

W 11 × H 22 mm 16-segment Display Units



D1AA Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Displays 61 types of characters and signs (0 to 9, A to Z, 24 symbols, decimal point)
- Selectable input logic (positive/negative), data input type (parallel/serial)
- 16-segment in red/green
- Wide range of input signal level (Low : 0 - 1.2 VDC≐, High : 4.5 - 24 VDC≐)
- 12 - 24 VDC≐ power supply
- Multi-stage connection available

Specifications

Model	D1AA-RN	D1AA-GN
Display method	16-segment LED (red)	16-segment LED (green)
Power supply	12 - 24 VDC≐	
Allowable voltage range	90 to 110 % of power supply	
Current consumption	≤ 32 mA	
Size	W 11 × H 22 mm	
Display character	61 characters and symbols (0 to 9, A to Z, 24 symbols, decimal point)	
Input	Parallel: Parallel 6 bits data, LATCH, decimal point Serial : Serial 6 / 7 bits data, CLOCK, LATCH, decimal point ⁽⁰¹⁾	
Input resistance	20 kΩ	
Input level	High: 4.5 - 24 VDC≐, Low: 0 - 1.2 VDC≐	
Max. Clock ⁽⁰²⁾	≤ 3 kHz	
Output	Data output (serial input)	
Input logic	Positive logic (PNP), negative logic (NPN) selectable (by inner soldering)	
Noise immunity	± 300 V the square wave noise (pulse width: 1 μs) by the noise simulator	
Ambient temperature	0 to 60 °C, storage: -10 to 85 °C (no freezing or condensation)	
Ambient humidity	35 to 85 %RH (no freezing or condensation)	
Accessory	Connector (CT-10S)	
Approval	EAC	
Weight (packaged) ⁽⁰³⁾	≈ 16 g (≈ 131 g)	

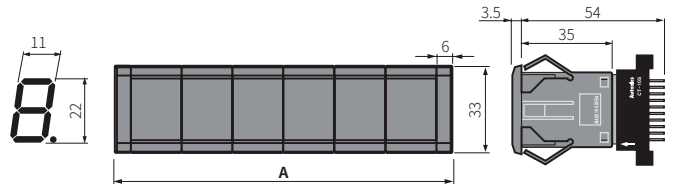
01) When applying the serial 6 bits input.

02) Max. Clock is for 1:1 of duty ratio (ON, OFF ratio).

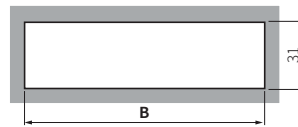
03) The package weight is based on four.

Dimensions

• Unit: mm, For the detailed drawings, follow the Autonics website.

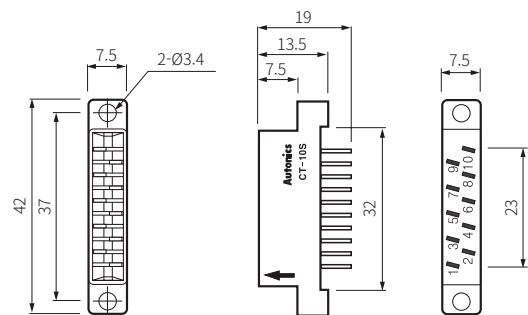


Panel cut-out

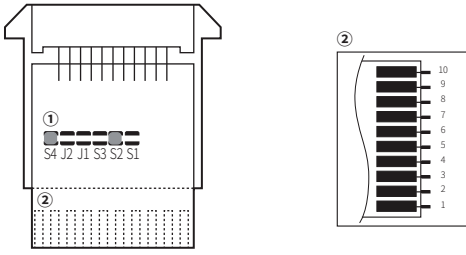


Digit (N)	Size A (20×N+12)	Size B (20×N+10)
1	32	30 ± 0.1
2	52	50 ± 0.1
3	72	70 ± 0.1
4	92	90 ± 0.1
5	112	110 ± 0.1
6	132	130 ± 0.1
7	152	150 ± 0.1
8	172	170 ± 0.1

Connector (CT-10S)



Unit Descriptions



① Function set switches

- Open OFF / Short ON

No.	ON	OFF	Function	Default
S1	-	-	-	OFF
S2	Parallel	Serial	Input	ON
S3	7 bits	6 bits	Select serial input	OFF
J1	Use	Not used	Serial data output ⁽¹⁾	OFF
J2	-	-	-	OFF ⁽²⁾
S4	Negative logic (NPN)	Positive logic (PNP)	Input logic	ON

(1) Set as ON in serial input, as OFF in parallel input.

(2) Do not change the soldering. (OFF fixed)

② I/O terminal

Terminal	Input		Serial input	
	Code	Function	Code	Function
1	VCC	12 - 24 VDC \equiv	VCC	12 - 24 VDC \equiv
2	D0	Data input	N · C	-
3	D1		CK	Clock input
4	D2		DI	Data input
5	D3		DO	Data output
6	D4		N · C	-
7	D5		N · C	-
8	LE		LATCH input	LE
9	DP	Decimal point input	DP	Decimal point input
10	GND	0 V	GND	0 V

Sold Separately

- Caps: DAR (L)-R (1 set - left and right, D1SA-RN dedicated)
- Caps: DAR (L)-BL (1 set - left and right, D1SA-GN dedicated)

Sold Separately: Caps (DAR(L)-□)

- Unit: mm, For the detailed drawings, follow the Autonics website.



- D1SA-RN: DAR(L)-R (left-right)
- D1SA-GN: DAR(L)-BL (left-right)
- Caps are sold as an one set (left-right).