

MULTI-RANGE ANALOG TIMER

Features

• Multiple functions built in

Part No. consolidation

(The lineup consists of 64 easy-tochoose models.)

Cadmium-free contacts used

• Economically priced

S1DXM-A/M



• Operation mode and time range switches are on front panel. (Operation mode switch on S1DXM-M series only.)

Time selectable Mode selectable IP40

Product types ■ S1DXM-A multi-range timer No MODE switch, Operation mode (fixed): Power ON-delay

Operating voltage	Time range	Timed-out 2 Form C	Timed-out 4 Form C
Operating voltage	rime range	Part No.	Part No.
	0.05 s to 10 min	S1DXM-A2C10M-DC12V	S1DXM-A4C10M-DC12V
12V DC	0.2 s to 30 min	S1DXM-A2C30M-DC12V	S1DXM-A4C30M-DC12V
120 DC	0.5 s to 60 min	S1DXM-A2C60M-DC12V	S1DXM-A4C60M-DC12V
	0.05 min to 10 hr	S1DXM-A2C10H-DC12V	S1DXM-A4C10H-DC12V
	0.05 s to 10 min	S1DXM-A2C10M-DC24V	S1DXM-A4C10M-DC24V
24V DC	0.2 s to 30 min	S1DXM-A2C30M-DC24V	S1DXM-A4C30M-DC24V
240 DC	0.5 s to 60 min	S1DXM-A2C60M-DC24V	S1DXM-A4C60M-DC24V
	0.05 min to 10 hr	S1DXM-A2C10H-DC24V	S1DXM-A4C10H-DC24V
	0.05 s to 10 min	S1DXM-A2C10M-AC24V	S1DXM-A4C10M-AC24V
24V AC *Note	0.2 s to 30 min	S1DXM-A2C30M-AC24V	S1DXM-A4C30M-AC24V
24V AC NOLE	0.5 s to 60 min	S1DXM-A2C60M-AC24V	S1DXM-A4C60M-AC24V
	0.05 min to 10 hr	S1DXM-A2C10H-AC24V	S1DXM-A4C10H-AC24V
	0.05 s to 10 min	S1DXM-A2C10M-AC120V	S1DXM-A4C10M-AC120V
100 to 120V AC	0.2 s to 30 min	S1DXM-A2C30M-AC120V	S1DXM-A4C30M-AC120V
100 10 120V AC	0.5 s to 60 min	S1DXM-A2C60M-AC120V	S1DXM-A4C60M-AC120V
	0.05 min to 10 hr	S1DXM-A2C10H-AC120V	S1DXM-A4C10H-AC120V
	0.05 s to 10 min	S1DXM-A2C10M-AC220V	S1DXM-A4C10M-AC220V
200 to 220V AC	0.2 s to 30 min	S1DXM-A2C30M-AC220V	S1DXM-A4C30M-AC220V
200 10 220V AC	0.5 s to 60 min	S1DXM-A2C60M-AC220V	S1DXM-A4C60M-AC220V
	0.05 min to 10 hr	S1DXM-A2C10H-AC220V	S1DXM-A4C10H-AC220V
	0.05 s to 10 min	S1DXM-A2C10M-AC240V	S1DXM-A4C10M-AC240V
220 to 240V AC *Note	0.2 s to 30 min	S1DXM-A2C30M-AC240V	S1DXM-A4C30M-AC240V
220 10 240 V AC NOIE	0.5 s to 60 min	S1DXM-A2C60M-AC240V	S1DXM-A4C60M-AC240V
	0.05 min to 10 hr	S1DXM-A2C10H-AC240V	S1DXM-A4C10H-AC240V

Note: 48 V DC, 100 to 110 V DC, 24 V AC and 220 to 240 V AC types are made to order. Please inquire for details. A socket line holding clip (ADX28005) is not included with the product. Please purchase separately.

S1DXM-M multi-range timer

With MODE switch, Operation mode (switchable): Power ON-delay, Power Flicker OFF start, Power Flicker ON start, Power One-shot

	Time renge	Timed-out 2 Form C	Timed-out 4 Form C
Operating voltage	Time range	Part No.	Part No.
	0.05 s to 10 min	S1DXM-M2C10M-DC12V	S1DXM-M4C10M-DC12V
12V DC	0.2 s to 30 min	S1DXM-M2C30M-DC12V	S1DXM-M4C30M-DC12V
	0.5 s to 60 min	S1DXM-M2C60M-DC12V	S1DXM-M4C60M-DC12V
	0.05 min to 10 hr	S1DXM-M2C10H-DC12V	S1DXM-M4C10H-DC12V
	0.05 s to 10 min	S1DXM-M2C10M-DC24V	S1DXM-M4C10M-DC24V
24V DC	0.2 s to 30 min	S1DXM-M2C30M-DC24V	S1DXM-M4C30M-DC24V
24V DC	0.5 s to 60 min	S1DXM-M2C60M-DC24V	S1DXM-M4C60M-DC24V
	0.05 min to 10 hr	S1DXM-M2C10H-DC24V	S1DXM-M4C10H-DC24V
	0.05 s to 10 min	S1DXM-M2C10M-AC24V	S1DXM-M4C10M-AC24V
24V AC *Note	0.2 s to 30 min	S1DXM-M2C30M-AC24V	S1DXM-M4C30M-AC24V
24V AC Note	0.5 s to 60 min	S1DXM-M2C60M-AC24V	S1DXM-M4C60M-AC24V
	0.05 min to 10 hr	S1DXM-M2C10H-AC24V	S1DXM-M4C10H-AC24V
	0.05 s to 10 min	S1DXM-M2C10M-AC120V	S1DXM-M4C10M-AC120V
100 to 120V AC	0.2 s to 30 min	S1DXM-M2C30M-AC120V	S1DXM-M4C30M-AC120V
100 10 120V AC	0.5 s to 60 min	S1DXM-M2C60M-AC120V	S1DXM-M4C60M-AC120V
	0.05 min to 10 hr	S1DXM-M2C10H-AC120V	S1DXM-M4C10H-AC120V
	0.05 s to 10 min	S1DXM-M2C10M-AC220V	S1DXM-M4C10M-AC220V
200 to 220V AC	0.2 s to 30 min	S1DXM-M2C30M-AC220V	S1DXM-M4C30M-AC220V
200 10 220V AC	0.5 s to 60 min	S1DXM-M2C60M-AC220V	S1DXM-M4C60M-AC220V
	0.05 min to 10 hr	S1DXM-M2C10H-AC220V	S1DXM-M4C10H-AC220V
	0.05 s to 10 min	S1DXM-M2C10M-AC240V	S1DXM-M4C10M-AC240V
220 to 240V AC *Note	0.2 s to 30 min	S1DXM-M2C30M-AC240V	S1DXM-M4C30M-AC240V
220 10 240 V AC NOLE	0.5 s to 60 min	S1DXM-M2C60M-AC240V	S1DXM-M4C60M-AC240V
	0.05 min to 10 hr	S1DXM-M2C10H-AC240V	S1DXM-M4C10H-AC240V

Note: 48 V DC, 100 to 110 V DC, 24 V AC and 220 to 240 V AC types are made to order. Please inquire for details. A socket line holding clip (ADX28005) is not included with the product. Please purchase separately.

Specifications

	Item		Specifications						
	Rated operatir	ng voltage	24VAC	100 to 120VAC	200 to 220VAC	220 to 240VAC	12VDC	24VDC	
	Rated frequen	су		50/60Hz	common		-	_	
	Rated power		Max. 3 VA (at 24 VAC)	Max. 3 VA (at 100 VAC)	Max. 3 VA (at 200 VAC)	Max. 3 VA (at 220 VAC)	Max. 2 W (at 12 VDC)	Max. 2 W (at 24 VDC)	
	consumption	During time delay	Approx. 3mA	Approx. 3mA	Approx. 3mA	Approx. 3mA	Approx. 5mA	Approx. 3mA	
		After time delay	Approx. 80mA	Approx. 20mA	Approx. 13mA	Approx. 13mA	Approx. 70mA	Approx. 40mA	
Rating	Dete deserted			Time	ed -out 2 Form C: 7A	250V AC (resistive	load)		
Ũ	Rated control	capacity		Time	ed -out 4 Form C: 5A	250V AC (resistive	load)		
	Operation mod	de	S1DXM-A Power on delay operation fixed (Power display: ON/green; Operation display (when output is on): UP/orange) S1DXM-M 4 switchable operations: Power ON-delay/Power Flicker OFF start/Power Flicker ON start/Power One-shot (Power display: ON/green; Operation display (when output is on): UP/orange)						
	Operating time Power off time		Within ±1	%, (power off time	change at the range	of 0.1 s to 1 h), 1 s r	ange: Max. ±1% and	l 10 ms*2	
Time accuracy*1	Voltage error		Within ±1%	(at the operating vo	Itage changes betwe	een -20 to +10%), 1	s range: Max. ±1% a	and 10 ms*2	
accuracy ·	Temperature e	rror	Wi	thin ±5% (at 20°C 6	8°F ambient temp. a	t the range of -10 to	+50°C +14 to +122°	°F)	
	Setting error		Within ±10%, 1 s range: Max. ±10% and 20 ms						
	Contact arrang	gement	Timed-out 2 Form C, Timed-out 4 Form C						
Contact	Contact resista	ance (Initial value)	Max. 100mΩ (at 1A, 6V DC)						
oomaat	Contact mater	ial	Timed-out 2 Form C type: Silver alloy, Au plating						
	Contact mater		Timed-out 4 Form C type: Silver alloy, Au plating						
Life	Mechanical (co	,	Min. 10 ⁷						
	Electrical (con	stant)	2×10 ⁵ (at rated control capacity)						
	Vibration	Functional	10 to 55Hz: 1 cycle/min single amplitude of 0.25mm (10min on 3 axes)						
Mechanical	resistance	Destructive	10 to 55Hz: 1 cycle/min single amplitude of 0.375mm (1h on 3 axes)						
	Shock	Functional	Min. 98m/s ² (4 times on 3 axes)						
	resistance	Destructive							
		rating voltage range	19.2 to 26.4 V DC	80 to 132 V AC	160 to 242 V AC	176 to 264 V AC	9.6 to 13.2 V DC	19.2 to 26.4 V DC	
	Reset time					. 0.1s			
	Insulation resis	stance (Initial value)	Between live and dead metal parts, between input and output, between contact sets, between contacts Min. 100 M Ω (at 500 V DC megger)					en contacts	
Electrical	Breakdown vo	ltage (Initial value)	Between live and dead metal parts: 2,000 Vrms for 1 min Between input and output: 2,000 Vrms for 1 min Between contact sets: 2,000 Vrms for 1 min Between contacts: 1,000 Vrms for 1 min						
	Temperature r	ise	Max. 70°C 158°F						
	Ambient temp	erature			-10 to 50°C	+14 to 122°F			
	Ambient humi	dity			30 to 85% RH (I	non-condensing)			
Operating	Air pressure				860 to 1	060 hPa			
conditions	Ripple factor			DC type only, tra	nsmission wave rect	ification (ripple facto	r: approx. 48%)*3		
	Mass (Weight)				Appro	x. 45 g			
	Protective con	struction		IEC standard	d: IP40 (IP50 when u	ising ADX18008 prot	tective cover)		

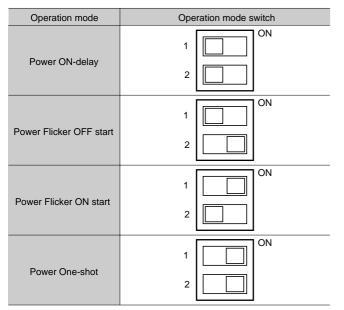
Notes: *1. Unspecified measuring conditions are rated operating voltage (in case of DC type, ripple rate of 5% or less), ambient temp. 20°C 68°F, and power off time 1 second. *2. Power one-shot 1 s range: +2% and 10 ms *3. When using with a transmission wave rectification, vibration resistance and shock resistance properties worsen compared to when using a stabilized power supply.

Time range setting

Туре		Time	scale	Time	e unit	Min. scale	Max. scale	le Setting range												
	10M type			s	m	0.05	1	0.05 to 1s	0.5 to 10s	0.05 to 1m	0.5 to 10m									
S1DXM-A	30M type	X1	X10	S	m	0.2	3	0.2 to 3s	2 to 30s	0.2 to 3m	2 to 30m									
STDAW-A	60M type				×10	S	m	0.5	6	0.5 to 6s	5 to 60s	0.5 to 6m	5 to 60m							
	10H type			m	h	0.05	1	0.05 to 1m	0.5 to 10m	0.05 to 1h	0.5 to 10h									
	10M type	X1	× X1	VI	×1								s	m	0.05	1	0.05 to 1s	0.5 to 10s	0.05 to 1m	0.5 to 10m
S1DXM-M	30M type					X10	S	m	0.2	3	0.2 to 3s	2 to 30s	0.2 to 3m	2 to 30m						
STDAIVI-IVI	60M type			×10	S	m	0.5	6	0.5 to 6s	5 to 60s	0.5 to 6m	5 to 60m								
	10H type			m	h	0.05	1	0.05 to 1m	0.5 to 10m	0.05 to 1h	0.5 to 10h									

Note: The time setting range is the combination of the time scale (X1 or X10) on the dial and the time unit (s, m, or h). Example: When dial reads 1, time scale is X1 and time units is seconds, then it is 1 second.

Operation mode and Time range setting

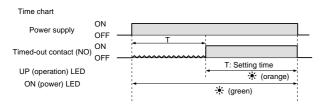




S1DXM-A multi-range timer

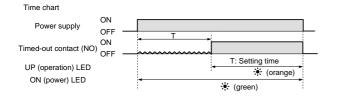
Power ON-delay operation

• When power is turned on, the output contact operates after the set time. The output contact remains on until the power is turned off.



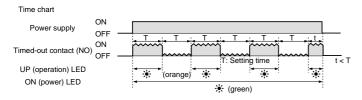
■ S1DXM-M multi-range timer Power ON-delay operation [MODE] switch 1: OFF, switch 2: OFF

• When power is turned on, the output contact operates after the set time. The output contact remains on until the power is turned off.



Power Flicker ON start operation [MODE] switch 1: ON, switch 2: OFF

• When power is turned on, the output contact operates repeatedly at the set time. The output contact outputs at the same time power turns on.



Power Flicker OFF start operation [MODE] switch 1: OFF, switch 2: ON

Time range switch

The time setting can be switched among 4 ranges each for 4 types for an interval between

range and operation mode.

m

(h)

X10

Notes: 1. The product is factory shipped with all settings on the OFF side (left). 2. Do not operate the switches with a sharp-edged object such as a knife

3. The power must be turned off when setting the time range or operation

mode. Operating the switches with the power on is a cause of breakdown

4. Use a force of under 5 N to operate the DIP switches when setting the time

S

(m)

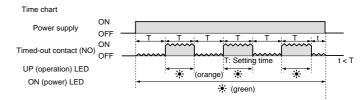
X1

0.05 seconds and 10 hours.

and malfunction.

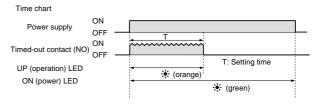
blade.

• When the power is turned on, the output contacts repeatedly operate at the set time. The output contact begins from the off state.

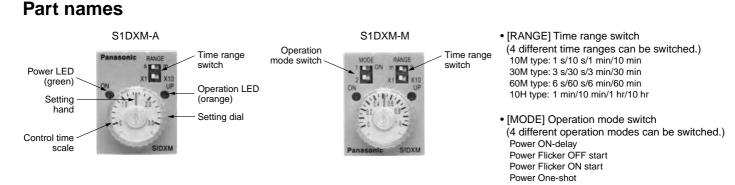


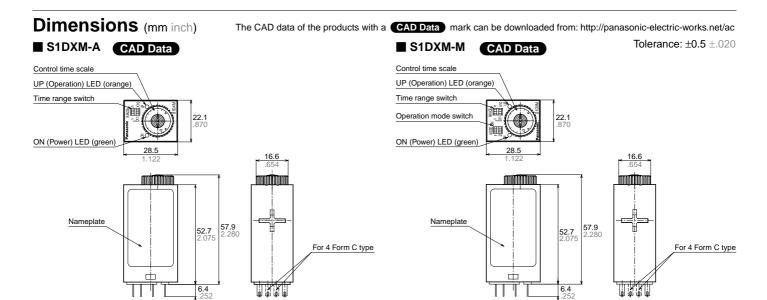
Power One-shot operation [MODE] switch 1: ON, switch 2: ON

When power is turned on, the output contact performs the on operation at the same time power turns on, only for the set time.

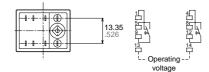


* When the power is repeatedly turned on and off, the UP (Operation) LED may light up briefly when power is applied. This is not a malfunction.

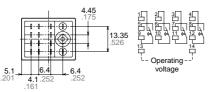




Terminal layouts and Wiring diagram Timed-out 2 Form C type



Timed-out 4 Form C type



* For the DC operating type, terminal 14 is "+" and terminal 13 is "-".

Note: Please also refer to "PRECAUTIONS IN USING S1DXM-A/M AND S1DX" on page 68.

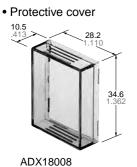
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Accessory (Unit: mm inch)

Mounting frame (for panel mounting type)



ADX18002 (Titanium-gray) ADX18006 (Gray) ADX18007 (Black)



30 3. 118 1 33.5 27.1

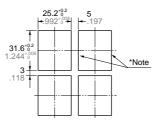
1.06

· Cap block



ADX18011

Panel cutout dimensions



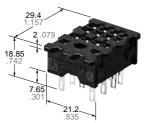
Board thickness 1 to 3 mm Note: Make sure the holes area stays as right angles.

· Cap for cap block



ADX18004

Socket for cap block



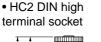
ADX18003

Terminal socket • HC2 slim DIN

terminal socket







HC2-SFD-K

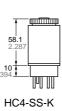


82.5

HC4-SFD-K

86.5

HC4 socket



 HJ2 terminal socket 1000 M 86.0 88.0

HJ2-SFD/HJ2-SFD-S



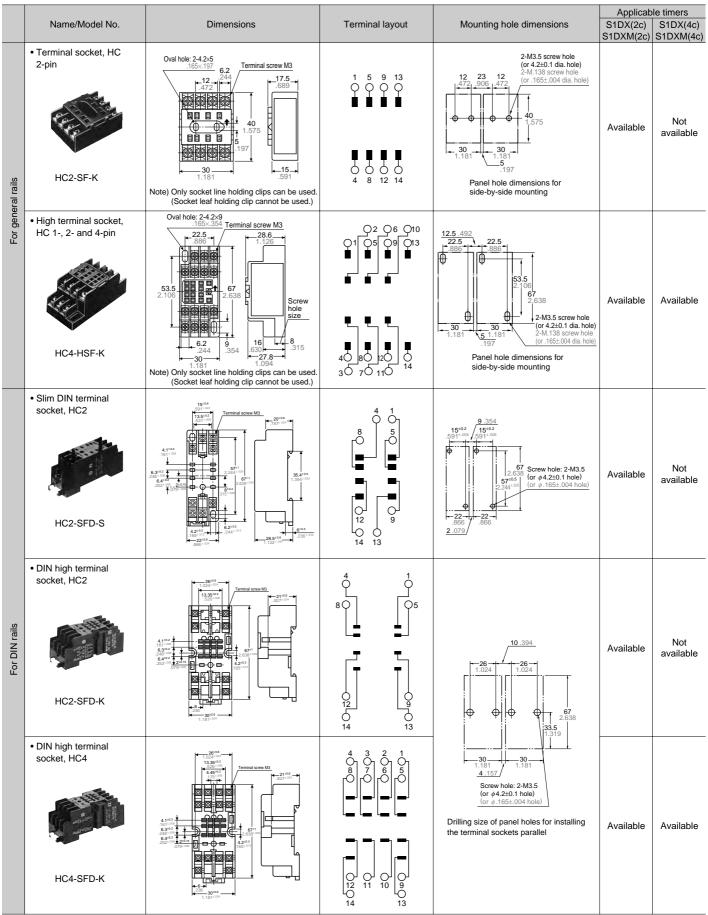
88.0 HJ4-SFD/HJ4-SFD-S

Socket leaf holding clip

A	DX18001	ADX18012			Туре			Application			
Appearance		Appearance	Dimensions	Termir socket		ADX18001	ADX18012	AD68002	ADX28005	ADX18005	
	4.5 .177 • + + •		4.5		HC2-SFD-S*3	-	-	0	0	-	
4 4		4 4			HC2-SFD-K*3	0	-	Δ	0	-	
				For	HC4-SFD-K*3	0	-	Δ	0	-	
	63.1			HC	HC2-SF-K	-	-	-	0	0	
	2.484		61.6 2.425	relay	HC4-HSF-K	-	-	-	0	0	
					HC2-SS-K	-	-	-	0	0	
						HC4-SS-K	-	-	-	0	0
(2 pieces per s	et)	(2 pieces per set)	1	_	HJ2-SFD*3	-	0	-	-	_	
A	D68002	Socket lin	Socket line holding clip	For HJ	HJ2-SFD-S*3	-	0	-	-	-	
Appearance	Dimensions	for S1DXM-A/M	relay	HJ4-SFD*3	-	Δ	-	-	_		
		(Sold separately) $\frac{1}{7.5}$			HJ4-SFD-S*3	-	\triangle	-	-	-	
(2 pieces per s	et)				The triangles ind succession. *1. The socket I : Available, -: *2. The socket -: timer. *3. For use whe socket leaf h	ine holding cl Not available ine holding cl re there is a l	ip ADX18005 ip (ADX28005	is enclosed in i) is not includ and shock, p	n the S1DX tii ded with the S	mer. S1DXM-A/M	

ADX28005

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:M4:2x5:165x5 mounting holes		15 ⁵⁰² .591 ^{±.00} .59 ^{±.03} 2.59 ^{±03} 2.323 ^{±.02}	Available	Not available
 HJ2 terminal socket (Finger protect type) 	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 9 9 9 9 12 11 10 9 4 14 13	- <u>22¹⁰²</u> - <u>.866².008 - - 59^{±03}</u>	Available	Available
 HJ4 terminal socket (Finger protect type) Image: Applied Content of the socket of the so	2-M4.2×5.165×5 mounting holes	3 2 1 8 7 6 5 7 6 5 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 .01 1.004 .01 1.004 .004			
• Socket, HC 4-pin	General tolerance: $\pm 0.5 \pm .020$	25.8 1.016 25.8 1.016 25.8 1.016 25.9 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

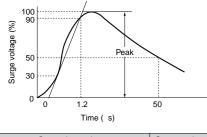
Reset periods

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 50) 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.

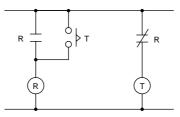
Applicable standard

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 Noise terminal voltage	EN55011 Group1 ClassA EN55011 Group1 ClassA				
	(EMS)EN61000-6-2 Static discharge immunity	EN61000-4-2 4 kV contact				
	RF electromagnetic field immunity	8 kV air EN61000-4-3 10 V/m AM modulation (80 MHz to 1 GHz)				
EMC	EFT/B immunity	10 V/m pulse modulation (895 MHz to 905 MHz) EN61000-4-4 2 kV (power supply line)				
	Surge immunity	1 kV (signal line) EN61000-4-5 1 kV (power supply line)				
	Conductivity noise immunity Power frequency magnetic field immunity	EN61000-4-6 10 V/m AM modulation (0.15 MHz to 80 MHz) 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)				

PRECAUTIONS IN USING S1DXM-A/M AND S1DX

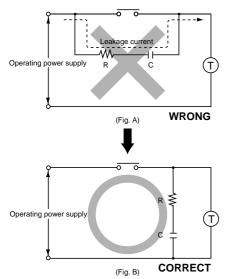
Others

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. $82k\Omega$

