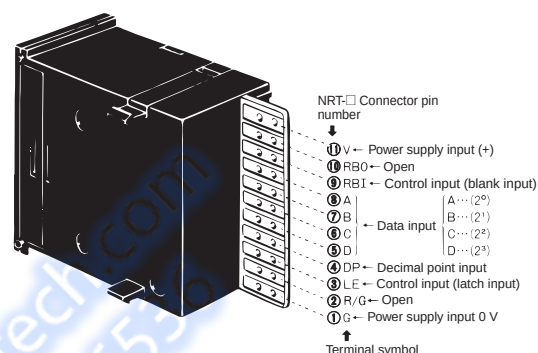
This display lights when voltage is applied to the power supply terminals (V and G).

V-G terminals	Display
Open circuit	Blank
Voltage applied	Lit

Decimal/Hexadecimal Display Unit (Single-color Models with Zero Suppression)



Decimal/Hexadecimal Display Unit (Single-color Model with Blanking)



Negative Logic (M7E-01BRN2/M7E-01BGN2)

Connector pin No.	Input signal					Display conditions
	⑨	⑦	⑥	⑧	④	
Terminal symbol	BI	+	-	1	DP	
Input signals	H	H	H	H	H	Blank
	H	L	H	H	H	+
	H	H	L	H	H	-
	H	H	H	L	H	/
	H	H	H	H	L	.
	L	*	*	*	*	Blank (See note.)

Note: BI takes precedence over any input signal.

* Either high or low.

Decimal/Hexadecimal Display Unit

Models with Zero Suppression

Positive logic (M7E-01DRP2/M7E-01DGP2/M7E-01HRP2/M7E-01HGP2)

	Input								Out-put	Display condition	
Connector pin No.	③	⑤	⑥	⑦	⑧	④	⑨	⑩			
Terminal number	3	5	6	7	8	4	9	10			
Terminal symbol	LE	D	C	B	A	DP	RBI	RBO		Decimal	Hexadecimal
Input signals	L	L	L	L	L	L	L	L		0	
	L	L	L	L	H	L	*	L		1	
	L	L	L	H	L	L	*	L		2	
	L	L	L	H	H	L	*	L		3	
	L	L	H	L	L	L	*	L		4	
	L	L	H	L	H	L	*	L		5	
	L	L	H	H	L	L	*	L		6	
	L	L	H	H	H	L	*	L		7	
	L	H	L	L	L	L	*	L		8	
	L	H	L	L	H	L	*	L		9	
	L	H	L	H	L	L	*	L		-	A
	L	H	L	H	H	L	*	L		Blank	b
	L	H	H	L	L	L	*	L		Blank	c
	L	H	H	L	H	L	*	L		Blank	d
	L	H	H	H	L	L	*	L		Blank	e
	L	H	H	H	H	L	*	L		Blank	f
	L	*	*	*	*	H	*	L		.	
	*	L	L	L	L	L	H	H		Blank (See note 1.)	
	H	*	*	*	*	*	*	*		Retains the display conditions of A through D and DP terminals before LE goes high. RBI is not related.	

Note: 1. The display will go blank when the data input is "0" and the DP is OFF.

* Either high or low

- If the input terminals are open when the power supply is turned ON, the voltage between the input terminals will not be stable, the LE terminal may go high, and the M7E may show unexpected displays. When you turn ON the power supply, we recommend that you either set the LE terminal to low or input a signal to the specified terminals from the host.

Negative logic (M7E-01DRN2/M7E-01DGN2/M7E-01DRGN2/M7E-01HRN2/M7E-01HGN2)

	Input								Out-put	Display condition	
Connector pin No.	③	⑤	⑥	⑦	⑧	④	⑨	⑩			
Terminal number	3	5	6	7	8	4	9	10			
Terminal symbol	LE	D	C	B	A	DP	RBI	RBO		Decimal	Hexadecimal
Input signals	H	H	H	H	H	H	H	H		0	
	H	H	H	H	L	H	*	H		1	
	H	H	H	L	H	H	*	H		2	
	H	H	H	L	L	H	*	H		3	
	H	H	L	H	H	H	*	H		4	
	H	H	L	H	L	H	*	H		5	
	H	H	L	L	H	H	*	H		6	
	H	H	L	L	L	H	*	H		7	
	H	L	H	H	H	H	*	H		8	
	H	L	H	H	L	H	*	H		9	
	H	L	H	L	H	H	*	H		-	A
	H	L	H	L	L	H	*	H		Blank	b
	H	L	L	H	H	H	*	H		Blank	c
	H	L	L	H	L	H	*	H		Blank	d
	H	L	L	L	H	H	*	H		Blank	e
	H	L	L	L	L	H	*	H		Blank	f
	H	*	*	*	*	L	*	H		.	
	*	H	H	H	H	H	L	L		Blank (See note.)	
	L	*	*	*	*	*	*	*		Retains the display conditions of A through D, DP and R/G terminals before LE goes low. RBI is not related.	

Note: The display will go blank when the data input is "0" and the DP is OFF.

* Either high or low

Models with Blanking

Positive logic (M7E-01DRP2-B/M7E-01DGP2-B/M7E-01HRP2-B/M7E-01HGP2-B)

Connector pin No.	Input							Display condition	
	③	⑨	⑤	⑥	⑦	⑧	④		
Terminal number	3	9	5	6	7	8	4		
Terminal symbol	LE	RBI	D	C	B	A	DP	Decimal	Hexa-decimal
Input signals	L	L	L	L	L	L	L	0	
	L	L	L	L	L	H	L	1	
	L	L	L	L	H	L	L	2	
	L	L	L	L	H	H	L	3	
	L	L	L	H	L	L	L	4	
	L	L	L	H	L	H	L	5	
	L	L	L	H	H	L	L	6	
	L	L	L	H	H	H	L	7	
	L	L	H	L	L	L	L	8	
	L	L	H	L	L	H	L	9	
	L	L	H	L	H	L	L	-	A
	L	L	H	L	H	H	L	Blank	b
	L	L	H	H	L	L	L	Blank	c
	L	L	H	H	L	H	L	Blank	d
	L	L	H	H	H	L	L	Blank	e
	L	L	H	H	H	H	L	Blank	f
	*	L	*	*	*	*	H	.	
	*	H	*	*	*	*	*	Blank (See note.)	
	H	L	*	*	*	*	*	Retains the display conditions of A through D terminals before LE goes high. DP is not related.	

Note: RBI takes precedence over any input signal.

* Either high or low

Negative logic (M7E-01DRN2-B/M7E-01DGN2-B/M7E-01DRGN2-B/M7E-01HRN2-B/M7E-01HGN2-B)

Connector pin No.	Input							Display condition	
	③	⑨	⑤	⑥	⑦	⑧	④		
Terminal number	3	9	5	6	7	8	4		
Terminal symbol	LE	RBI	D	C	B	A	DP	Decimal	Hexa-decimal
Input signals	H	H	H	H	H	H	H	0	
	H	H	H	H	H	L	H	1	
	H	H	H	H	L	H	H	2	
	H	H	H	H	L	L	H	3	
	H	H	H	L	H	H	H	4	
	H	H	H	L	H	L	H	5	
	H	H	H	L	L	H	H	6	
	H	H	H	L	L	L	H	7	
	H	H	L	H	H	H	H	8	
	H	H	L	H	H	L	H	9	
	H	H	L	H	L	H	H	-	A
	H	H	L	H	L	L	H	Blank	b
	H	H	L	L	H	H	H	Blank	c
	H	H	L	L	H	L	H	Blank	d
	H	H	L	L	L	H	H	Blank	e
	H	H	L	L	L	L	H	Blank	f
	*	H	*	*	*	*	L	.	
	*	L	*	*	*	*	*	Blank (See note.)	
	L	H	*	*	*	*	*	Retains the display conditions of A through D, and R/G terminals before LE goes low. DP is not related.	

Note: RBI takes precedence over any input signal.

* Either high or low

Models with Dynamic Outputs

±1. Display Unit

(M7E-01BRD2/M7E-01BGD2)

Connector pin No.	Input						Display condition
	③	⑨	⑦	⑥	⑧	④	
Terminal symbol	LE	BI	+	-	1	DP	
Input signals	L	H	L	L	L	H	Blank
	L	H	H	L	L	H	+
	L	H	L	H	L	H	-
	L	H	L	L	H	H	1
	*	H	*	*	*	L	.
	*	L	*	*	*	*	Blank (See note.)
	H	H	*	*	*	*	Retains the display conditions of +, -, and 1 before LE goes high. DP is not related.

Note: BI takes precedence over any input signal.

* Either high or low

Decimal Display Unit

Models with Zero Suppression (M7E-01DRD2/M7E-01DGD2)

	Input							Out-put	Display condition
Connector pin No.	③	⑤	⑥	⑦	⑧	④	⑨	⑩	
Terminal number	3	5	6	7	8	4	9	10	
Terminal symbol	LE	D	C	B	A	DP	RBI	RBO	
Input signals	L	L	L	L	L	H	L	L	0 (See note 1.)
	L	L	L	L	H	H	*	L	1
	L	L	L	H	L	H	*	L	2
	L	L	L	H	H	H	*	L	3
	L	L	H	L	L	H	*	L	4
	L	L	H	L	H	H	*	L	5
	L	L	H	H	L	H	*	L	6
	L	L	H	H	H	H	*	L	7
	L	H	L	L	L	H	*	L	8
	L	H	L	L	H	H	*	L	9
	L	H	L	H	L	H	*	L	-
	L	H	L	H	H	H	*	L	Blank
	L	H	H	L	L	H	*	L	Blank
	L	H	H	L	H	H	*	L	Blank
	L	H	H	H	L	H	*	L	Blank
	L	H	H	H	H	H	*	L	Blank
	L	*	*	*	*	L	*	L	.
	*	L	L	L	L	H	H	H	Blank (See note 2.)
	H	*	*	*	*	*	*	*	Retains the display conditions of A through D, and DP terminals before LE goes high. RBI is not related.

- Note:** 1. Input low for RBI when data "0" is displayed. RBI will go high in open mode and the zero suppression will function.
 2. The display will go blank when the data input is "0" and the DP is OFF.

* Either high or low

Models with Blanking (M7E-01DRD2-B/M7E-01DGD2-B)

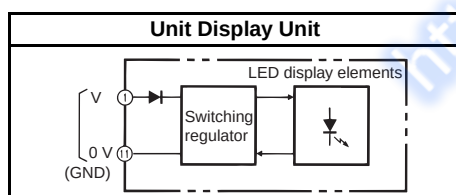
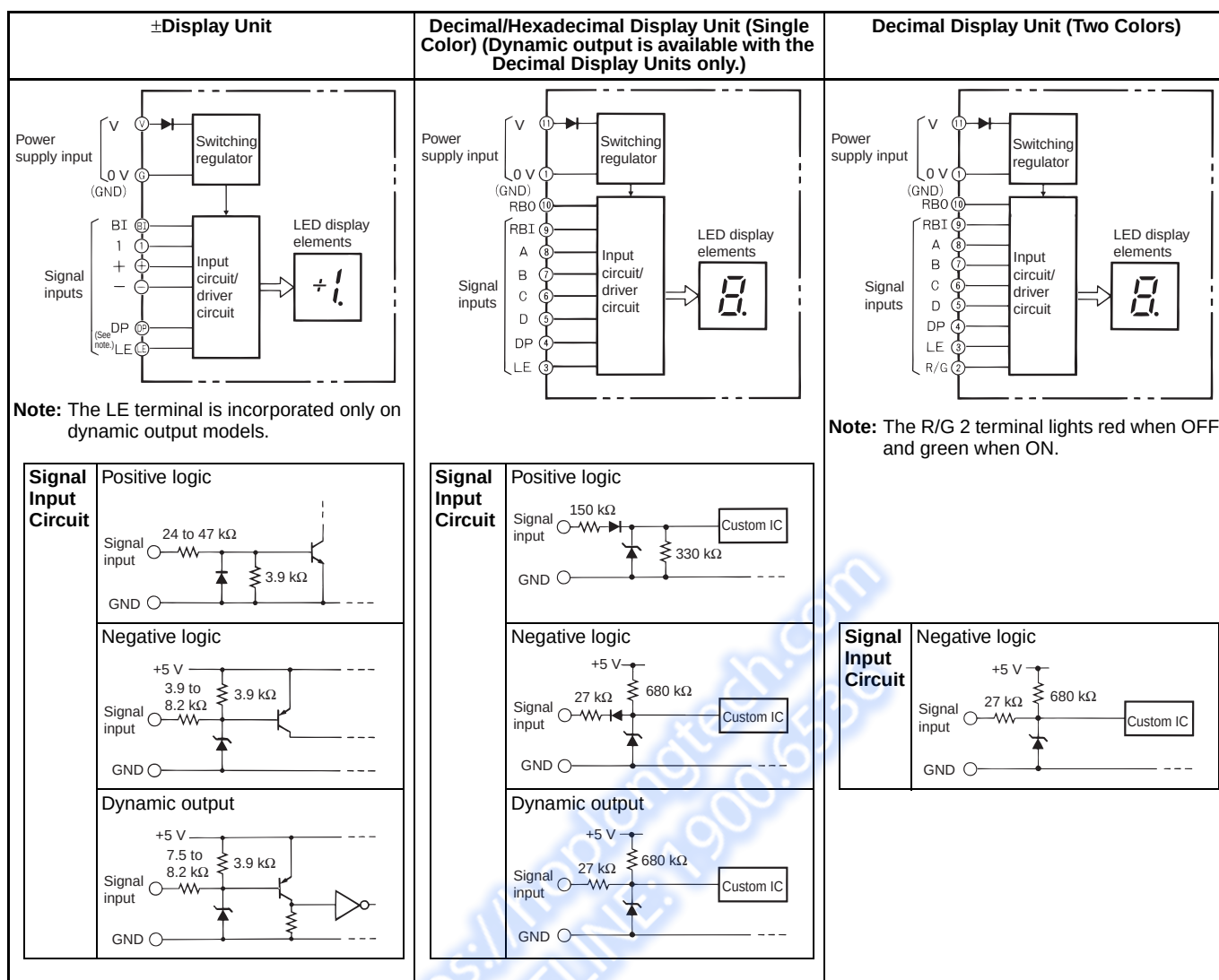
	Input							Display condition
Connector pin No.	③	⑨	⑤	⑥	⑦	⑧	④	
Terminal number	3	9	5	6	7	8	4	
Terminal symbol	LE	RBI	D	C	B	A	DP	
Input signals	L	H	L	L	L	L	H	0
	L	H	L	L	L	H	H	1
	L	H	L	L	H	L	H	2
	L	H	L	L	H	H	H	3
	L	H	L	H	L	L	H	4
	L	H	L	H	L	H	H	5
	L	H	L	H	H	L	H	6
	L	H	L	H	H	H	H	7
	L	H	H	L	L	L	H	8
	L	H	H	L	L	H	H	9
	L	H	H	L	H	L	H	-
	L	H	H	L	H	H	H	Blank
	L	H	H	H	L	L	H	Blank
	L	H	H	H	L	H	H	Blank
	L	H	H	H	H	L	H	Blank
	L	H	H	H	H	H	H	Blank
	*	H	*	*	*	*	L	.
	*	L	*	*	*	*	*	Blank (See note.)
	H	H	*	*	*	*	*	Retains the display conditions of A through D terminals before LE goes high. DP is not related.

Note: RBI takes precedence over any input signal.

* Either high or low

Block Diagram

Note: Circled numbers are the board terminal numbers.



Note: The terminal numbers of the Unit Display Unit are different from the terminal numbers of the connector. Refer to *Terminal Arrangements and Functions* on page 3 for details.

External Connections

Refer to the *Terminal Arrangement* on page 3 and the *Block Diagram* on page 8 for external connections for each unit.

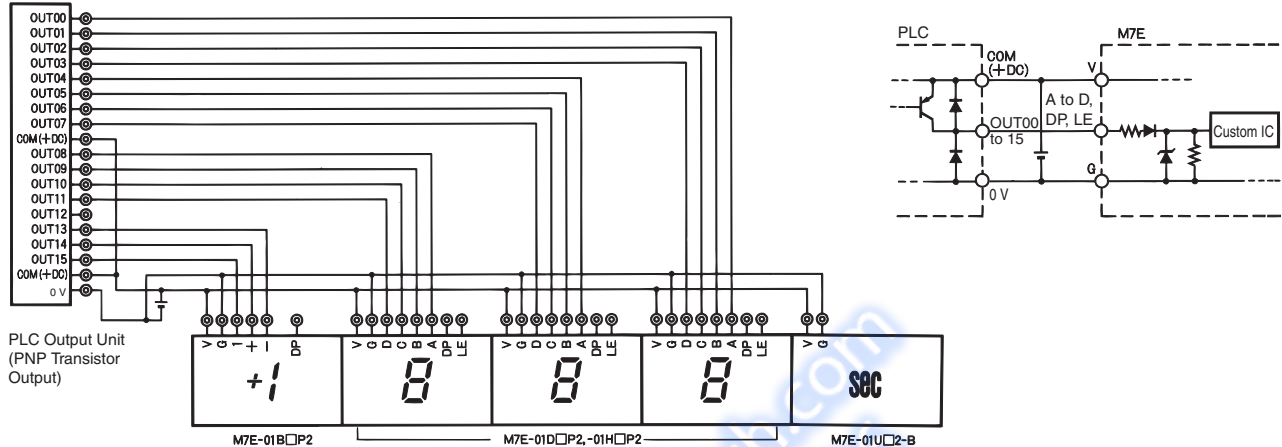
Example of connection to a PLC.

- Refer to the PLC operation manual before connecting the PLC.
- The number of wires can be reduced by using a PLC with dynamic outputs.

Static Output Unit

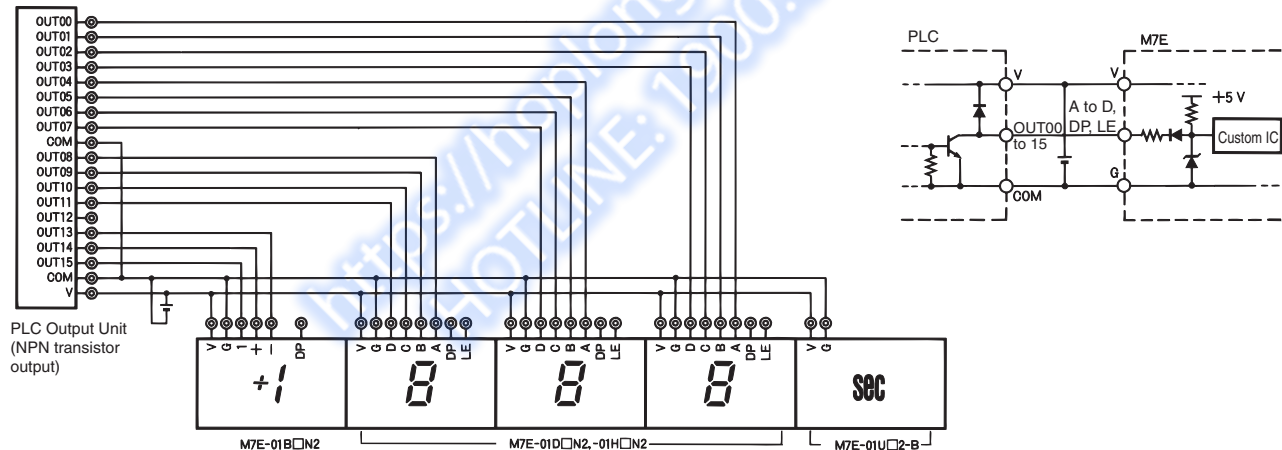
1. M7E-01□□P2 Positive Logic Model Use a PNP Transistor Output Unit for the PLC Output Unit.

Connected to CS1W-OD232 and CJ1W-OD232 Transistor Output Unit



2. M7E-01□□N2 Negative Logic Model Use an NPN Transistor Output Unit for the PLC Output Unit.

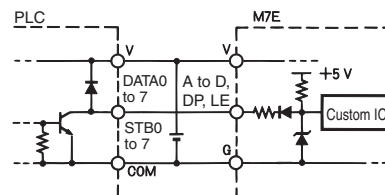
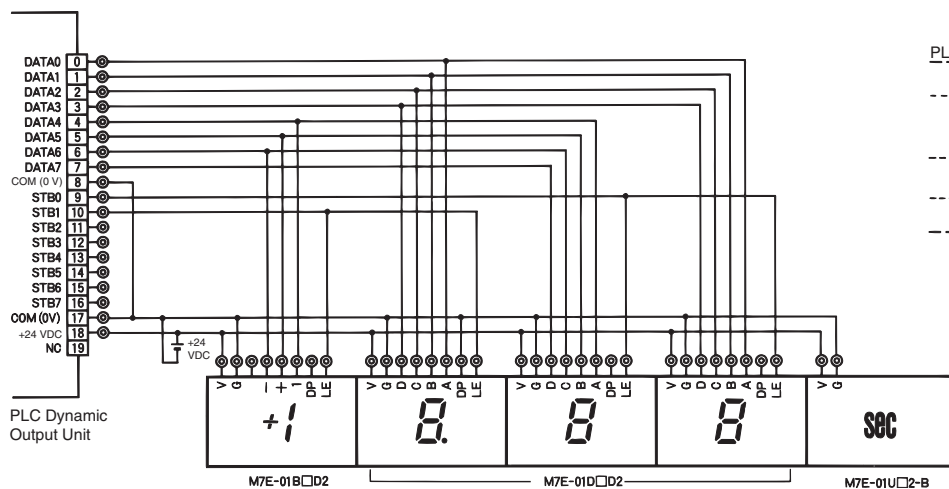
Connected to CS1W-OD261 and CJ1W-OD231 Transistor Output Unit



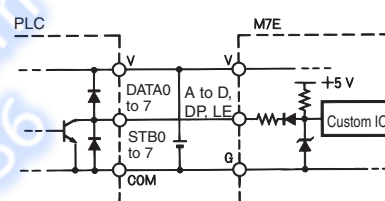
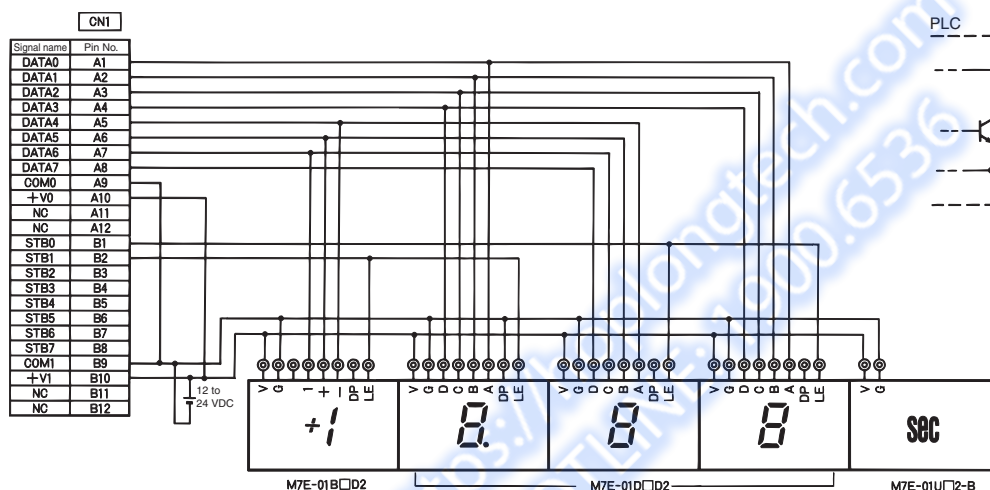
Using Dynamic Output Units

1. M7E-01□□D2 Dynamic Output Model

1. Connected to C500-OD211 Transistor Output Unit *1 *3



2. Connected to C200H-OD215 Transistor Output Unit *2 *3



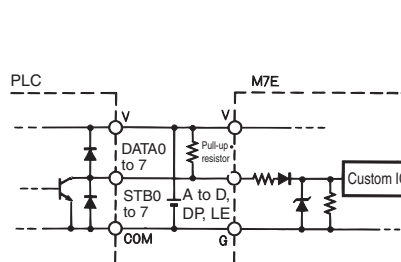
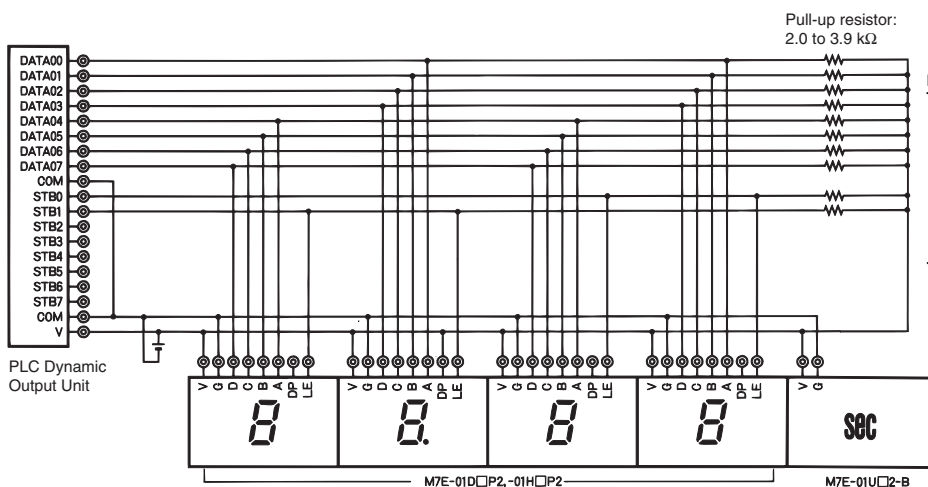
Note: 1. When using the C200H-OD215, the selector on the rear cover of the C200H-OD215 must be set as follows:

SW1 (dynamic output mode)	ON
SW2	OFF
SW3	OFF
SW4	OFF
SW5 (positive logic output)	ON
SW6	OFF

2. Refer to the C200H High-density I/O Unit operation manual for the C200H-OD215 and refer to the hardware section of the C500 operation manual for the C500-OD211.

2. M7E-01□□P2 Positive Logic Model An external pull-up resistor is required.

Connected to C500-OD211 or C200H-OD215 *1 *2 *3



Note: 1. Supply 24 VDC only. The PLC does not operate with the M7E Negative Logic Model.

2. The resistance of the pull-up resistor is 2.0 to 3.9 kΩ (1 W). A resistance of 3.3 kΩ is recommended.

*1. The reception of orders for C500-OD211 was discontinued at the end of March 2012. The recommended replacements are the CS1W-OD261 and CJ1W-OD263.

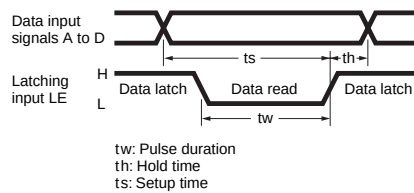
*2. The reception of orders for C200H-OD251 was discontinued at the end of March 2017. The recommended replacements are the CS1W-OD231 and CJ1W-OD231.

*3. The above recommended replacements are not Dynamic Output Units. Therefore, ladder programming will be required to use them as replacements.

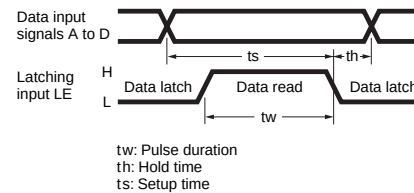
Operation

■ Operation Timing (Input Signal Timing)

Positive Logic



Negative logic



Pulse duration (tw)	1.5 ms min.
Hold time (th)	0.75 ms min.
Setup time (ts)	2.25 ms min.

■ Operation Chart

- The following example shows the relationship between each input terminal signal and the display condition for a Negative-logic Decimal Display Unit with Blanking.

Data	0	1	2	3	4	5	6	7	8	9	Description
Terminal displayed value											
Input signals											
A (2 ⁰)	H	L	H	L	H	L	H	L	H	L	Inputs the data signal as BCD (or binary code).
B (2 ¹)	H	L	H	L	H	L	H	L	H	L	
C (2 ²)	H	L	H	L	H	L	H	L	H	L	
D (2 ³)	H	L	H	L	H	L	H	L	H	L	
DP	H	L	H	L	H	L	H	L	H	L	Low when the decimal point lights.
LE	H	L	H	L	H	L	H	L	H	L	Low when all the display is to be retained. (High is maintained until the signal goes low.)
Display condition	0	1	2	3	4	5	5	6	7	8	9
Remarks	The "1" display is retained by the LE signal.					The "5" display is retained by the LE signal.					

- Using the latch input (LE) terminal for each Unit, the data input terminals (A to D) can be used in common yet still enable display on each Unit (example of a 3-digit dynamic-output model with positive logic).

Data input signals (A to D)	0 (power: ON)	5	7	6	1	
Latch input signals						
3 rd digit (LE3)	H	L	H	L	H	3 rd digit display change
2 nd digit (LE2)	H	L	H	L	H	2 nd -digit display change
1 st digit (LE1)	H	L	H	L	H	1 st -digit display change
Display condition	000	500	570	576	176	3 rd -digit display change
						A numeric value is displayed one digit at a time via data signals A to D.

Example of Zero Suppression Usage: Description Using Negative Logic Model

The zero suppression function operates when the display is 0, RBI is low and the decimal point is not lit.

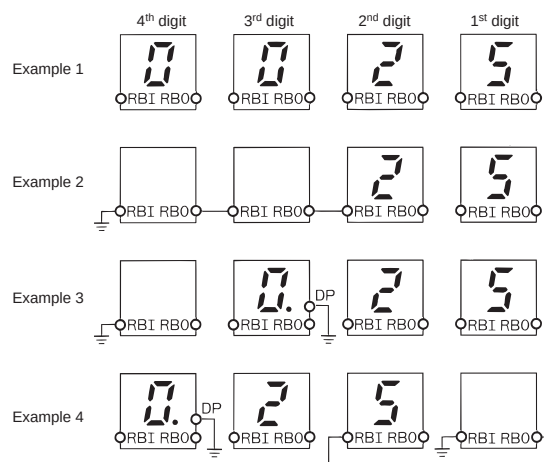
Example 1: The RBI input and RBO output of each digit are open when zero suppression is not being used.

Example 2: Wired as shown to display only 0 for the rightmost digit when zero suppression is being used.

Example 3: Zeros are suppressed only for the digits on the left of the digit where the decimal is lit when both zero suppression and a decimal point are being used.

Example 4: Zeros are suppressed to the right of the first digit below the decimal point when both zero suppression and a decimal point are being used. If the first-to-fourth-digit values are all 0 and the decimal point is lit at the fourth digit, 0.0000 will be displayed. (There is no data in 0000.)

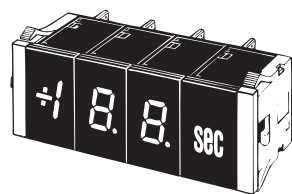
Note: Use RBO output for the RBI input connection only.



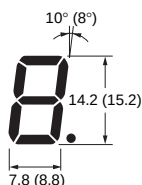
Dimensions

Note: All units are in millimeters unless otherwise indicated.

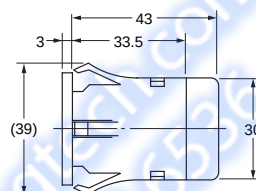
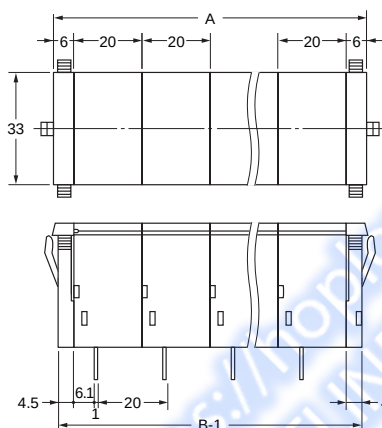
M7E-01□□□□2



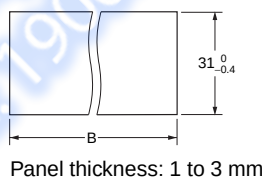
LED



Values in parentheses are for the two-color (red and green) Digital Display Units.



Panel cutout



Panel thickness: 1 to 3 mm

(Unit: mm)

Number of Units (n)	Dimensions A (n×20+12)	Dimensions B (n×20+10)
1	32±0.4	30±0.4
2	52±0.4	50±0.4
3	72±0.4	70±0.4
4	92±0.4	90±0.4
5	112±0.8	110±0.8
6	132±0.8	130±0.8
7	152±0.8	150±0.8
8	172±0.8	170±0.8

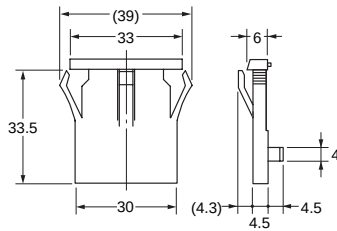
Note: 1. Dimensions A and B include End Plates. Inclusion of spacers increases the length by 10 mm per spacer.
2. Tolerance is ±0.4 mm unless otherwise specified.

■ Accessories (Order Separately)

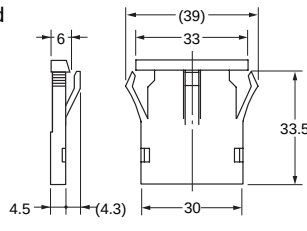
End Plate

M7E-012M(-1)

Left End



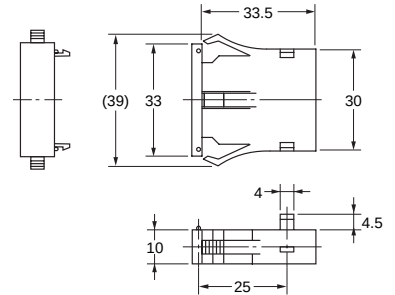
Right End



Note: Tolerance is ± 0.4 mm unless otherwise specified.

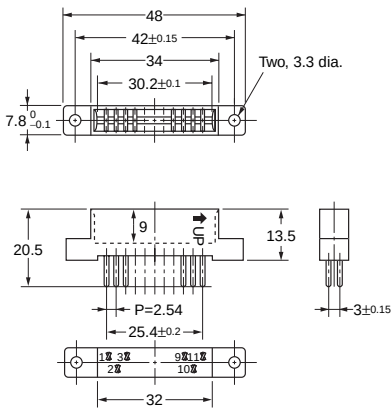
Spacer

M7E-012PA(-1)

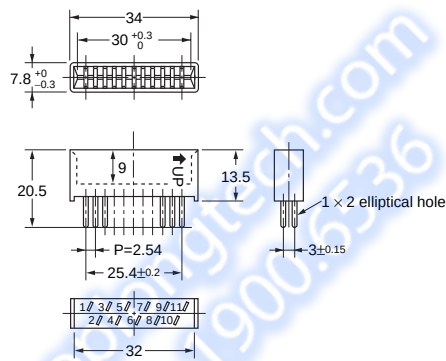


Connector

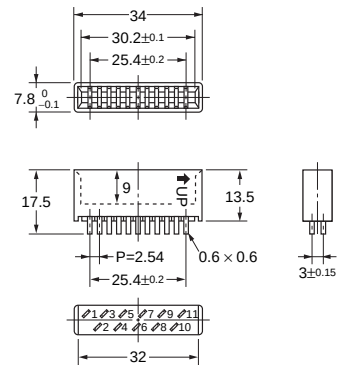
NRT-C Soldered Terminal



NRT-CN Soldered Terminal



NRT-CP PCB Terminal



Face Plate

- The required face plate is used with the Unit Display Unit, which incorporates a surface-lighting LED.
- The following face plates are available. When ordering the M7E-01U□2-□, add the suffix according to your requirement.
- Custom face plates can be made.

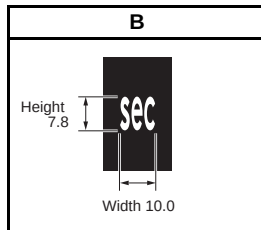
Symbol	A	B	C	D	E	F	G	H	J	JC1	K	V	Z1
Display contents	Blank display	sec	min	h	g	kg	mm	cm	m	m/min	°C	rpm	%

Character Dimensions

(Unit: mm)

Height	—	7.8	11.0	9.7	10.5	13.8	7.5	7.5	7.5	12.5	9.2	10.5	9.0
Width	—	10.0	10.0	5.0	5.0	10.0	10.5	10.0	8.5	12.0	9.5	11.0	9.0

Example of Dimensions



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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