

W 11 × H 22 mm 7-segment Display Units



D1SA 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

- Selectable decimal (0 to 9)/hexadecimal (0 to 9, A to F) display, input logic (positive / negative), data input method (serial / parallel)
- 7-segment, red / green display
- 12 - 24 VDC \equiv power supply
- Wide range on signal input voltage level (Low: max. 0 - 1.2 VDC \equiv , High: 4.5 - 24 VDC \equiv)
- Easy multi-stages connection
- Zero Blanking function

Specifications

Model	D1SA-RN	D1SA-GN
Display method	7-segment LED (red)	7-segment LED (green)
Power supply	12 - 24 VDC \equiv	
Allowable voltage range	90 to 110 % of power supply	
Current consumption	\leq 35 mA	
Size	W 11 × H 22 mm	
Display character	Decimal number: 0 to 9, decimal point Hexadecimal number: 0 to 9, A to F, decimal point ⁰¹⁾	
Input	Parallel: Parallel 4-bit data, LATCH, Zero Blanking, decimal point Serial: Serial 4 / 5-bit data, CLOCK, Zero Blanking, LATCH, decimal point ⁰²⁾	
Input resistance	20 k Ω	
Input level	High: 4.5 - 24 VDC \equiv , Low: 0 - 1.2 VDC \equiv	
Max. Clock ⁰²⁾	\leq 3 kHz	
Output	Data output (serial input), Zero Blanking output	
Input logic	Positive logic (PNP), negative logic (NPN) selectable (function set switches)	
Noise immunity	Between power terminals or input terminals : \pm 300 V the square wave noise (pulse width: 1 μ s) 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	ERC	
Weight (packaged) ⁰³⁾	\approx 16 g (\approx 131 g)	

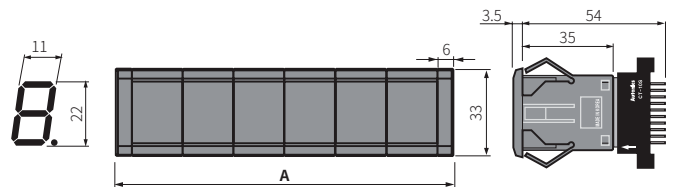
01) When applying the serial 4-bit input.

02) Max. Clock is for 50 : 50 (%) of duty ratio (ON, OFF ratio).

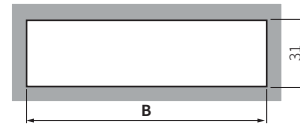
03) The package weight is based on four.

Dimensions

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

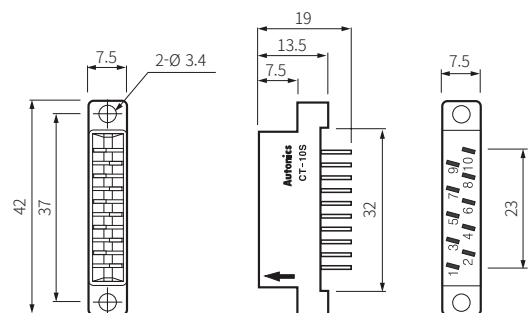


Panel cut-out

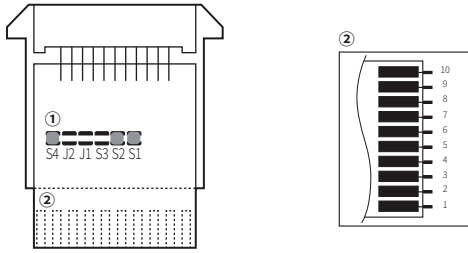


Digit (N)	Size A (20 × N + 12)	Size B (20 × N + 10)
1	32	30 ± 0.1
2	52	50 ± 0.1
3	72	70 ± 0.1
4	92	90 ± 0.1
5	112	110 ± 0.1
6	132	130 ± 0.1
7	152	150 ± 0.1
8	172	170 ± 0.1

Connector (CT-10S)



Unit Descriptions



① Function set switches

- Open OFF / Short ON

No.	ON	OFF	Function	Default
S1	Decimal number	Hexadecimal number	Display characters	ON
S2	Parallel	Serial	Input	ON
S3	5 bits	4 bits	Select serial input	OFF
J1	Use	Not used	Serial data output ⁰¹⁾	OFF
J2	Use	Not used	Zero Blanking	OFF
S4	Negative logic (NPN)	Positive logic (PNP)	Input logic	ON

01) Set as ON in serial input, as OFF in parallel input.

② I/O terminal

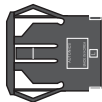
Terminal	Input		Serial input	
	Code	Function	Code	Function
1	V+	12 - 24 VDC==	VCC	12 - 24 VDC==
2	D0	Data input	N · C	-
3	D1		CK	Clock input
4	D2		DI	Data input
5	D3		DO	Data output
6	BI	Zero Blanking input	BI	Zero Blanking input
7	BO	Zero Blanking output	BO	Zero Blanking output
8	LE	LATCH input	LE	LATCH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

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).