

COMPACT SIZE HIGH PRECISION TIMERS VARIOUS OUTPUT & OPERATION MODE TYPES

S1DX



Features

· Large dial for improved visibility and operability

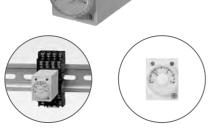
• Four operation modes

(Power ON-delay, Power flicker, Power one-shot, Power one-cycle)



· LED display for easy operation check.

 Mounting frame available for easy panel installation.



Product types

Plug-in terminal

1) Power ON-delay AC operating type

	Time renge	24V AC	100 to 120V AC	200 to 220V AC	220 to 240V AC
	Time range	Part No.	Part No.	Part No.	Part No.
-	0.05 to 0.5 s	S1DX-A2C0.5S-AC24V	S1DX-A2C0.5S-AC120V	S1DX-A2C0.5S-AC220V	S1DX-A2C0.5S-AC240V
	0.1 to 1 s	S1DX-A2C1S-AC24V	S1DX-A2C1S-AC120V	S1DX-A2C1S-AC220V	S1DX-A2C1S-AC240V
	0.1 to 3 s	S1DX-A2C3S-AC24V	S1DX-A2C3S-AC120V	S1DX-A2C3S-AC220V	S1DX-A2C3S-AC240V
	0.2 to 5 s	S1DX-A2C5S-AC24V	S1DX-A2C5S-AC120V	S1DX-A2C5S-AC220V	S1DX-A2C5S-AC240V
	0.5 to 10 s	S1DX-A2C10S-AC24V	S1DX-A2C10S-AC120V	S1DX-A2C10S-AC220V	S1DX-A2C10S-AC240V
Time-out	1 to 30 s	S1DX-A2C30S-AC24V	S1DX-A2C30S-AC120V	S1DX-A2C30S-AC220V	S1DX-A2C30S-AC240V
2 Form C type	3 to 60 s	S1DX-A2C60S-AC24V	S1DX-A2C60S-AC120V	S1DX-A2C60S-AC220V	S1DX-A2C60S-AC240V
.)po	0.1 to 3 min	S1DX-A2C3M-AC24V	S1DX-A2C3M-AC120V	S1DX-A2C3M-AC220V	S1DX-A2C3M-AC240V
	0.5 to 10 min	S1DX-A2C10M-AC24V	S1DX-A2C10M-AC120V	S1DX-A2C10M-AC220V	S1DX-A2C10M-AC240V
	1 to 30 min	S1DX-A2C30M-AC24V	S1DX-A2C30M-AC120V	S1DX-A2C30M-AC220V	S1DX-A2C30M-AC240V
	3 to 60 min	S1DX-A2C60M-AC24V	S1DX-A2C60M-AC120V	S1DX-A2C60M-AC220V	S1DX-A2C60M-AC240V
	0.1 to 3 h	S1DX-A2C3H-AC24V	S1DX-A2C3H-AC120V	S1DX-A2C3H-AC220V	S1DX-A2C3H-AC240V
	0.05 to 0.5 s	S1DX-A4C0.5S-AC24V	S1DX-A4C0.5S-AC120V	S1DX-A4C0.5S-AC220V	S1DX-A4C0.5S-AC240
	0.1 to 1 s	S1DX-A4C1S-AC24V	S1DX-A4C1S-AC120V	S1DX-A4C1S-AC220V	S1DX-A4C1S-AC240V
	0.1 to 3 s	S1DX-A4C3S-AC24V	S1DX-A4C3S-AC120V	S1DX-A4C3S-AC220V	S1DX-A4C3S-AC240V
	0.2 to 5 s	S1DX-A4C5S-AC24V	S1DX-A4C5S-AC120V	S1DX-A4C5S-AC220V	S1DX-A4C5S-AC240V
	0.5 to 10 s	S1DX-A4C10S-AC24V	S1DX-A4C10S-AC120V	S1DX-A4C10S-AC220V	S1DX-A4C10S-AC240V
Time-out	1 to 30 s	S1DX-A4C30S-AC24V	S1DX-A4C30S-AC120V	S1DX-A4C30S-AC220V	S1DX-A4C30S-AC240V
4 Form C type	3 to 60 s	S1DX-A4C60S-AC24V	S1DX-A4C60S-AC120V	S1DX-A4C60S-AC220V	S1DX-A4C60S-AC240V
.)po	0.1 to 3 min	S1DX-A4C3M-AC24V	S1DX-A4C3M-AC120V	S1DX-A4C3M-AC220V	S1DX-A4C3M-AC240V
	0.5 to 10 min	S1DX-A4C10M-AC24V	S1DX-A4C10M-AC120V	S1DX-A4C10M-AC220V	S1DX-A4C10M-AC240V
	1 to 30 min	S1DX-A4C30M-AC24V	S1DX-A4C30M-AC120V	S1DX-A4C30M-AC220V	S1DX-A4C30M-AC240V
	3 to 60 min	S1DX-A4C60M-AC24V	S1DX-A4C60M-AC120V	S1DX-A4C60M-AC220V	S1DX-A4C60M-AC240
	0.1 to 3 h	S1DX-A4C3H-AC24V	S1DX-A4C3H-AC120V	S1DX-A4C3H-AC220V	S1DX-A4C3H-AC240V

Notes: 1. Wire springs for HC relay terminal socket (ADX18005) are included. 2. You cannot use socket line holding clip when using the HJ relay terminal socket. Therefore, please procure a S1DX socket leaf holding clip B (ADX18012: dedicated socket leaf holding clip for HJ relay terminal socket).

Power ON-delay DC operating type

	Timo rongo	12V DC	24V DC	48V DC	100 to 110V DC
	Time range	Part No.	Part No.	Part No.	Part No.
	0.05 to 0.5 s	S1DX-A2C0.5S-DC12V	S1DX-A2C0.5S-DC24V	S1DX-A2C0.5S-DC48V	S1DX-A2C0.5S-DC110V
-	0.1 to 1 s	S1DX-A2C1S-DC12V	S1DX-A2C1S-DC24V	S1DX-A2C1S-DC48V	S1DX-A2C1S-DC110V
	0.1 to 3 s	S1DX-A2C3S-DC12V	S1DX-A2C3S-DC24V	S1DX-A2C3S-DC48V	S1DX-A2C3S-DC110V
	0.2 to 5 s	S1DX-A2C5S-DC12V	S1DX-A2C5S-DC24V	S1DX-A2C5S-DC48V	S1DX-A2C5S-DC110V
	0.5 to 10 s	S1DX-A2C10S-DC12V	S1DX-A2C10S-DC24V	S1DX-A2C10S-DC48V	S1DX-A2C10S-DC110V
Time-out	1 to 30 s	S1DX-A2C30S-DC12V	S1DX-A2C30S-DC24V	S1DX-A2C30S-DC48V	S1DX-A2C30S-DC110V
2 Form C type	3 to 60 s	S1DX-A2C60S-DC12V	S1DX-A2C60S-DC24V	S1DX-A2C60S-DC48V	S1DX-A2C60S-DC110V
.)po	0.1 to 3 min	S1DX-A2C3M-DC12V	S1DX-A2C3M-DC24V	S1DX-A2C3M-DC48V	S1DX-A2C3M-DC110V
	0.5 to 10 min	S1DX-A2C10M-DC12V	S1DX-A2C10M-DC24V	S1DX-A2C10M-DC48V	S1DX-A2C10M-DC110V
	1 to 30 min	S1DX-A2C30M-DC12V	S1DX-A2C30M-DC24V	S1DX-A2C30M-DC48V	S1DX-A2C30M-DC110V
	3 to 60 min	S1DX-A2C60M-DC12V	S1DX-A2C60M-DC24V	S1DX-A2C60M-DC48V	S1DX-A2C60M-DC110V
-	0.1 to 3 h	S1DX-A2C3H-DC12V	S1DX-A2C3H-DC24V	S1DX-A2C3H-DC48V	S1DX-A2C3H-DC110V
	0.05 to 0.5 s	S1DX-A4C0.5S-DC12V	S1DX-A4C0.5S-DC24V	S1DX-A4C0.5S-DC48V	S1DX-A4C0.5S-DC110
	0.1 to 1 s	S1DX-A4C1S-DC12V	S1DX-A4C1S-DC24V	S1DX-A4C1S-DC48V	S1DX-A4C1S-DC110V
	0.1 to 3 s	S1DX-A4C3S-DC12V	S1DX-A4C3S-DC24V	S1DX-A4C3S-DC48V	S1DX-A4C3S-DC110V
	0.2 to 5 s	S1DX-A4C5S-DC12V	S1DX-A4C5S-DC24V	S1DX-A4C5S-DC48V	S1DX-A4C5S-DC110V
	0.5 to 10 s	S1DX-A4C10S-DC12V	S1DX-A4C10S-DC24V	S1DX-A4C10S-DC48V	S1DX-A4C10S-DC110V
Time-out	1 to 30 s	S1DX-A4C30S-DC12V	S1DX-A4C30S-DC24V	S1DX-A4C30S-DC48V	S1DX-A4C30S-DC110V
4 Form C type	3 to 60 s	S1DX-A4C60S-DC12V	S1DX-A4C60S-DC24V	S1DX-A4C60S-DC48V	S1DX-A4C60S-DC110V
	0.1 to 3 min	S1DX-A4C3M-DC12V	S1DX-A4C3M-DC24V	S1DX-A4C3M-DC48V	S1DX-A4C3M-DC110V
	0.5 to 10 min	S1DX-A4C10M-DC12V	S1DX-A4C10M-DC24V	S1DX-A4C10M-DC48V	S1DX-A4C10M-DC110V
	1 to 30 min	S1DX-A4C30M-DC12V	S1DX-A4C30M-DC24V	S1DX-A4C30M-DC48V	S1DX-A4C30M-DC110V
	3 to 60 min	S1DX-A4C60M-DC12V	S1DX-A4C60M-DC24V	S1DX-A4C60M-DC48V	S1DX-A4C60M-DC110V
	0.1 to 3 h	S1DX-A4C3H-DC12V	S1DX-A4C3H-DC24V	S1DX-A4C3H-DC48V	S1DX-A4C3H-DC110V

Notes: 1. Socket line holding clips for HC relay terminal socket (ADX18005) are included.

2. You cannot use socket line holding clip when using the HJ relay terminal socket. Therefore, please procure a S1DX socket leaf holding clip B (ADX18012: dedicated socket leaf holding clip for HJ relay terminal socket).

2) Power flicker (Please change "A" to "F" of the part number with the same specifications as the power on-delay type.) Example: $S1DX-A2C1S-DC12V \rightarrow S1DX-F2C1S-DC12V$

	Time range	100 to 120 V AC	200 to 220 V AC	12 V DC	24 V DC	48 V DC	100 to 110 V DC
	Time range	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
	0.1 to 1 s	S1DX-F2C1S-AC120V	S1DX-F2C1S-AC220V	S1DX-F2C1S-DC12V	S1DX-F2C1S-DC24V	S1DX-F2C1S-DC48V	S1DX-F2C1S-DC110V
	0.1 to 3 s	S1DX-F2C3S-AC120V	S1DX-F2C3S-AC220V	S1DX-F2C3S-DC12V	S1DX-F2C3S-DC24V	S1DX-F2C3S-DC48V	S1DX-F2C3S-DC110V
Timed-out	0.2 to 5 s	S1DX-F2C5S-AC120V	S1DX-F2C5S-AC220V	S1DX-F2C5S-DC12V	S1DX-F2C5S-DC24V	S1DX-F2C5S-DC48V	S1DX-F2C5S-DC110V
2 Form C	0.5 to 10 s	S1DX-F2C10S-AC120V	S1DX-F2C10S-AC220V	S1DX-F2C10S-DC12V	S1DX-F2C10S-DC24V	S1DX-F2C10S-DC48V	S1DX-F2C10S-DC110V
type	1 to 30 s	S1DX-F2C30S-AC120V	S1DX-F2C30S-AC220V	S1DX-F2C30S-DC12V	S1DX-F2C30S-DC24V	S1DX-F2C30S-DC48V	S1DX-F2C30S-DC110V
	3 to 60 s	S1DX-F2C60S-AC120V	S1DX-F2C60S-AC220V	S1DX-F2C60S-DC12V	S1DX-F2C60S-DC24V	S1DX-F2C60S-DC48V	S1DX-F2C60S-DC110V
	0.1 to 3 min	S1DX-F2C3M-AC120V	S1DX-F2C3M-AC220V	S1DX-F2C3M-DC12V	S1DX-F2C3M-DC24V	S1DX-F2C3M-DC48V	S1DX-F2C3M-DC110V
	0.1 to 1 s	S1DX-F4C1S-AC120V	S1DX-F4C1S-AC220V	S1DX-F4C1S-DC12V	S1DX-F4C1S-DC24V	S1DX-F4C1S-DC48V	S1DX-F4C1S-DC110V
	0.1 to 3 s	S1DX-F4C3S-AC120V	S1DX-F4C3S-AC220V	S1DX-F4C3S-DC12V	S1DX-F4C3S-DC24V	S1DX-F4C3S-DC48V	S1DX-F4C3S-DC110V
Timed-out	0.2 to 5 s	S1DX-F4C5S-AC120V	S1DX-F4C5S-AC220V	S1DX-F4C5S-DC12V	S1DX-F4C5S-DC24V	S1DX-F4C5S-DC48V	S1DX-F4C5S-DC110V
4 Form C	0.5 to 10 s	S1DX-F4C10S-AC120V	S1DX-F4C10S-AC220V	S1DX-F4C10S-DC12V	S1DX-F4C10S-DC24V	S1DX-F4C10S-DC48V	S1DX-F4C10S-DC110V
type	1 to 30 s	S1DX-F4C30S-AC120V	S1DX-F4C30S-AC220V	S1DX-F4C30S-DC12V	S1DX-F4C30S-DC24V	S1DX-F4C30S-DC48V	S1DX-F4C30S-DC110V
	3 to 60 s	S1DX-F4C60S-AC120V	S1DX-F4C60S-AC220V	S1DX-F4C60S-DC12V	S1DX-F4C60S-DC24V	S1DX-F4C60S-DC48V	S1DX-F4C60S-DC110V
	0.1 to 3 min	S1DX-F4C3M-AC120V	S1DX-F4C3M-AC220V	S1DX-F4C3M-DC12V	S1DX-F4C3M-DC24V	S1DX-F4C3M-DC48V	S1DX-F4C3M-DC110V

Notes: 1. Socket line holding clips for HC relay terminal socket (ADX18005) are included.

2. You cannot use socket line holding clip when using the HJ relay terminal socket. Therefore, please procure a S1DX socket leaf holding clip B (ADX18012: dedicated socket leaf holding clip for HJ relay terminal socket).

S1DX

3) Power one-shot (Please change "A" to "S" of the part number with the same specifications as the power on-delay type.) Example: S1DX-A2C1S-DC12V → S1DX-S2C1S-DC12V

	Timo rongo	100 to 120 V AC	200 to 220 V AC	12 V DC	24 V DC	48 V DC	100 to 110 V DC
	Time range	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
	0.1 to 1 s	S1DX-S2C1S-AC120V	S1DX-S2C1S-AC220V	S1DX-S2C1S-DC12V	S1DX-S2C1S-DC24V	S1DX-S2C1S-DC48V	S1DX-S2C1S-DC110V
	0.1 to 3 s	S1DX-S2C3S-AC120V	S1DX-S2C3S-AC220V	S1DX-S2C3S-DC12V	S1DX-S2C3S-DC24V	S1DX-S2C3S-DC48V	S1DX-S2C3S-DC110V
Timed-out	0.2 to 5 s	S1DX-S2C5S-AC120V	S1DX-S2C5S-AC220V	S1DX-S2C5S-DC12V	S1DX-S2C5S-DC24V	S1DX-S2C5S-DC48V	S1DX-S2C5S-DC110V
2 Form C	0.5 to 10 s	S1DX-S2C10S-AC120V	S1DX-S2C10S-AC220V	S1DX-S2C10S-DC12V	S1DX-S2C10S-DC24V	S1DX-S2C10S-DC48V	S1DX-S2C10S-DC110V
type	1 to 30 s	S1DX-S2C30S-AC120V	S1DX-S2C30S-AC220V	S1DX-S2C30S-DC12V	S1DX-S2C30S-DC24V	S1DX-S2C30S-DC48V	S1DX-S2C30S-DC110V
	3 to 60 s	S1DX-S2C60S-AC120V	S1DX-S2C60S-AC220V	S1DX-S2C60S-DC12V	S1DX-S2C60S-DC24V	S1DX-S2C60S-DC48V	S1DX-S2C60S-DC110V
	0.1 to 3 min	S1DX-S2C3M-AC120V	S1DX-S2C3M-AC220V	S1DX-S2C3M-DC12V	S1DX-S2C3M-DC24V	S1DX-S2C3M-DC48V	S1DX-S2C3M-DC110V
	0.1 to 1 s	S1DX-S4C1S-AC120V	S1DX-S4C1S-AC220V	S1DX-S4C1S-DC12V	S1DX-S4C1S-DC24V	S1DX-S4C1S-DC48V	S1DX-S4C1S-DC110V
	0.1 to 3 s	S1DX-S4C3S-AC120V	S1DX-S4C3S-AC220V	S1DX-S4C3S-DC12V	S1DX-S4C3S-DC24V	S1DX-S4C3S-DC48V	S1DX-S4C3S-DC110V
Timed-out	0.2 to 5 s	S1DX-S4C5S-AC120V	S1DX-S4C5S-AC220V	S1DX-S4C5S-DC12V	S1DX-S4C5S-DC24V	S1DX-S4C5S-DC48V	S1DX-S4C5S-DC110V
4 Form C	0.5 to 10 s	S1DX-S4C10S-AC120V	S1DX-S4C10S-AC220V	S1DX-S4C10S-DC12V	S1DX-S4C10S-DC24V	S1DX-S4C10S-DC48V	S1DX-S4C10S-DC110V
type	1 to 30 s	S1DX-S4C30S-AC120V	S1DX-S4C30S-AC220V	S1DX-S4C30S-DC12V	S1DX-S4C30S-DC24V	S1DX-S4C30S-DC48V	S1DX-S4C30S-DC110V
	3 to 60 s	S1DX-S4C60S-AC120V	S1DX-S4C60S-AC220V	S1DX-S4C60S-DC12V	S1DX-S4C60S-DC24V	S1DX-S4C60S-DC48V	S1DX-S4C60S-DC110V
	0.1 to 3 min	S1DX-S4C3M-AC120V	S1DX-S4C3M-AC220V	S1DX-S4C3M-DC12V	S1DX-S4C3M-DC24V	S1DX-S4C3M-DC48V	S1DX-S4C3M-DC110V

Notes: 1. Socket line holding clips for HC relay terminal socket (ADX18005) are included.

2. You cannot use socket line holding clip when using the HJ relay terminal socket. Therefore, please procure a S1DX socket leaf holding clip B (ADX18012: dedicated socket leaf holding clip for HJ relay terminal socket).

4) Power one-cycle (Please change "A" to "C" of the part number with the same specifications as the power on-delay type.) Example: S1DX-A2C1S-DC12V → S1DX-C2C1S-DC12V

	Time renge	100 to 120 V AC	200 to 220 V AC	12 V DC	24 V DC	48 V DC	100 to 110 V DC
	Time range	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
	0.1 to 1 s	S1DX-C2C1S-AC120V	S1DX-C2C1S-AC220V	S1DX-C2C1S-DC12V	S1DX-C2C1S-DC24V	S1DX-C2C1S-DC48V	S1DX-C2C1S-DC110V
	0.1 to 3 s	S1DX-C2C3S-AC120V	S1DX-C2C3S-AC220V	S1DX-C2C3S-DC12V	S1DX-C2C3S-DC24V	S1DX-C2C3S-DC48V	S1DX-C2C3S-DC110V
Timed-out	0.2 to 5 s	S1DX-C2C5S-AC120V	S1DX-C2C5S-AC220V	S1DX-C2C5S-DC12V	S1DX-C2C5S-DC24V	S1DX-C2C5S-DC48V	S1DX-C2C5S-DC110V
2 Form C	0.5 to 10 s	S1DX-C2C10S-AC120V	S1DX-C2C10S-AC220V	S1DX-C2C10S-DC12V	S1DX-C2C10S-DC24V	S1DX-C2C10S-DC48V	S1DX-C2C10S-DC110V
type	1 to 30 s	S1DX-C2C30S-AC120V	S1DX-C2C30S-AC220V	S1DX-C2C30S-DC12V	S1DX-C2C30S-DC24V	S1DX-C2C30S-DC48V	S1DX-C2C30S-DC110V
	3 to 60 s	S1DX-C2C60S-AC120V	S1DX-C2C60S-AC220V	S1DX-C2C60S-DC12V	S1DX-C2C60S-DC24V	S1DX-C2C60S-DC48V	S1DX-C2C60S-DC110V
	0.1 to 3 min	S1DX-C2C3M-AC120V	S1DX-C2C3M-AC220V	S1DX-C2C3M-DC12V	S1DX-C2C3M-DC24V	S1DX-C2C3M-DC48V	S1DX-C2C3M-DC110V
	0.1 to 1 s	S1DX-C4C1S-AC120V	S1DX-C4C1S-AC220V	S1DX-C4C1S-DC12V	S1DX-C4C1S-DC24V	S1DX-C4C1S-DC48V	S1DX-C4C1S-DC110V
	0.1 to 3 s	S1DX-C4C3S-AC120V	S1DX-C4C3S-AC220V	S1DX-C4C3S-DC12V	S1DX-C4C3S-DC24V	S1DX-C4C3S-DC48V	S1DX-C4C3S-DC110V
Timed-out	0.2 to 5 s	S1DX-C4C5S-AC120V	S1DX-C4C5S-AC220V	S1DX-C4C5S-DC12V	S1DX-C4C5S-DC24V	S1DX-C4C5S-DC48V	S1DX-C4C5S-DC110V
4 Form C	0.5 to 10 s	S1DX-C4C10S-AC120V	S1DX-C4C10S-AC220V	S1DX-C4C10S-DC12V	S1DX-C4C10S-DC24V	S1DX-C4C10S-DC48V	S1DX-C4C10S-DC110V
type	1 to 30 s	S1DX-C4C30S-AC120V	S1DX-C4C30S-AC220V	S1DX-C4C30S-DC12V	S1DX-C4C30S-DC24V	S1DX-C4C30S-DC48V	S1DX-C4C30S-DC110V
	3 to 60 s	S1DX-C4C60S-AC120V	S1DX-C4C60S-AC220V	S1DX-C4C60S-DC12V	S1DX-C4C60S-DC24V	S1DX-C4C60S-DC48V	S1DX-C4C60S-DC110V
	0.1 to 3 min	S1DX-C4C3M-AC120V	S1DX-C4C3M-AC220V	S1DX-C4C3M-DC12V	S1DX-C4C3M-DC24V	S1DX-C4C3M-DC48V	S1DX-C4C3M-DC110V

Notes: 1. Socket line holding clips for HC relay terminal socket (ADX18005) are included.

You cannot use socket line holding clip when using the HJ relay terminal socket. Therefore, please procure a S1DX socket leaf holding clip B (ADX18012: dedicated socket leaf holding clip for HJ relay terminal socket).
 Also, power flicker, power one-shot and power one-cycle types can be used with other time ranges (10 minutes to 3 hours). Please inquire.

24 V AC and 240 V AC types can also be ordered.

PC board terminal

1) Power ON-delay

	Time range	100 to 120V AC	200 to 220V AC	24V DC
	Time range	Part No.	Part No.	Part No.
	0.05 to 0.5 s	S1DX-A2C0.5S-AC120VP	S1DX-A2C0.5S-AC220VP	S1DX-A2C0.5S-DC24VP
	0.1 to 1 s	S1DX-A2C1S-AC120VP	S1DX-A2C1S-AC220VP	S1DX-A2C1S-DC24VP
Time-out	0.1 to 3 s	S1DX-A2C3S-AC120VP	S1DX-A2C3S-AC220VP	S1DX-A2C3S-DC24VP
2 Form C	0.2 to 5 s	S1DX-A2C5S-AC120VP	S1DX-A2C5S-AC220VP	S1DX-A2C5S-DC24VP
11	0.5 to 10 s	S1DX-A2C10S-AC120VP	S1DX-A2C10S-AC220VP	S1DX-A2C10S-DC24VP
	1 to 30 s	S1DX-A2C30S-AC120VP	S1DX-A2C30S-AC220VP	S1DX-A2C30S-DC24VP
	3 to 60 s	S1DX-A2C60S-AC120VP	S1DX-A2C60S-AC220VP	S1DX-A2C60S-DC24VP
	0.05 to 0.5 s	S1DX-A4C0.5S-AC120VP	S1DX-A4C0.5S-AC220VP	S1DX-A4C0.5S-DC24VP
	0.1 to 1 s	S1DX-A4C1S-AC120VP	S1DX-A4C1S-AC220VP	S1DX-A4C1S-DC24VP
Time-out	0.1 to 3 s	S1DX-A4C3S-AC120VP	S1DX-A4C3S-AC220VP	S1DX-A4C3S-DC24VP
4 Form C	0.2 to 5 s	S1DX-A4C5S-AC120VP	S1DX-A4C5S-AC220VP	S1DX-A4C5S-DC24VP
type	0.5 to 10 s	S1DX-A4C10S-AC120VP	S1DX-A4C10S-AC220VP	S1DX-A4C10S-DC24VP
	1 to 30 s	S1DX-A4C30S-AC120VP	S1DX-A4C30S-AC220VP	S1DX-A4C30S-DC24VP
	60 s	S1DX-A4C60S-AC120VP	S1DX-A4C60S-AC220VP	S1DX-A4C60S-DC24VP

Specifications

Туре		AC operating type	DC operating type				
Rated operating voltage		100 to 120V, 200 to 220V (50/60Hz common)	12V, 24V, 48V, 100 to 110V				
Rated power cor	nsumption	Max. 3VA	Max. 2W				
Rated control capacity		Timed -out 2 Form C: 7A 250V AC Timed -out 4 Form C: 5A 250V AC (resistive load)					
Operating time fluctuation & Power off time change error		[Except 0.5s & 1s types] Within $\pm 1\%^*$ [0.5s type]: Within $\pm (2\%+10ms)$, [1s type]: Within $\pm (1\%+10ms)$ (power off time change at the range of 0.1 s to 1 h)					
Time accuracy	Voltage error	[Except 0.5s & 1s types] Within ±1%* [0.5s type]: Within ±(2%+10ms), [1s type]: Within ±(1%+10ms) (at the operating voltage changes between -20 to +10%)					
	Temperature error	Within ±5% (at 20°C 68°F ambient temp. at	the range of -10 to +50°C +14 to +122°F)				
	Setting error	Within ±10% (Fu	III-scale value)				
Contact resistance (Initial value)		Max. 100mΩ (at 1A, 6V DC)					
Life	Mechanical (constant)	Min. 10 ⁷					
Lile	Electrical (constant)	Min. 2×10 ⁵ (at rated control capacity)					
Allowable operation	ting voltage range	80 to 110% of rated operating voltage					
Insulation resista	ance (Initial value)	Between live and dead metal parts/input and output Min. 100MΩ Between contact sets (at 500V DC) Between contacts Setween contacts Setween contacts					
Breakdown volta	age (Initial value)	1500Vrms for 1min Between live and dead metal parts/input and output 1500Vrms for 1min Between contact sets 1000Vrms for 1min Between contacts					
Temperature rise	e	Max. 70°C	C 158°F				
Power off time		Max. (D.1s				
Vibration	Functional	10 to 55Hz: 1 cycle/min single ampli	tude of 0.25mm (10min on 3 axes)				
resistance	Destructive	10 to 55Hz: 1 cycle/min single amp	litude of 0.375mm (1h on 3 axes)				
Shock	Functional	Min. 98m/s ² (4 times on 3 axes)					
resistance	Destructive	Min. 980m/s ² (5 times on 3 axes)					
Ambient tempera	ature	-10 to 50°C +14 to 122°F					
Ambient humidit	y	30 to 85% RH (at 20°C 68°F, non-condensing)					

Note: * Power one-shot type of 1 s type: +(2% + 10 ms)

Dimensions (mm inch)

The CAD data of the products with a CAD Data mark can be downloaded from: http://panasonic-electric-works.net/ac

10.4

8-2 dia. hole

13.35

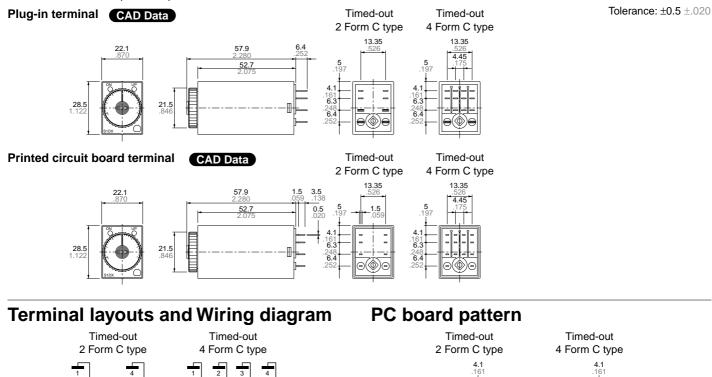
10.

14-2 dia.hole

General tolerance: ±0.1 ±.004

8.9

13.35



Operating

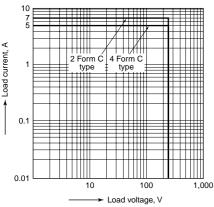
Operating voltage

(For the DC operating type, terminal 14 is +, and terminal 13 is -.)

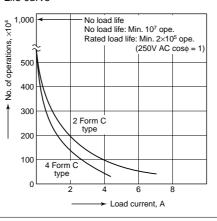
Data

1. Load control capacity and life

Switching capacity

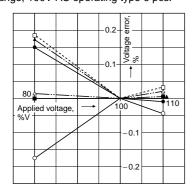


Life curve

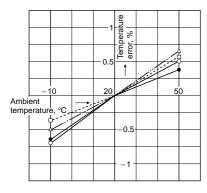


2. Time accuracy

Voltage error test I (typical)3 s range, 100V AC operating type 6 pcs.



• Temperature error test I (typical) 3 s range, 100V AC operating type 4 pcs.



3. Environmental durability

 Surge 	testing
---------------------------	---------

-	-					
Model	100 to 120V AC	200 to 220V AC	12V DC	24V DC	48V DC	100 to 110V DC
Surge voltage	4,000V	4,000V	1,000V	1,000V	4,000V	4,000V

Applied voltage: Unipolar full-wave voltage of $\pm(1.2\times50)~\mu\text{s}$

No. of times applied: 5 times, continuously

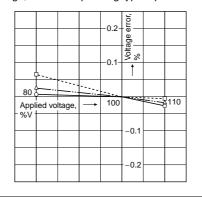
Locations at which voltage is applied: Between power supply terminals (between 13 and 14)

Results: No differences from withstand surge voltages listed above.

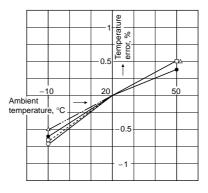
· Cold and heat testing

Conditions	Results
Left for 1 hour at high temperature of 80°C 176°F and low temperature of –25°C –13°F (25 times)	Appearance Operation Insulation performance —No irregularities

Voltage error test II (typical) 3 s range, 200V AC operating type 3 pcs.

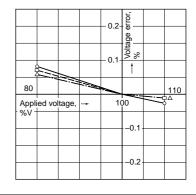


• Temperature error test II (typical) 3 s range, 200V AC operating type 4 pcs.

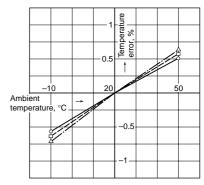


Voltage error test III (typical)

3 s range, 24V DC operating type 3 pcs.



• Temperature error test III (typical) 3 s range, 24V DC operating type 3 pcs.



Noise testing

Item	Noise generation	Results
Power line impulse noise	Noise simulator 1,000 V Rise: 1 ns Pulse width: 1 μs, 50 ns Repetition cycle: 10 ms Pulse polarity: Positive, negative Applied modes: Normal mode and Common mode	Not affected

Humidity testing

Conditions	Results
40°C 104°F, at relative humidity of 90 to 95%.	Appearance Operation Insulation performance —No irregularities

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 Scale intervals

 0.05

 (0.02 in a range of 0.1 to 0.5)

 0.05

 0.1

 0.2

 0.5

 1

 2

Scale intervals

Operation mode and color

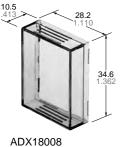
Operation type	Description	Time chart	Operation mode indicator color	Time type
Power ON-delay	Timing operation will start when the power is supplied, and the control output turns on after the setting time.	Power supply	Yellow	0.5 1 3 5
Power Ficker	When the power is supplied, the control output turns on after the setting time and then turns off after the setting time. This operation is repeated sequentially.	Power supply	Blue	10 30 60
Power One-shot	When the power is supplied, control output turns on for the setting time.	Power supply	Green	
Power One-cycle	When the power is supplied, the control output turns on for one pulse after the setting time.	Power supply	Red	

Note: Time unit labels are color coded so that you can distinguish the operation mode from the front panel.

Accessory (Unit: mm inch)

Mounting frame (for panel mounting type)





30 1.181 31.5 3.35 1.319 27.1

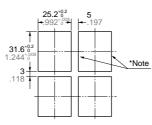
1.06

Cap block



ADX18011

Panel cutout dimensions



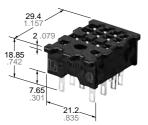
Board thickness 1 to 3 mm Note: Make sure the holes area stays as right angles.

• Cap for cap block



ADX18004

· Socket for cap block



ADX18003

Terminal socket
 HC2 slim DIN

terminal socket

82.5 3.248 3.406 HC2-SFD-S



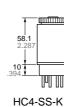
 HC4 DIN high terminal socket

82.5

HC4-SFD-K

86.5

HC4 socket



• HJ2 terminal socket







HJ4-SFD/HJ4-SFD-S

Socket leaf holding clip

ADX1	ADX18001		ADX18012			
Appearance	Dimensions	Appearance	Dimensions	Termi		
(2 pieces per set)	63.1 2:484	(2 pieces per set)	45 .177 61.6 2.425	For HC relay	HC2- HC2- HC4- HC2- HC4- HC2- HC4- HC2- HC4-	
AD68	8002	Socket lin	e holding clip		HJ2-	
Appearance	Dimensions	for S1DXM		relay	HJ4-	
(2 pieces per set)	63.8 2.512 4.5 .177	(Sold sepa	52.6 2.071	Notes:	_	

Туре		Application					
Terminal socket		ADX18001	ADX18012	AD68002	ADX28005	ADX18005	
	HC2-SFD-S*3	-	-	0	0	-	
	HC2-SFD-K*3	0	-	\triangle	0	-	
For	HC4-SFD-K*3	0	-	\triangle	0	-	
HC relay	HC2-SF-K	-	-	-	0	0	
	HC4-HSF-K	-	-	-	0	0	
	HC2-SS-K	-	-	-	0	0	
	HC4-SS-K	-	-	-	0	0	
	HJ2-SFD*3	-	0	-	-	-	
For HJ relay	HJ2-SFD-S*3	-	0	-	-	-	
	HJ4-SFD*3	-	Δ	-	-	-	
	HJ4-SFD-S*3	-	Δ	-	-	-	

lotes: The triangles indicate that removal will be slightly difficult when installed laterally in succession.

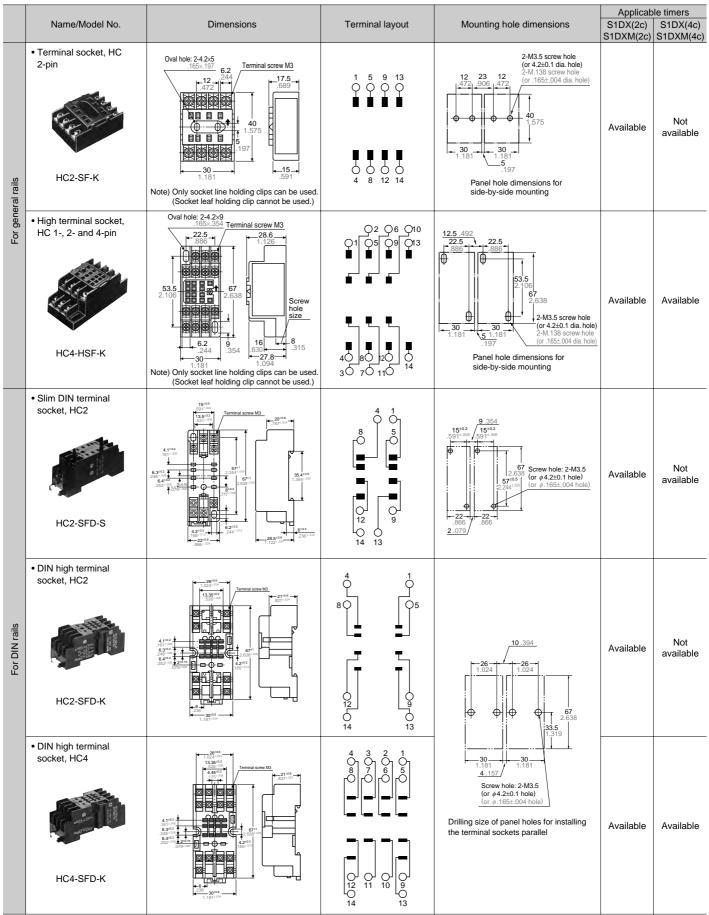
1. The socket line holding clip ADX18005 is enclosed in the S1DX timer.

): Available, -: Not available

The socket line holding clip (ADX28005) is not included with the S1DXM-A/M timer.

For use where there is a lot of vibration and shock, please use a compliant socket leaf holding clip or socket line holding clip.

HC relay terminal sockets



HJ relay terminal sockets

				Applicat	ole timers
Name/Model No.	Dimensions	Terminal layout	Mounting hole dimensions	S1DX(2c) S1DXM(2c)	S1DX(4c) S1DXM(4c)
• HJ2 terminal socket	2-M4.2×5 165×5 mounting holes	4 1 5 5 12 9 14 13	15 ⁴⁰² .591 ^{1.00}	Available	Not available
 HJ2 terminal socket (Finger protect type) Image: Application of the socket (Finger protect type) Image: Application of the socket HJ2-SFD-S 	2.M4.2x5.165x5 mounting holes		2-M3 .118 or M4 .157 or 4.5 .177 dia. hole	Available	Not available
• HJ4 terminal socket	2-M4 2×5 .165×5 mounting holes	3 2 1 8 7 6 5 7 6 5 1 1 10 9 4 14 13		Available	Available
 HJ4 terminal socket (Finger protect type) Image: Applied type <l< td=""><td>2-M4.2×5.165×5 mounting holes</td><td>3 2 1 8 7 6 5 9 10 0 9 12 11 10 9 4 14 13</td><td>2-M3 .118 or M4 .157 or 4.5 .177 dia. hole</td><td>Available</td><td>Available</td></l<>	2-M4.2×5.165×5 mounting holes	3 2 1 8 7 6 5 9 10 0 9 12 11 10 9 4 14 13	2-M3 .118 or M4 .157 or 4.5 .177 dia. hole	Available	Available

Name/Model No.	Dimensions	Mounting hole dimensions	S1DX(2c)	le timers S1DX(4c) S1DXM(4c)
• Socket, HC 2-pin	• The difference between the HC2 and HC4 sockets is only the number of the pins. Their appearances and sizes are the same.	 The thickness of applicable chassis plates ranges from 1.0 to 2.0 mm .039 to .079 inch. To install the socket easily, insert the socket top surface into the drilled holes and press the two points on the fastening plate indicated by arrows as shown in the fig. below. 	Available	Not available
HC2-SS-K	2.3 .093 16.55 .052 			
• Socket, HC 4-pin	Ceneral tolerance: $\pm 0.5 \pm .020$	25.8 1.016 25.8 1.016 21.6 5.9 The interval size between the sockets which are parallel installed. Dimensional tolerance of machining; ±0.1 ±.004	Available	Available

· Sockets for PC board

Sockets

HC2-Socket for PC board: HC2-PS-K

HC4-Socket for PC board: HC4-PS-K

PRECAUTIONS IN USING S1DXM-A/M AND S1DX

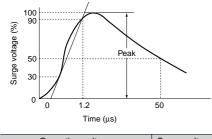
Reset periods

After unscheduled operations have been completed, or if the timer operation power supply has been turned off at any time during operation, a reset period of at least 0.1 seconds should be allowed before resuming operation.

External surge protection

External surge protection may be required if the following values are exceeded. Otherwise, the internal circuit will be damaged. The typical surge absorption elements include a varistor, a capacitor, and a diode. If a surge absorption element is used, use an oscilloscope to see whether or not the foreign surge exceeding the specified value appears.

Single-pole, full-wave voltage for surge waveform [\pm (1.2 \times 50) μ s]



Operation voltage	Surge voltage
100 to 120V AC, 200 to 220V AC	4,000V
12V DC, 24V DC	1,000V

Since the main body cover and knob are made of polycarbonate resin, prevent contact with organic solvents such as methyl alcohol, benzine and thinner, or strong alkali materials such as ammonia and caustic soda.

Terminal wiring

Make sure that terminals are wired carefully and correctly, referring to the terminal layout and wiring diagrams. Particularly, since the DC type has polarity, do not operate it with reverse polarity.

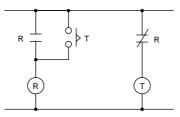
Applicable standard

Assembly

1) When installing, use a terminal socket or socket intended for HC/HJ relay. For adjacent installations, be sure to first verify the installation conditions of the terminal sockets or sockets you will be using.

2) Use the separately-sold dedicated socket leaf holding clip to secure terminal sockets and sockets to the timer unit. The conditions of use for dedicated socket leaf holding clip will differ depending on the terminal socket or socket you will be using. Therefore, please test under actual conditions before putting into operation. 3) If terminals are to be soldered directly, please hand solder with a 30 to 60 W solder iron with a tip temperature of 300°C for no more than 3 seconds. Automatic soldering should be avoided. 4) A flux-tight construction is not used with this timer, so be careful that flux or cleaning fluid does not get inside the case.

5) To assure that characteristics are maintained, do not remove the case. ■ Long Continuous Current Flow Long continuous current flow through the timer cause generation of heat internally, which degrade the electronic parts. Use the timer in combination with a relay and avoid long continuous current flow through the timer. (Refer to the circuit diagram below when using a safety circuit for continuous operation.)



Phase synchronization using AC load

If the turning on of the timer output relay is synchronized to the AC power supply phase, there may be times when the service life is shortened because of electrical factors, or when a locking phenomenon (defective relay return) occurs because of contact point welding or a shift in the contact relay. Check the operation using the actual timer.

Acquisition of CE marking

Please abide by the conditions below when using in applications that comply with EN61812-1.

1) Overvoltage category II, pollution degree 2 (2 Form C type) Overvoltage category II, pollution degree 4 (4 Form C type)

pollution degree 1 (4 Form C type) 2) The load connected to the output contact should have basic insulation. This timer is protected with basic insulation and can be double-insulated to meet EN/IEC requirements by using basic insulation on the load. 3) Please use a power supply that is protected by an overcurrent protection device which complies with the EN/IEC standard (example: 250 V 1 A fuse, etc.). 4) You must use a terminal socket or socket for the installation. Do not touch the terminals or other parts of the timer when it is powered. When installing or uninstalling, make sure that no voltage is being applied to any of the terminals. 5) Do not use this timer as a safety circuit. For example when using a timer in a heater circuit, etc., provide a protection circuit on the machine side.

Safety standard	EN61812-1	Pollution Degree 2/Overvoltage Category II (2 Form C type) Pollution Degree 1/Overvoltage Category II (4 Form C type)		
	(EMI)EN61000-6-4			
	Radiation interference electric field strength	EN55011 Group1 ClassA		
	Noise terminal voltage	EN55011 Group1 ClassA		
	(EMS)EN61000-6-2			
	Static discharge immunity	EN61000-4-2 4 kV contact		
		8 kV air		
	RF electromagnetic field immunity	EN61000-4-3 10 V/m AM modulation (80 MHz to 1 GHz)		
		10 V/m pulse modulation (895 MHz to 905 MHz)		
EMC	EFT/B immunity	EN61000-4-4 2 kV (power supply line)		
		1 kV (signal line)		
	Surge immunity	EN61000-4-5 1 kV (power supply line)		
	Conductivity noise immunity	EN61000-4-6 10 V/m AM modulation (0.15 MHz to 80 MHz)		
	Power frequency magnetic field immunity	EN61000-4-8 30 A/m (50 Hz)		
	Voltage dip/Instantaneous stop/Voltage fluctuation immunity	EN61000-4-11 10 ms, 30% (rated voltage)		
		100 ms, 60% (rated voltage)		
		1,000 ms, 60% (rated voltage)		
		5,000 ms, 95% (rated voltage)		

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PRECAUTIONS IN USING S1DXM-A/M AND S1DX

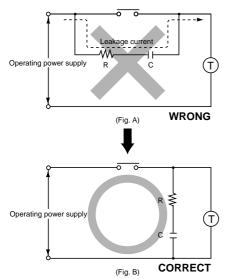
Others

1) When setting the time, the dial should be kept within the range indicated on the dial face. The "0" marking on the dial indicates the minimum time during which the control time can be varied (it does not indicate 0 seconds).

2) Do not rotate the knob past the stopper.

3) Turn off the power before changing the DIP switch settings. Changing the DIP switch with the power on can cause breakdown.

4) When connecting the operating power supply, make sure that no leakage current enters the timer. For example, when performing contact protection, if set up like that of fig. A, leaking current will pass through C and R, enter the timer, and cause incorrect operation. The fig. B shows the correct setup.



When a contact switch having an operation indicating lamp (lamp equipped limit switch, etc.) is used to apply power to the timer, a resistor having a value equal to or greater than the value below shall be connected in series with the lamp.

100 to 120V AC operating type: Min. $33k\Omega$

200 to 220V AC operating type: Min. $82k\Omega$

