

Smart Meter Division

CTN4 Intelligent Temperature Controller	D01-04
CLN4 Intelligent Temperature Controller	D05-08
CME4 Modular Temperature Control Instrument	D09-12
CTI Current Monitoring Module	D13-14
CDH Timer Relay	D15-18
CH6M/S Timing Counter	D19-22
CDT6-A/B Single-Function Time Relay	D23-28
CDT6-M Multifunctional Time Relay	D26-29
CDT6-EC Double Functional Time Relay	D30-32
CDT6-K Digital Set Time Relay	D33-38
CDT6-X Digital Display Time Relay	D36-38
CDT6-2T Dual Delay Type Time Relay	D39-4
CDT6-S Cycle Delay Type Time Relay	D42-44
CDT6-P Delay Pulse Type Time Relay	D45-47
CDT6-ST Star-Delta Relay Time Relay	D48-50
CDT6-LS Corridor Delay Switch	D51-50
CDA6 AC Current Monitoring Relay	D54-56
CDA6-516 Current Monitoring Relay (Through core type)	D57-59
CDB6 Sensitivity Adjustable Light Control Switch	D60-62
CDE6 Temperature and Humidity Controller	D63-64
CDV6 Single-Phase Voltage Monitoring Relay	D65-67
CDV6 Three-Phase Voltage Monitoring Relay	D68-70
CDV6 Three-Phase Voltage Monitoring Relay (2 Sets Of Outputs)	D71-73
CDL6 Water Level Relay	D74-76
CDM6 Electronic Pulse Relay	D77-79
CDW6 Temperature Control Relay	D80-82
CDR6 Modular Intermediate Relay	D83-84











CTN4 Intelligent Temperature Controller

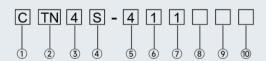




Features

- High-speed sampling
- Al artificial intelligence adjustment algorithm
- Dual PID heating and cooling intelligent adjustment
- AT automatic calculation function
- ■16-bit MCU high-speed operation accuracy
- Dual digital display (PV / SV)
- High-speed sampling rate of 100ms and display accuracy of 0.5%
- SSR Drive output / Relay output / Current output optional
- Terminal type wiring method conducive to wiring and maintenance

Model number structure



Item	Code	Description		
① Name of the company	С	CNTD		
	TE	Economical digital dual display PID temperature controller		
② Series	TN	Standard digital dual display PID temperature controller		
	TZ	High precision digital dual display PID temperature controller		
③ Digit	4	9999 (4 Digit)		
	S	48×48		
	٧	48×96		
④ Dimensions	М	72×72		
Dimensions	L	96×96		
Н		96×48		
	2	24VAC 50/60Hz, 24-48VDC		
⑤ Voltage supply	4	Switch power supply(100-240V AC, 50HZ)		
Supply	A-Z	Custom power supply voltage		
	1	Relay		
	2	SSR Output		
⑥ Control	3 □	Analog output: A: 0~20mA, 4-20mA, B: 0-5V, 1-5V		
	4	Thyristor zero-crossing output		
output	5	Silicon controlled rectifier (5A)		
	6	SSR+Relay output		
	A-Z	A-Z letter combination represents other or custom control output modes		

Item	Code	Description
	1	1-Way relay
	2	2-Way relay
⑦ Alarm output	3	1-way SSR
	4	2-way SSR
	A-Z	A-Z letter combination represents other or custom control output modes
8	None	Thermocouple input K, E, J, L, T, R, S Thermal resistance input PT100, Cu50 (full function)
Graduation	A-Z	A-Z letter combination, representing other or customized alarm output
Transmission	None	No such function
output	Т	With transmission output function
⑩ Special	None	No such function
specifications	R	With RS485 communication function

Note 1: Analog output and transmission output cannot be selected at the same time;

Note 2: Due to the limited number of 48 * 48 ports, the model selection cannot be fully met. Please contact the manufacturer if necessary; Note 3: For 48x48 size, if 485 communication is required in the control output option, only 1/2/3 can be selected, not choose 6.

CTN4 Intelligent Temperature Controller



Electrical specification

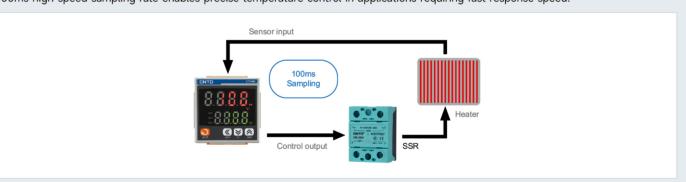
Rated voltage	100-240V AC, 50HZ	
Power consumption	≤ 5VA	
Rated voltage	Installation type II, Pollution degree 2	
Storage Temperature	-25°C -65°C (Avoid freezing)	
Esolution power	°C , 0.1°C (Adjustable)	
Wiring method	Connecting terminal	
Measuring accuracy	±0. 5%FS	
Memory Protection	Non-volatile memory	
Installation conditions	Installation type II, Pollution degree 2	
Relay output	Relay contact: AC220V/DC30V,3A	
Logic level output	On: DC24V; Off: dc0 Below 5V; Maximum current: 30mA, load resistance ≥ 1K	

Overall dimension

Model		Shell size (length, width and height)	Hole size
CTN4S	48x48	48x48x71	45x45
CTN4V	48x96	48x96x71	46x92
CTN4H	96x48	96x48x71	91x45
CTN4M	72×72	72x72x71	68x68
CTN4L	96x96	96x96x71	92x92

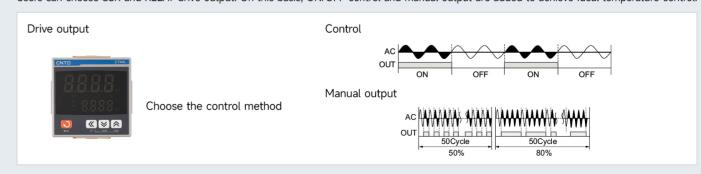
High speed sampling

100ms high-speed sampling rate enables precise temperature control in applications requiring fast response speed.



SSR drive output method

Users can choose SSR and RELAY drive output. On this basis, ON/OFF control and manual output are added to achieve ideal temperature control.



CTN4 Intelligent Temperature Controller



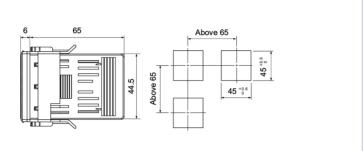
CTN4 Intelligent Temperature Controller

CNTD

Appearance and dimension

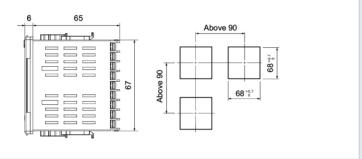






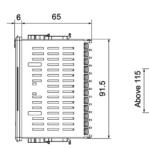
CTN4M 72×72mm

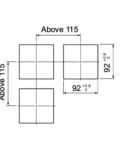




CTN4L 96×96mm

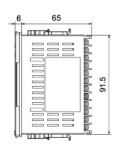


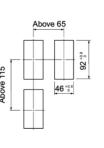




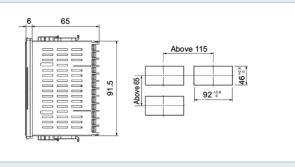




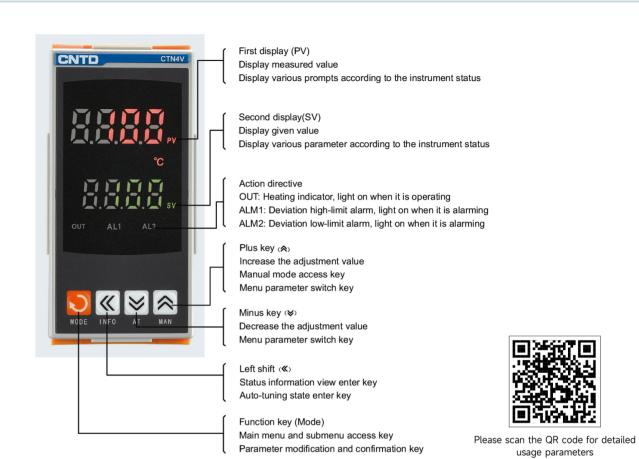








Operating interface



Application scenario







Ceramic machinery



Rubber Machinery







Injection molding machine



Food Machinery

D03 www.cntd.com

CLN4 Intelligent Temperature Controller

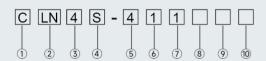




Features

- High-speed sampling
- Al artificial intelligence adjustment algorithm
- Dual PID heating and cooling intelligent adjustment
- AT automatic calculation function
- ■16-bit MCU high-speed operation accuracy
- Dual digital display (PV / SV)
- High-speed sampling rate of 100ms and display accuracy of 0.35%
- SSR Drive output / Relay output / Current output optional
- ■Terminal type wiring method conducive to wiring and maintenance

Model number structure



Item	Code	Description		
① Name of the company	С	CNTD		
② Series	LN	Standard LCD dual display PID temperature controller		
③ Digit	4	9999 (4 Digit)		
	S	48×48		
4	V	48×96		
Dimensions	М	72×72		
L		96×96		
_	2	24VAC 50/60Hz, 24-48VDC		
Voltage 4 supply A-Z		Switch power supply(100-240V AC, 50HZ)		
		Custom power supply voltage		
	1	Relay		
	2	SSR Output		
6)	3 🗆	Analog output: A: 0~20mA, 4-20mA, B: 0-5V, 1-5V		
Control output	4	Thyristor zero-crossing output		
	5	Silicon controlled rectifier (5A)		
	6	SSR+Relay output		
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Item	Code	Description
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Graduation	A-Z	A-Z letter combination, representing other or customized alarm output
Transmission	None	No such function
output	Т	With transmission output function
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specifications	R	With RS485 communication function

Note 1: Analog output and transmission output cannot be selected at the

Note 2: Due to the limited number of 48 * 48 ports, the model selection cannot be fully met. Please contact the manufacturer if necessary; Note 3: For 48x48 size, if 485 communication is required in the control output option, only 1/2/3 can be selected, not choose 6.

CLN4 Intelligent Temperature Controller



Electrical specification

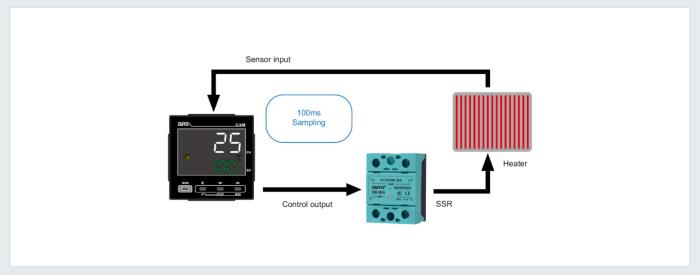
Rated voltage	100-240V AC, 50HZ	
Power consumption	s 5VA	
Rated voltage	Installation type II, Pollution degree 2	
Storage Temperature	-25°C -65°C (Avoid freezing)	
Esolution power	°C , 0.1°C (Adjustable)	
Wiring method	Connecting terminal	
Measuring accuracy	±0.35%FS	
Memory Protection	Non-volatile memory	
Installation conditions	Installation type II, Pollution degree 2	
Relay output	Relay contact: AC220V/DC30V,3A	
Logic level output	On: DC24V; Off: dc0 Below 5V; Maximum current: 30mA, load resistance ≥ 1K	

Overall dimension

Model		Shell size (length, width and height)	Hole size
CLN4S	48x48	48x48x71	45x45
CLN4V	48x96	48x96x71	46x92
CLN4M	72x72	72x72x71	68x68
CLN4L	96x96	96x96x71	92x92

High speed sampling

100ms high-speed sampling rate enables precise temperature control in applications requiring fast response speed.



D05 www.cntd.com www.cntd.com D06

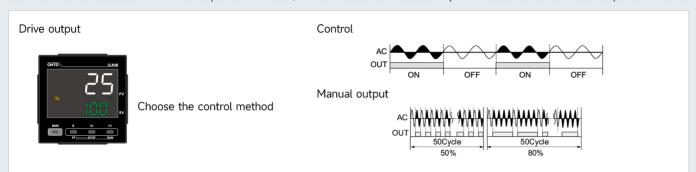
CLN4 Intelligent Temperature Controller



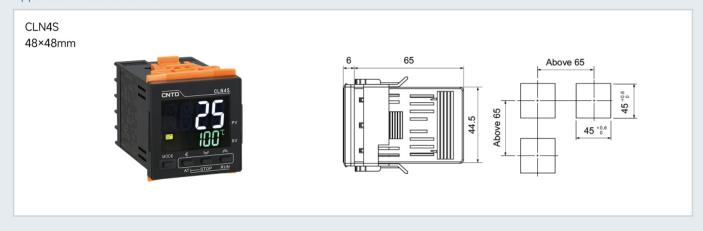
CNTD

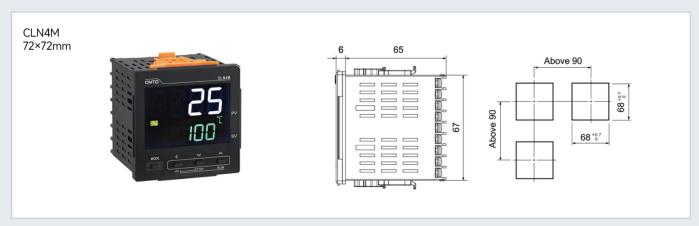
SSR drive output method

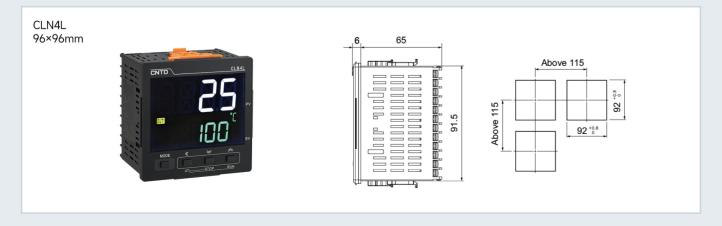
Users can choose SSR and RELAY drive output. On this basis, ON/OFF control and manual output are added to achieve ideal temperature control.



Appearance and dimension

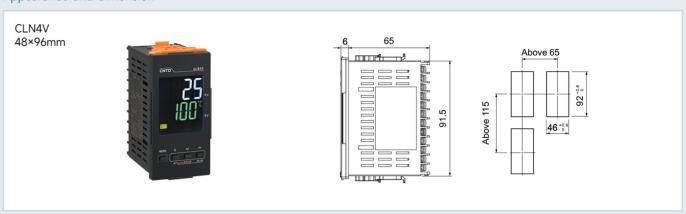




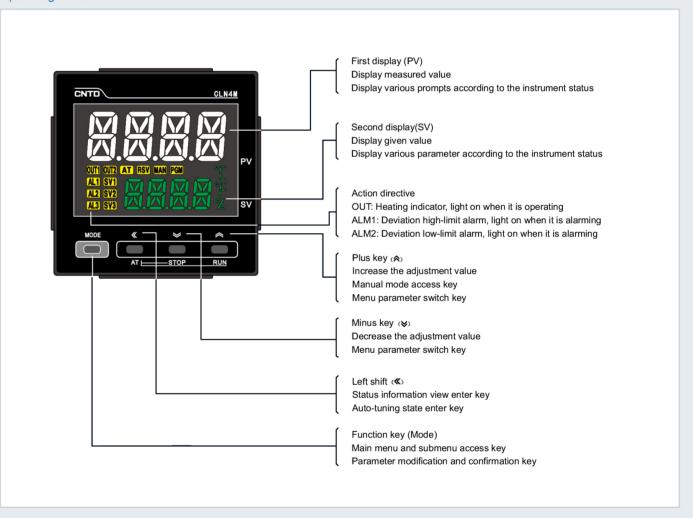


Appearance and dimension

CLN4 Intelligent Temperature Controller



Operating interface



D07 www.cntd.com D08

CME4 Modular Temperature Control Instrument

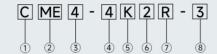




Overview

■ The modular temperature control instrument is a special equipment for heating and cooling control launched by our company. It has the function of controlling multiple heating channels separately, and has the characteristics of high integration, accurate temperature control, compact size, and easy installation. It is widely used in packaging machinery, hot runner, production line and other occasions where temperature heating control is required.

Product selection



Features

- With multi-channel temperature control function, one module is equivalent to multiple temperature control meters, and the temperature control parameters of each channel are independent and do not affect each other.;
- Multi-channel intelligent temperature control algorithm, can achieve 4-channel accurate PID temperature control, can be widely used in a variety of heating models;
- With RS485 communication interface, standard modbus RTU communication protocol, easy to communicate with PLC or configuration screen, online monitoring of temperature data, real-time control by the host equipment;
- Modular structure design, optional multi-module splicing method, multiple temperature control modules are spliced through the side quick socket to achieve the effect of doubling the number of channels, multiple 4-channel modules can be spliced into 8-channel, 16-channel and more temperature control channels;
- The product has a high degree of integration and compact size. The rail-type installation method is suitable for installation places such as on-site control cabinets and power distribution cabinets.:

<u> </u>		
① Company name	С	CNTD
2	ME	Standard modular thermostat
Series	МН	High-precision modular thermostat
	1	Single channel
(3)	2	Dual channel
Number of	4	Four channels
channels	8	Eight channels
	12	Twelve channels
4	2	24V AC 50/60Hz, 18-32VDC
Power supply voltage	4	100-240V AC, 50/60Hz
	K	Thermocouple (K, E, J, L, T, R, S)
5 Temperature input	Р	Thermal resistance input (PT100, Cu50)
	Α	4-20mA input
	1	Relay
	2	SSR output
6	Α	0-20mA、4-20mA
Control output	В	0-5V、1-5V
	A-Z	A-Z letter combination represents other or custom control output modes
7	N	No communication output
Communication	R	RS485 communication
0	None	No quick connection
8 Combination	1	Quick connect input on the left
quick connection	2	Quick connect output on the right
interface	3	Left and right quick connection input and output

CME4 Modular Temperature Control Instrument

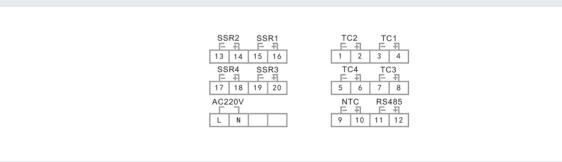


Technical parameters

Rated voltage	100-240V AC, 50Hz
Power consumption	≤5VA
Working environment	Ambient temperature: 0°C -50°C Relative humidity: 35%-85% (no condensation)
Storage temperature	-25°C -65°C (avoid freezing or condensation)
Resolution	1°C , 0.1°C (adjustable)
Wiring method	Terminal block
Detection accuracy	±0.5%FS
Memory protection	Non-volatile memory
Relay output (If the control output is a relay)	Relay contact AC220V/DC30V, 3A
Relay logic level output (If the control output is SSR)	When ON: DC12V; when OFF: below DC0.5V; Maximum current: 30mA
Thermocouple input type	K, E, J, L, T, R, S
Thermal resistance input type	PT100、Cu50

Wiring

Please refer to the wiring diagram on the side of the modular thermostat for the wiring method. The following is the explanation of the terms on the wiring diagram.:



L. N	Thermostat AC220V power supply input interface, can not be divided into zero line, firewire
NTC	External cold terminal detection, can be connected to the included cold terminal resistor, the port does not distinguish between positive and negative. If the external cold terminal resistor is not connected, the internal cold terminal is automatically used
RS485	485 communication interface, you need to distinguish between positive and negative electrodes, A+, B-
TC1	The thermocouple input signal of channel 1, the positive and negative electrodes need to be distinguished
SSR1	The solid-state drive signal output of channel 1, the positive and negative electrodes need to be distinguished
AIN1	The analog input of channel 1, the default is 4-20mA signal, the positive and negative electrodes need to be distinguished
AOUT1	The analog output of channel 1, the default is 4-20mA signal, the positive and negative electrodes need to be distinguished

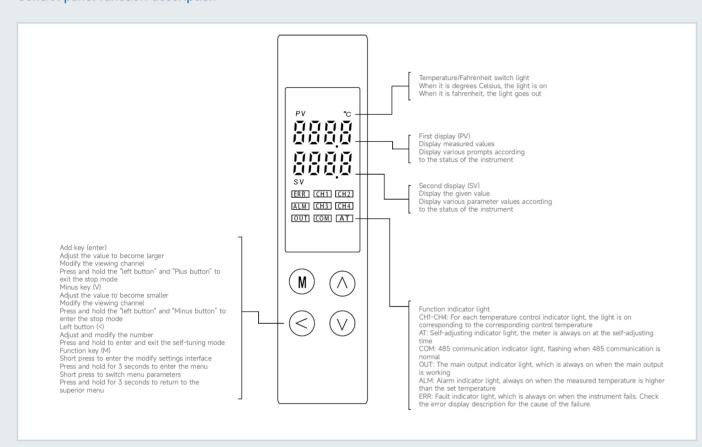
Note: TC1 is a channel 1 thermocouple, TC2 is a channel 2 thermocouple, and so on. SSR, AIN, and AOUT also follow this rule.

D09 www.cntd.com D10

CME4 Modular Temperature Control Instrument



Control panel function description



ALM alarm parameter definition

Alarm code	Alarm form	Description
0	No alarm	No alarm output
1	Absolute upper limit alarm	Alarm when PV>ALUP
2	Alarm at the lower absolute value	Alarm when PV <aldn< td=""></aldn<>
3	Deviation upper limit alarm	Alarm when PV>SV+ALUP
4	Alarm of the lower deviation limit	Alarm when PV <sv-aldn< td=""></sv-aldn<>
5	Alarm within the absolute value range	Alarm when PV <alup>PV>ALDN</alup>
6	Alarm outside the absolute value range	Alarm when PV>ALUP or PV <aldn< td=""></aldn<>
7	Alarm within the deviation range	Alarm when PV <sv+alup and="" pv="" when="">SV-ALDN</sv+alup>
8	Alarm outside the deviation range	Alarm when PV>SV+ALUP or when PV <sv-aldn< td=""></sv-aldn<>
9	Absolute upper limit alarm (hold)	Alarm when PV>ALUP
10	Alarm at the lower absolute value (hold)	Alarm when PV <aldn< td=""></aldn<>
11	Deviation upper limit alarm (hold)	Alarm when PV>SV+ALUP
12	Alarm of the lower limit of deviation (hold)	Alarm when PV <sv-aldn< td=""></sv-aldn<>

Note: "Hold" means power-on and power-on alarm elimination: If the thermostat is in an alarm state as soon as it is turned on, the alarm will not be carried out. The temperature control must be put into a normal state first, and the alarm condition will be reached again before the alarm will be carried out.

CME4 Modular Temperature Control Instrument

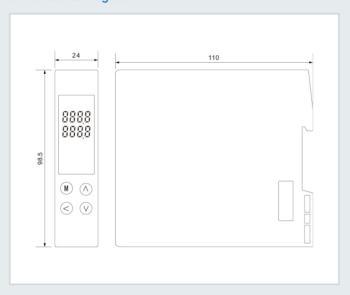


Enter the indexing number type selection

	Input type	Symbol	Temperature measurement range
	K	(nPY	-60-1200
	E	INPE	-60-950
Thermocouple	J	inPJ	-60-1150
mermocoupte	L	inPL	0-800
	Т	inPE	-60-350
	R	nPr	0-1700
	S	inPS	0-1600

	Input type	Symbol	Temperature measurement range	
Thermal resistance	PT100	PE	-60-600	
	CU	EU	-60-150	

Dimensional diagram



D11 www.cntd.com D12

Current Monitoring Module











Features

- Independent high-precision sampling of each channel;
- Has a variety of alarm logic judgment modes;
- Wide operating voltage, compatible with DC12-28V power supply;
- Sufficient threading spacing is reserved between the transformers to facilitate wiring maintenance;
- High-stability design, long-term operation without manual intervention:

■ CTI series current monitoring module is a multi-channel AC current real-time monitoring and acquisition module. By collecting the signal waveform of a high-precision current transformer, the built-in 32-bit high-performance main control unit calculates the effective current value in real time, and can realize a variety of alarm logic according to user settings. Using RS-485 communication bus, data transmission is carried out through the standard MODBUS-RTU protocol.

Terminal definition

Dimensions

Terminal 1: the positive electrode of the module's power supply

225mm

Terminal 2: Negative electrode of module power supply

Terminal 3: RS485+

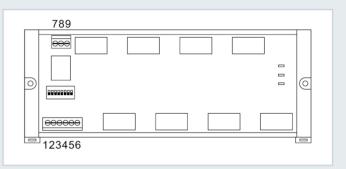
Terminal 4: RS485-

Terminal 5: Input signal INA Terminal 6: Input signal INB

Terminal 7: Normally closed terminal of relay

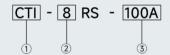
Terminal 8: Common terminal of relay

Terminal 9: Relay normally open



Transformer perforated inner diameter 9.5mm

Product selection



No	Item	Description
1)	СТІ	Current module
2	8	Number of current detection channels 4: Four-way 6: Six ways 8: Eight ways
3	100A	Upper range limit

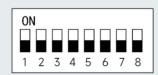
Technical parameters

Supply voltage: DC12-28V	Power consumption: ≤ 1.5W
Working temperature: -20°C ~ 50°C	Working humidity: 15%~90% (no condensation)
Detection resolution: 0.1A	Basic error: ±1%FS
Sampling period: 100ms	Overcurrent capacity: range 150%
Input signal: 9~30V	Relay contact: AC220V/DC30V, 3A
Range range: 50A, 100A	

Note: The input signal is internally bidirectional optocoupler, as long as a 12V or 24V voltage is connected between INA and INB, there is no need to distinguish between positive and negative electrodes.

85mm

Dial code setting



The 8th bit of the dial code of the current monitoring module is used to select the communication parameters.

When the 8th dial code is set to ON, the communication baud rate is 9600, and 8N1 has no verification. At this time, the communication address is determined by dialing code 1-dialing code 7. We regard dialing code ON as a value of 1 and dialing code OFF as a value of 0.: Mailing address = Dial code 1+ (dial code 2×2) + (dial code 3×4) + (dial code 4×8) + (dial code 5×16) + (dial code 6×32) + (dial code

If the 8th bit dial code is set to OFF, the communication address, baud rate, parity bit and other parameters are determined by the registers 202, 203, and 204 (see register definition for details)

Note: After adjusting the communication parameters, the module needs to be restarted to take effect!

Indicator light description

There are three indicators on the right side of the module to identify the working status.

RUN: Running state, long light indicates that the alarm is allowed, and the alarm judgment is prohibited when the short flicker is on; COM: Communication status, flashing during communication;

ALARM: Alarm status, there is an alarm for a long time to light up;

CH6M/S Timing Counter





■ The timing counter can be used in industrial control occasions. It has two working modes, timing work and counting, and the corresponding functions can be selected according to the use scenario.

Features

- One-shot output time, in units of 10ms, can be set from 0.01 seconds to 99.99 seconds:
- Counter mode

Display range 0.00001~99999.9;

9 input modes and 11 output modes to choose from; BATCH counting, counting initial value setting function;

Optional up to 10kCPS input speed;

■ Timer mode

12 time range formats are available;

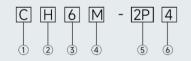
13 output modes are available;

Wide time setting range (0.001 seconds~99999.9 hours)

Support forward timing and countdown;

■ Power-off memory function;

Product selection



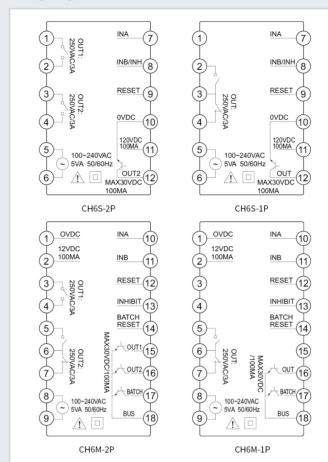
ltem	Code	Description	
① Company name	С	CNTD	
② Series	Н	Counter/timer	
③ Installation dimension	6	999999	
Dimensions	S	DIN W48×H48mm	
	М	DIN W72×H72mm	
© Outrout	1P	1 stage setting type	
⑤ Output	2P	2-stage setting type	
(A Complete valle or	2	24VAC 50/60Hz 24-48VDC	
Supply voltage	4	100-240VAC 50/60Hz	

Electrical Specification

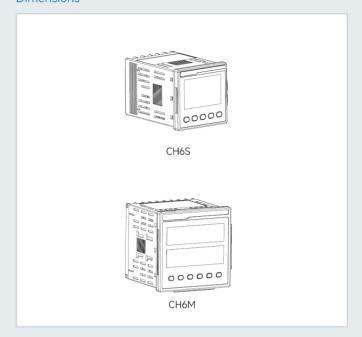
Voltage	AC power supply type	100-240VAC 50/60Hz		
Voltage	DC power supply type	24VDC		
Power consumption		≤ 12VA		
INA/INB maximum counting speed		1cps/30cps/1Kcps/5Kcps/10Kcps can be selected		
Minimum signal width	Counter	Reset input: 1ms, 20ms optional		
	Timer	NA, RESET, INHIBIT, BATCH RESET reset signal: 2ms, 20ms optional		
Input method		No voltage input		
One-shot out	put time	Counter, timer, 0.01seconds~99.99 seconds		
Memory st	orage	10 years (non-volatile semiconductor memory		
Wiring me	thod	Terminal block		
Use the surrounding humidity		-25~+70°C (not frozen state)		
Storage temperature		-30~+80°C (not frozen state)		
Humidity		35%~95%RH(Non-condensing state)		

CH6M/S Timing Counter

Wiring diagram



Dimensions



Model number	Panel size	Shell size (length×width ×height)	Opening size
CH6S	48×48	44.3×44.3×81	45×45
СН6М	72×72	67×67×81	68×68

Input mode (counter)

Input mode	Timing diagram	Input mode	Timing diagram
UР (Up)	INA H	dn - 2 (Down−2)	INA H
UP- 1 (Up−1)	INA H INB H - 本計数 4 5	Ud - A (Up/Down-A)	INA H
UP-2 (Up-2)	INA H A A A A A A A A A A A A A A A A A A	Ud-b (Up/Down-B)	INA H INB H
dn (Down)	INA H	Ud- [(Up/Down-C)	INA H INB H
dn- (Down-1)	INA H NB H		

D15 www.cntd.com www.cntd.com D16

CH6M/S Timing Counter

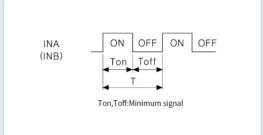
* (a) is above the minimum signal width and (b) is above 1/2 of the minimum signal width. When it is less than this signal width, a counting error of ±1 may occur.

*The meanings of "H" and "L" in the table below are as follows

	(PNP)	(NPN)
Н	5-30VDC	(Short)
L	0-2VDC	(Open)

*The minimum signal width of each counting speed

Counting speed	Minimum signal width	
1cps	500ms	
30cps	16.7ms	
1kcps	0.5ms	
5kcps	0.1ms	
10kcps	0.05ms	



Output mode (counter)

Output mode	Timing diagram			Output mode		Timing diagram	
	Up, Up-1, 2	Down, Down-1, 2	Up/Down A,B,C		Up, Up-1, 2	Down, Down-1, 2	Up/Down A,B,C
F (F)	RESET 99999 9 99999 9 99999 9 99999 9 99999 9			(K) 5	RESET 999999 PRESET2 PRESET1 OUT1 OUT2		
(N)	RESET 999999 PRESET2 PRESET2 OUT1 OUT5 OUT)			(к) Б	RESET 1999999 10 10 10 10 10 10 10 10 10 10 10 10 10		
(c) [RESET 999999 PRESET2 PRESET1 OUT1 GUT7			역 (Q)	RESET 99999 999999 99658172 9968811 90712		
(R)	PESET 099999 PHESET2 PRESET1 00UT1 0UT1 0UT1			/A)	RESET 999999 PRESET2 OUT1 OUT1 OUT2 (OUT)		

*The OUT output in the 1-stage setting type is the same as the OUT2 output in the 2-stage setting type.

*The OUT1 output can be set to 0 in all output modes, and the corresponding value can be output.

*When the output mode is C ([),R(r),P(P),Q(q), the OUT2 output cannot be set to 0.

Output mode (counter)



*The OUT output in the 1-stage setting type is the same as the OUT2 output in the 2-stage setting type.

*In the 2-stage setting type, OUT1 can choose one-shot output or Hold output mode.

XOUT1 In all output modes, the preset value can be set to 0, and the output is consistent with the state corresponding to the preset value of 0.

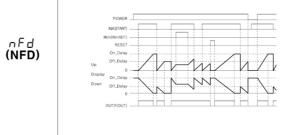
imesWhen the output mode is C (\mathcal{E}),R(\mathcal{F}),P(\mathcal{P}),Q(\mathcal{P}), the OUT2 output cannot be set to 0.

CH6M/S Timing Counter



Output mode (timer)

Output mode	Timing diagram	Output mode	Timing diagram
(OND)	Signal delay (power-on reset) POWER INJUSTATI INDIVIDUAL TO THE POWER INJUSTATI SECTION OF THE POWER INJUSTATION OF THE	ond.2 (OND.2)	Power-up delay (power-up hold) POWER POWE
ond. (OND.1)	Signal delay (power-on reset) POMENT ANALYSTATION ANALYS	FLE (FLK)	Flashing (power-on reset) FORTH STATES AND
FL Ľ. I (FLK.1)	Flashing (power-on reset) Hold output POWER Dealiny Set time OUTSIGNT NHEST Set time OUTSIGNT Down OUTSIGNT OUTSIGNT	FL 22 (FLK.2)	Flashing (power-on hold) Hold output POWER Set time OUTPIOUT) One-shot output POWER NHISTATION NHISTATION
Int (INT)	Interval (power-on reset) POMER POM	I n E.2 (INT.2)	Interval 2 (power-on reset) POWER INALITABITY INALITABITY Set time Set time Set time Set time OUT 1
(INT.1)	Interval 1 (power-on reset) FOMEN INALITARITY INSCRIPTION BESET US OUTDIOUTY OUTDIOUTY	nFd.1 (NFD.1)	y 1 (power-on reset) POMER PARTITION NOTICE TO THE PARTITION OF THE PARTI
(OFD)	Signal OFF delay 1 (power-on reset) POWER PROJECT Settine Up Display Settine Down OUTFIOUT)	(INTG)	ntegration time (power-on reset) POWER NACISMIN INVINITE IN INVI
o.E.d	ON-OFF delay (power-on reset)		



CDH Timer Relay











Features

- Multiple working modes
- Multiple intervals control
- Switching power supply is adopted, with wide voltage range
- Terminal type and pin type, double wiring mode, more convenient wiring and maintenance

Model description

CDH48S-1Z:

A set of time delay relay output, with reset and pause functions;

Two sets of delay relay output;

CDH48S-2ZT:

Two sets of delay relay output, with reset and pause functions;

One set of cycle delay with reset pause function;

CDH48S-2S:

Two sets of cycle delay;

CDH48S-2ST:

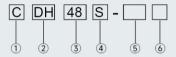
Two sets of cycle delay, with reset and pause functions;

CDH48S-2ZH:

One group of time delay relay output and one group of

instantaneous relay output;

Product selection



Item	Code	Description	
① Conduit / connector size	С	CNTD	
② Series	DH	Timer Relay	
	48	W48xH48mm	
③ Installation dimension	72	W72xH72mm	
④ Installation mode	S	Panel type, 35mm guide rail type	
©	М	Panel type	
⑤ Working mode	See model description for details		
	None	100-240VAC	
	1	24-48VDC	
	2	12VDC	
	3	380VAC	
Rated voltage	4	12VAC	
	5	24VAC	
	6	36VAC	
	1-9 Digital combination	Custom voltage	

Electrical Specification

Display digit	Four digit nixie tube display
Rated voltage	100-240VAC, 50Hz
Work environment	Ambient temperature: - 25 ~ + 70 °C , relative humidity 35 ~ 95% RH (the higher the temperature, the lower the humidity, and there is no water condensation)
Wiring mode	Terminal block
Electric shock capacity	5A AC250V
Repetition error	When the delay range is greater than 1s, er ≤ 1%; When the delay range is less than 1s, Dr ≤ 50ms
Altitude	≤ 2000M
Installation mode	Panel type, 35mm guide rail type





Delay range

CDH48S Default

Switch position	Delay range
Н	1M-99H99M
M	1S-99M99S
S	0.01S-99.99S

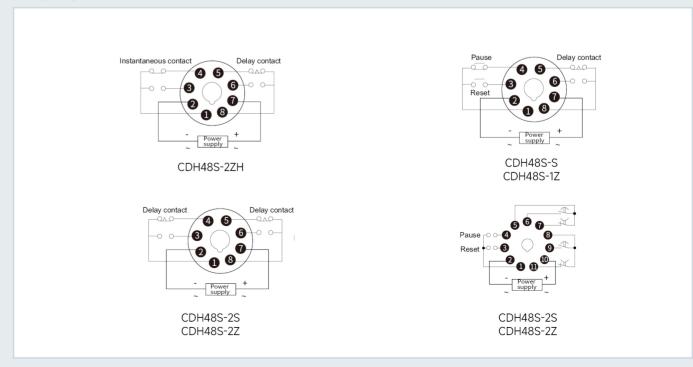
CDH48S-S

Switch position	Delay range
0.1S	0.1S-9.9S
S	1S-99S
0.1M	0.1M-9.9M
М	1M-99M
0.1H	0.1H-9.9H
Н	1H-99H
10H	10H-990H

CDH48S Customized

Switch position	Delay range
M/S	1S-99M99S
H/M	1M-99H99M
0.01S	0.01S-99.99S
0.1S	0.15-999.95
S	1S-9999S
0.1M	0.1M-999.9M
M	1M-9999M
0.1H	0.1H-999.9H
Н	1Н-9999Н
10H	10Н-99990Н

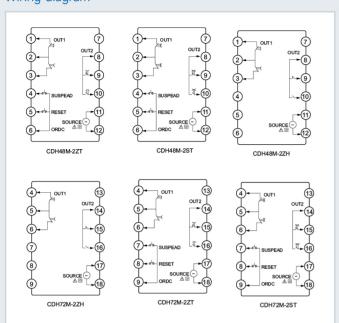
Wiring diagram



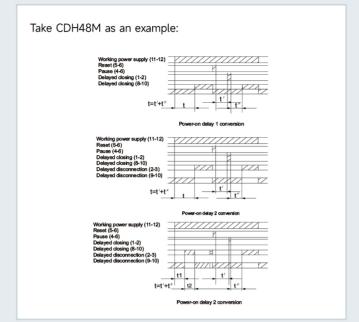
CDH Timer Relay



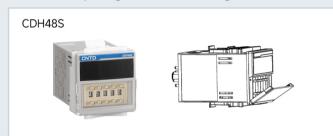
Wiring diagram



Working sequence diagram



Outline and opening dimension drawing (mm)

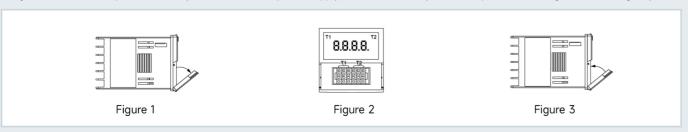




Model	Panel size	Shell size (H x W x L)	Opening size
CDH48S	48x48	48x48x103	45x45
CDH72M	72x72	72x72x81	68x68

Instructions

- 1. Delay setting:
- a) Clamp the concave parts on the left and right sides of the cover plate by hand and pull outward (as shown in Figure 1);
- b) Set the delay time and time period as required (as shown in Figure 2);
- c) After setting, cover the cover (as shown in Figure 3).
- 2.According to the wiring diagram on the label of the time relay housing and the reference circuit, the wiring is correct, and the power supply voltage and frequency must meet the requirements.
- 3.Adjust the dial switch, preset the delay time, turn on the power supply, and the time relay starts to operate according to the working sequence.







4.Due to the memory function of the time relay, the delay time shall be preset according to the above figure before power on. The preset time after power on is invalid, and the repeated start interval of the time relay shall be ≥ 0.5 s.

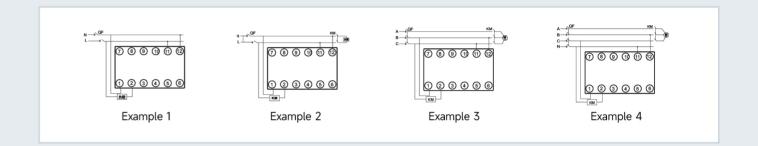
5.Cdh48 — - 1z Function Description: set the dial switch, turn on the power supply, start timing, reach the preset time, the indicator light in the upper left corner of the display window is on, and the delay contact is switched to realize timing control.

6.Cdh48 — - s Function Description: see for delay setting In Figure 2 above, set T1 The time base and preset number of T2, and then turn on the power supply. The two digit nixie tubes on the right display the delay data of T2, and the T2 indicator light is on. When the delay reaches the T2 set value, the time relay acts. At the same time, the two digit nixie tubes on the left display the delay data of T1, and the T1 indicator light is on. When the delay reaches the T1 set value, the time relay releases and T2 starts to delay, so as to realize the cyclic delay control. 7.Reset function: turn on the reset terminal at any time, and the time relay will return to the initial state.

8. Pause function: in the process of timing, turn on the pause terminal, the timing will stop, and the time at the moment will be displayed. After disconnecting, continue the timing. This function can be used as a timer.

9.In strong current environment and long reset and pause termination wires, please use shielded wires.

10.Do not input voltage to reset and pause terminals to avoid damaging the product.



1. In case of single-phase load, if the load resistive current ≤ 3A or inductive current ≤ 0.5A, the time relay is directly controlled. Refer to example 1 for wiring; If the load resistive current is > 3A or inductive current is > 0.5A, the capacity of the time relay is expanded through the AC contactor. Refer to example 2 for wiring; In case of three-phase load, the power supply of AC contactor and time relay is AC380V. Refer to example 3 for wiring; When the power supply of AC contactor and time relay is AC220V, refer to example 4 for wiring.

2. The function of the example time relay is: when the power is connected, the load or km (AC contactor) is powered on. When the time delay reaches the preset value, the load or km (AC contactor) is powered off.

Note 1: the load can be street lamp or bulb, which can be directly connected to the two lines of the street lamp or bulb port (as shown in example 1).

Note 2: KM is the coil of AC contactor, A1 Both ends of A2 can be wired according to example 2, example 3 and example 4.

Note 3: the working power supply of time relay and KM in example 3 is AC380V. Pay attention to the voltage level of the selected product.



Please scan the QR code for detailed usage parameters

D21 www.cntd.com D22

CDT6-A/B Single-Function Time Relay





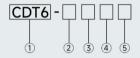
Application

Delay the connection or disconnection of the line, such as controlling the power-on time of the heating element, the working time of the water pump, and the delay disconnection of the fan.

Features

- Cost-effective, single-function time relay, the delay can be set directly through the panel knob, which is convenient and intuitive.
- 2 function modes are optional:
- A: Power-on delay
- B: Delay disconnection
- It has 1 set of delay, 2 sets of delay, 1 set of delay + 1 set of transient specifications are optional.
- Ultra-wide delay range, 0.1 seconds-10 days can be set (10 gears).
- It has AC/DC12V-240V ultra-wide operating voltage specifications to choose from.
- The working status of the relay is indicated by an LED indicator.
- Ultra-small size, only 18mm width, 35mm card rail installation.

Product selection



No	ltem	Code	Description
1	Product name	CDT6	Clamp rail type time relay
(2)	Function code	А	Single function time relay
2)	Function code	В	Single function time relay (delay off)
		1	Group 1 conversion
3	Output the number of contact groups	2	Group 2 conversion
		Т	1 group delay +1 group instantaneous
	④ Output contact	10	Output contact 10A
4)		16	Output contact 16A
	Rated operating voltage	W	AC/DC12V-240V
(5)		М	AC220V
		A-Z letter combination	Custom voltage

CDT6-A/B Single-Function Time Relay



Technical parameters

		CDT6-A1/B1 CDT6-A2/B2 CDT6-AT/BT			
Function		Type A: power-on delay; type B: delay disconnection			
Power terminal		A1-A2			
Rated control power supply voltage	W	AC/DC 12-240V(50-60Hz)			
Power consumption	(AC/DC12V-240V)		AC 0.09-3VA/DC 0.05-1.7W		
Rated control power supply voltage	M (AC220V)		AC 220V(50-60Hz)		
Power consumption		AC max.6VA/1.3W	AC max.6	5VA/1.9W	
Allowable fluctuation supply	range of power		-15%;+10%		
Power indicator			Green LED		
Delay range		0.1 seco	onds-10 days, normally open, normally	closed	
Setting method			knob		
Setting accuracy			10%		
Repeatability		0.2%			
Temperature fluctuat	ion error	0.05%°C ,at=20°C			
	Number of contacts	1 set of conversions	2 sets of conversions	1 set of delay + 1 set of transient	
Output contact parameters	10A	1*10A 250VAC/24VDC 2*10A 250VAC/24VDC		/AC/24VDC	
	16A	1*16A 250VAC/24VDC 2*16A 250VAC/24VDC			
Minimum switching p	oower	500mW			
Output relay indication	on	Red LED			
Mechanical life		1×10 ⁷			
Electrical life (resistiv	e load)	1×10 ⁵			
Reset time		Maximum 200ms			
Operating ambient to	emperature	-20°C ~+55°C			
Storage and transpor temperature	tation ambient	-35°C ~+75°C			
Installation method		35mm Card rail installation			
Protection level		IP20			
Installation location		Arbitrary			
Installation altitude		≤ 2000m			
Pollution level		2			
Wiring ability		1×2.5mm²or 2×1.5mm² 0.4N·m			
Dimensions		90mm×18mm×65mm			
Weight		67g	80)g	

D23 www.cntd.com D24

CDT6-A/B Single-Function Time Relay



CDT6-M Multifunctional Time Relay

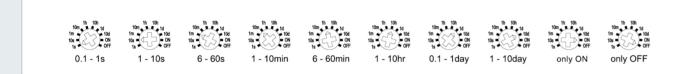
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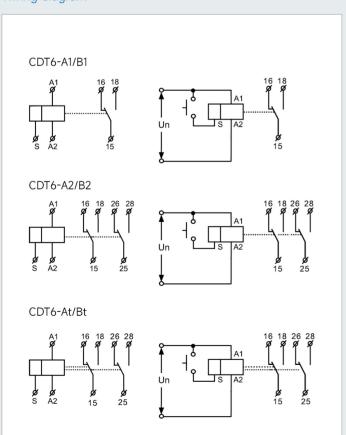
Function diagram



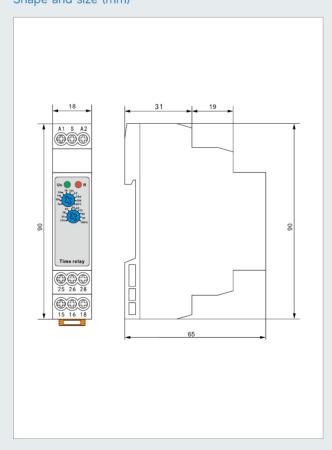
Delay setting



Wiring diagram



Shape and size (mm)



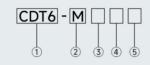
Application

■ The multi-function time relay can be used for industrial equipment, lighting control, heating element control, motor, and fan control. It has 10 delay modes and the delay range covers 0.1 seconds to 10 days.

Features

- 10 kinds of delay modes:
 - -5 kinds of delay modes controlled by power supply
 - -4 delay modes controlled by signal
 - -1 pulse conversion modes
- Ultra-wide delay range, 0.1 seconds-10 days can be set (10 gears).
- It has AC/DC12V-240V ultra-wide operating voltage specifications to choose from.
- The working status of the relay is indicated by an LED indicator.
- Ultra-small size, only 18mm width, 35mm card rail installation.

Product selection



333

No	ltem	Code	Description
1)	Product name	CDT6	Clamp rail type time relay
2	Function code	М	Multi-functional time relay
(3)	Output the number of	1	Group 1 conversion
(3)	contact groups	2	Group 2 conversion
(4)		10	Output contact 10A
(4)	Output contact	16	Output contact 16A
		W	AC/DC12V-240V
5	Rated operating voltage	М	AC220V
		A-Z letter combination	Custom voltage

D25 www.cntd.com D26

CDT6-M Multifunctional Time Relay



CDT6-M Multifunctional Time Relay



Technical parameters

echnical parameters				
		CDT6-M1	CDT6-M2	
Function		A,B,C,D,E,F,G,H,I,J		
Power terminal		A1-A2		
Rated control power supply voltage	W	AC/DC 12-240V(50-60Hz)		
Power consumption	(AC/DC12V-240V)	AC 0.09-3VA/I	DC 0.05-1.7W	
Rated control power supply voltage	N4 (A COOO) ()	AC 220V(5	50-60Hz)	
Power consumption	M (AC220V)	AC max.6VA/1.3W	AC max.6VA/1.9W	
Allowable fluctuation range of po	wer supply	-15%;-	+10%	
Power indicator		Green	LED	
Delay range		0.1 seconds-10 days, norma	ally open, normally closed	
Setting method		kno	bb	
Setting accuracy		109	%	
Repeatability		0.2	%	
Temperature fluctuation error		0.05%°C ,at=20°C		
	Number of contacts	1 set of conversions	2 sets of conversions	
Output contact parameters	10A	1*10A 250VAC/24VDC	2*10A 250VAC/24VDC	
	16A	1*16A 250VAC/24VDC	2*16A 250VAC/24VDC	
Minimum switching power		500mW		
Output relay indication		Red LED		
Mechanical life		1×10 ⁷		
Electrical life (resistive load)		1×10 ⁵		
Reset time		Maximum 200ms		
Operating ambient temperature		-20°C ~+55°C		
Storage and transportation ambie	nt temperature	-35°C ~+75°C		
Installation method		35mm Card rail installation		
Protection level		IP20		
Installation location		Arbitrary		
Installation altitude		≤ 2000m		
Pollution level		2		
Wiring ability		1×2.5mm²or 2×1.5mm² 0.4N⋅m		
Dimensions		90mm×18mm×65mm		
Weight		67g	80g	

Function diagramw

When the relay Un gets power, the relay starts to delay, and the output contact is closed after the delay T.After the relay Un is powered off, the output contact is disconnected, and the S control signal is invalid in this functional mode.





F: Delay disconnection (the rising edge of S triggers the start) When the relay Un is in the energized state, when the S control terminal is turned on, the relay is closed. At the same time, the relay starts to delay. After the delay t, the output contact is disconnected. During the delay t, the S control terminal is turned on again, and the delay t remains unchanged. Continue to delay.





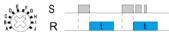
B: Delay disconnection

When the relay Un gets power, the output contacts of the relay are immediately closed and the delay begins. After the delay t, the output contacts are disconnected. If the delay time t does not reach the relay Un loses power, the output contacts are disconnected, and the S control signal is invalid in this functional mode.



G: S falling edge triggers closure, delay disconnection

When the relay Un is in the energized state, when the S control terminal is disconnected, the relay is closed. At the same time, the relay starts to delay. After the delay t, the output contact is disconnected. During the delay t, the S control terminal is turned on and off again, and the delay t remains unchanged. Continue to delay.



C: Cycle delay (START OFF)

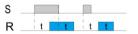
When the relay Un gets power, the relay starts to delay, and the output contact is closed after the delay t, and at the same time, the relay output contact is disconnected after the delay time t, and so on. The cycle is delayed until the relay Un loses power, and the S control signal is invalid in this functional mode.





H: On-off delay When the relay Un is in the energized state, when the S control terminal is turned on, the relay starts to delay, and the output contact is closed after the delay T. When the S control terminal is disconnected, the relay starts to delay, and the output contact is disconnected after the delay T.





D: Cycle delay (ON start)

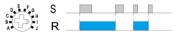
When the relay Un gets power, the relay is closed and the delay begins. After the delay t, the output contact is disconnected. At the same time, the relay output contact is closed after the delay time t, and so on. The cycle is delayed until the relay Un loses power, and the S control signal is invalid in this functional mode.





I: Pulse conversion When the relay Un is in the energized state, when the S control terminal is turned on, the state of the relay output contact transitions.





E: Delay disconnection (the falling edge of S triggers the start) When the relay Un is in the energized state, when the S control terminal is turned on, the relay is closed, and when the S control terminal is disconnected, the relay starts to delay. After the delay to the output contact is disconnected. During the delay t, the S contro terminal is turned on again, and the delay t is cleared to re-delay



When the relay Un is powered up, the relay starts to delay. After the delay time t arrives, the relay output contact is closed for 0.5s and disconnected.





D27 www.cntd.com

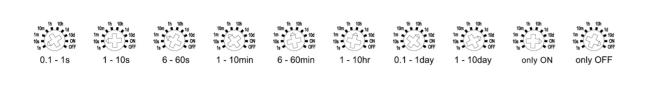
CDT6-M Multifunctional Time Relay



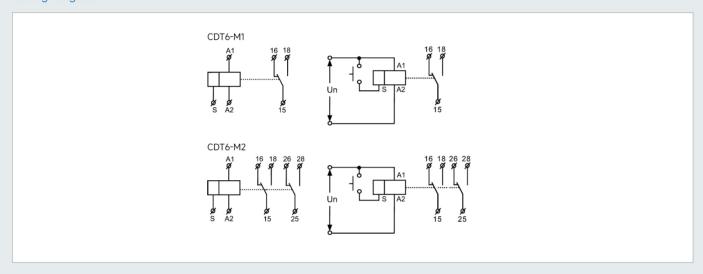
CDT6-EC Double Functional Time Relay



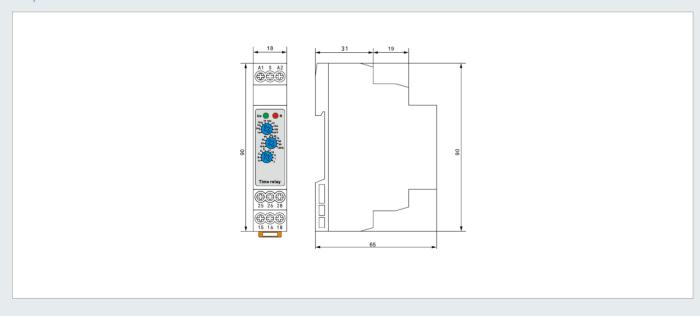
Delay setting



Wiring diagram



Shape and size (mm)



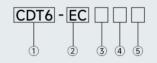
Application

■ The dual-function time relay can be used for industrial equipment, lighting control, heating element control, motor, and fan control. It has 2 delay modes, and the delay range covers 0.1 seconds to 10 days.

Features

- 2 delay modes can be set.
- At the same time, it supports two operating voltages, AC220V/
- Ultra-wide delay range, 0.1 seconds-10 days can be set.
- The working status of the relay is indicated by an LED indicator.
- Ultra-small size, only 18mm width, 35mm card rail installation.

Product selection



No	Item	Code	Description	
1)	Product name	CDT6	CDT6 Clamp rail type time relay	
2	Function code	EC	Dual function time relay (power delay, delay off)	
(3)	Output the number of contact groups	1	Group 1 conversion	
4	Output contact	10	Output contact 10A	
(5)	© Datadassation allega	М	AC220V	
s Rated operating volt	Rated operating voltage	A-Z letter combination	Custom voltage	

D29 www.cntd.com www.cntd.com D30





CDT6-EC Double Functional Time Relay



(M) (CE

Technical parameters

		CDT6-EC
Function		Power-on delay, delay disconnection
Power terminal		A1-A2
Rated control power supply voltage		AC220V(50-60Hz)
Power consumption	M (AC220V)	AC 3VA 0.5W
Allowable fluctuation range of power	r supply	-15%;+10%
Power indicator		Green LED
Delay range		0.1 seconds-10 days
Setting method		Dial code + knob setting
Setting accuracy		5%
Repeatability		0.2%
Temperature fluctuation error		0.05%/°C ,at=20°C
Output contact parameters	Number of contacts	1 set of conversion contacts
	10A	1*10A 250VAC/24VDC
Minimum switching power		500mW
Output relay indication		Red LED
Mechanical life		1×10 ⁷
Electrical life (resistive load)		1×10 ⁵
Reset time		Maximum 200ms
Operating ambient temperature		-20°C ~+55°C
Storage and transportation ambient	temperature	-35°C ~+75°C
Installation method	on method 35mm Card rail installation	
Protection level		IP20
Installation location		Arbitrary
Installation altitude		≤ 2000m
Pollution level		2
Wiring ability		1×2.5mm²or 2×1.5mm² 0.4N·m
Dimensions		90mm×18mm×65mm
Weight		67g

CDT6-EC Double Functional Time Relay



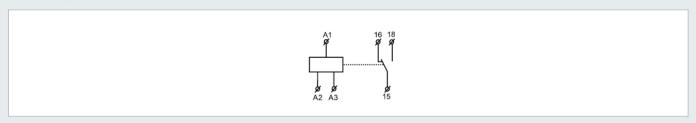
Function diagramw



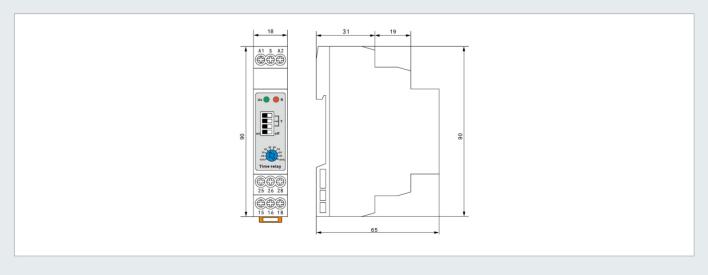
Delay setting



Wiring diagram



Shape and size (mm)



D31 www.cntd.com D32

CDT6-K Digital Set Time Relay





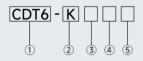
Application

■ The digital set time relay with digital setting can be used for industrial equipment, lighting control, heating element control, motor, and fan control. It has 4 delay modes and the delay range covers 0.1 seconds to 99 hours.

Features

- 4 delay modes can be set.
- Through the digital dial code setting, the setting is more accurate.
- Ultra-wide delay range, 0.1 seconds-99 hours can be set.
- With AC/DC12V-240V ultra-wide operating voltage specifications are optional.
- The working status of the relay is indicated by the LED indicator.
- Ultra-small size, only 18mm width, 35mm card rail installation.

Product selection



No	ltem	Code	Description
1)	Product name	CDT6	Clamp rail type time relay
2	Function code	К	Dual function time relay (power delay, delay off)
	Output the number of	1	Group 1 conversion
(3)	© contact groups	2	Group 2 conversion
(4)	Output contact	08	Output contact 8A
4)		16	Output contact 16A
E	Rated operating voltage	W	AC/DC12V-240V
(9)		A-Z letter combination	Custom voltage

CDT6-K Digital Set Time Relay



Technical parameters

		CDT6-K1	CDT6-K2
Function		A,B,E,F	
Power terminal		A1-	A2
Rated control power supply voltage	W	AC/DC 12-24	.0V(50-60Hz)
Power consumption	(AC/DC12V-240V)	AC 0.09-3VA/	/DC 0.05-1.7W
Allowable fluctuation range of powe	r supply	-15%;	+10%
Power indicator		Green	n LED
Delay range		0.1 seconds-99 hours, norr	nally open, normally closed
Setting method		Digital dial	code setting
Setting accuracy		1'	%
Repeatability		0.:	2%
Temperature fluctuation error		0.05%/°C	;at=20°C
	Number of contacts	1 set of conversion contacts	2 sets of conversion contacts
Output contact parameters	8A	1*8A 250VAC/24VDC	2*8A 250VAC/24VDC
	16A	1*16A 250VAC/24VDC	2*16A 250VAC/24VDC
Minimum switching power		500mW	
Output relay indication		Red LED	
Mechanical life		1×10 ⁷	
Electrical life (resistive load)		1×10 ⁵	
Reset time		Maximum 200ms	
Operating ambient temperature		-20°C ~+55°C	
Storage and transportation ambient	temperature	-35°C ~+75°C	
Installation method		35 mm card rail installation	
Protection level		IP20	
Installation location		Arbitrary	
Installation altitude		≤ 2000m	
Pollution level		2	
Wiring ability		1×2.5mm² or 2×1.5mm² 0.4N·m	
Dimensions		90mm×18mm×65mm	
Weight		67g	80g

D33 www.cntd.com D34

CDT6-K Digital Set Time Relay



CDT6-X Digital Display Time Relay

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Function diagramw

A: Power-on delay

When the relay Ún gets power, the relay starts to delay, and the output contact is closed after the delay T.After the relay Un is powered off, the output contact is disconnected, and the S control signal is invalid in this functional mode.





B: Delay disconnection

When the relay Un gets power, the output contacts of the relay are immediately closed and the delay begins. After the delay t, the output contacts are disconnected. If the delay time t does not reach the relay Un loses power, the output contacts are disconnected, and the S control signal is invalid in this functional mode.





F: Delay disconnection (the rising edge of S triggers the start) When the relay Un is in the energized state, when the S control terminal is turned on, the relay is closed. At the same time, the relay starts to delay. After the delay t, the output contact is disconnected. During the delay t, the S control terminal is turned on again, and the delay t remains

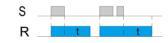


unchanged. Continue to delay.



E: Delay disconnection (the falling edge of S triggers the start) When the relay Un is in the energized state, when the S control terminal is turned on, the relay is closed, and when the S control terminal is disconnected, the relay starts to delay. After the delay t, the output contact is disconnected. During the delay t, the S control terminal is turned on again, and the delay t is cleared to re-delay.





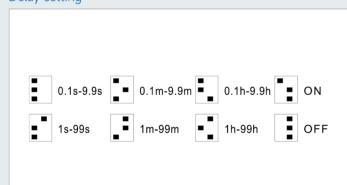
Application

■ The digital display time relay can be used for industrial equipment, lighting control, heating element control, motor, and fan control. It has 20 delay modes, and the delay range covers 0.1 seconds to 99 days.

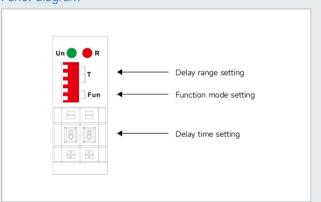
Features

- 20 kinds of delay modes:
 - -5 kinds of delay modes controlled by power supply
 - -13 delay modes controlled by signal
 - -ON, OFF mode
- Ultra-wide delay range, 0.1 seconds-99 days can be set.
- It has an ultra-wide operating voltage of AC/DC 12V-240V.
- The working status of the relay is indicated by an LED indicator.
- The ultra-small size is only 18mm wide, and the 35mm card rail is installed.

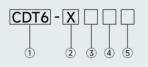
Delay setting



Panel diagram



Product selection



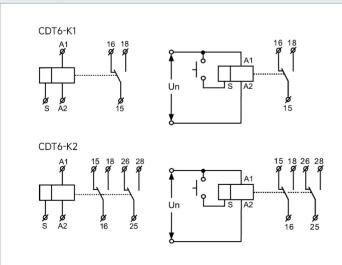
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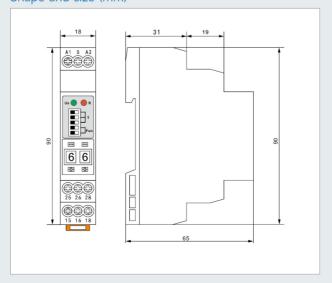
Us O R

No	Item	Code	Description
1)	Product name	CDT6	Clamp rail type time relay
2	Function code	X	Digital display time relay (multi-functional)
	Output the number of	1	Group 1 conversion
3)	3 contact groups	2	Group 2 conversion
	Output contact	10	Output contact 10A
4)		16	Output contact 16A
		W	AC/DC12V-240V
⑤ Rate	Rated operating voltage	М	AC220V
		A-Z letter combination	Custom voltage

Wiring diagram



Shape and size (mm)



D35 www.cntd.com D36

CDT6-X Digital Display Time Relay



CDT6-X Digital Display Time Relay



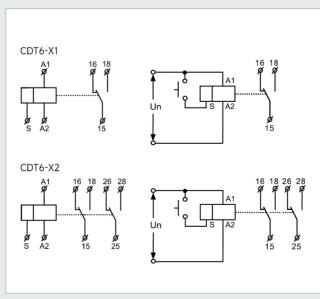
Technical parameters

		CDT6-X1	CDT6-X2
Function		20 functional modes	
Power terminal		A1-A2	
Rated control power supply voltage	W	AC/DC 24-240V 50Hz	
Power consumption	(AC/DC12V-240V)	AC 0.09-3VA/	DC 0.05-1.7W
Rated control power supply voltage	M (AC220V)	AC 220 ¹	V 50Hz
Power consumption	M (AC220V)	AC max.6VA/1.3W	AC max.6VA/1.9W
Allowable fluctuation range of pow	er supply	-15%;	+10%
Rated impact withstand voltage		2.5	kV
Rated insulation voltage		250	V
Power indicator		Green	LED
Delay range		0.1 seconds	- 99 days
Setting method		Button	setting
Setting accuracy		29	%
Repeatability		0.2%	
Temperature fluctuation error		0.05%/°C ,at=20°C	
	Number of contacts	1 set of conversion contacts	2 sets of conversion contacts
Output contact parameters	10A	1*10A 250VAC/24VDC	2*10A 250VAC/24VDC
	16A	1*16A 250VAC/24VDC	2*16A 250VAC/24VDC
Minimum switching power		500	mW
Output relay indication		Red	LED
Mechanical life		1×10 ⁷	
Electrical life (resistive load)		1×10 ⁵	
Reset time		Maximum 200ms	
Operating ambient temperature		-20°C ~+55°C	
Storage and transportation ambien	t temperature	-35°C ~+75°C	
Installation method		35mm card rail installation	
Protection level		IP20	
Installation location		Arbitrary	
Installation altitude		≤ 2000m	
Installation altitude		2	!
Wiring ability		1×2.5mm ² or 2×	1.5mm² 0.4N·m
Dimensions		90mm×18n	nm×65mm
Weight		67g	80g

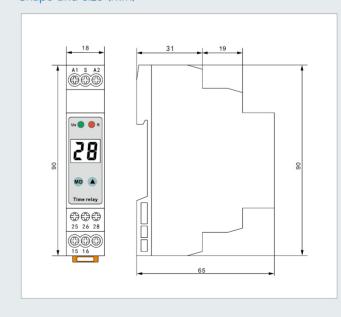
Function diagramw



Wiring diagram



Shape and size (mm)



D37 www.cntd.com D38

CDT6-2T Dual Delay Type Time Relay





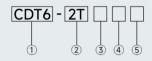
Application

- The dual delay time relay can set 2 sets of power-on delay time, which can be used for time-sharing input of heavy loads to prevent the peak current of the main loop from being too large.
- 2 time relays can be replaced in specific applications to save costs.

Features

- 2 sets of power-on delay settings can be set separately.
- Ultra-wide delay range, 0.1 seconds-10 days can be set (10 gears).
- It has AC/DC12V-240V ultra-wide operating voltage specifications to choose from.
- The working status of the relay is indicated by an LED indicator.
- Ultra-small size, only 18mm width, 35mm card rail installation.

Product selection



No	ltem	Code	Description
1)	Product name	CDT6	Clamp rail type time relay
2	Function code	2Т	Double delay type time relay
(3)	Output the number of contact groups	2	Group 2 conversion
	Output contact	10	Output contact 10A
4)		16	Output contact 16A
		W	AC/DC12V-240V
(5)	Rated operating voltage	М	AC220V
		A-Z letter combination	Custom voltage

CDT6-2T Dual Delay Type Time Relay



Technical parameters

		CDT6-2T	
Function		Dual-set power-on delay	
Power terminal		A1-A2	
Rated control power supply voltage	W	AC/DC 12-240V(50-60Hz)	
Power consumption	(AC/DC12V-240V)	AC 0.09-3VA/DC 0.05-1.7W	
Rated control power supply voltage	M (AC220V)	AC 0.09-3VA/DC 0.05-1.7W	
Power consumption	11 (10220)	AC max.6VA/1.9W	
Allowable fluctuation	range of power supply	-15%;+10%	
Power indicator		Green LED	
Delay range		0.1 seconds-10 days, normally open, normally closed	
Setting method		knob	
Setting accuracy		10%	
Repeatability		0.2%	
Temperature fluctuati	on error	0.05%/°C ,at=20°C (0.05%° F, at=68° F)	
	Number of contacts	2 sets of conversion contacts	
Output contact parameters	10A	2*10A 250VAC/24VDC	
	16A	2*16A 250VAC/24VDC	
Minimum switching p	ower	500mW	
Output relay indication	n	Red LED	
Mechanical life		1×10 ⁷	
Electrical life (resistive	e load)	1×10 ⁵	
Reset time		Maximum 200ms	
Operating ambient te	mperature	-20°C ~+55°C	
Storage and transpor temperature	tation ambient	-35°C ~+75°C	
Installation method		35 mm card rail installation	
Protection level		IP20	
Installation location		Arbitrary	
Installation altitude		≤ 2000m	
Pollution level		2	
Wiring ability		1×2.5mm² or 2×1.5mm² 0.4N·m	
Dimensions		ensions 90mm×18mm×65mm	
		90mm×18mm×65mm	

D39 www.cntd.com D40

CDT6-2T Dual Delay Type Time Relay

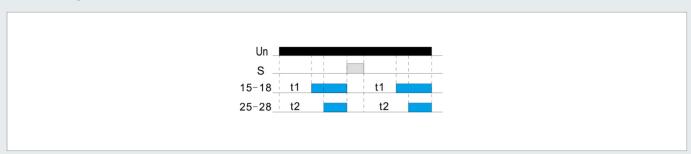


CDT6-S Cycle Delay Type Time Relay

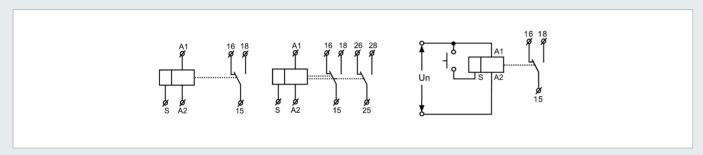
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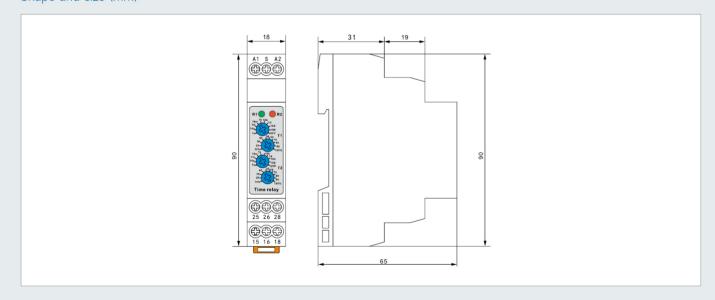
Function diagramw



Wiring diagram



Shape and size (mm)



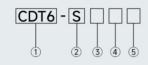
Application

■ Used for cycle delay control, periodic power-on, lighting control, and heating control of an electrical circuit.

Features

- There are separate delay settings for ON and OFF, and different delay times can be set.
- Ultra-wide delay range, 0.1 seconds-100 days can be set (10 gears).
- Different working modes can be switched by shorting S-A1.
- It has AC/DC 12V-240V ultra-wide operating voltage specifications to choose from.
- The working status of the relay is indicated by an LED indicator.
- Ultra-small size, only 18mm width, 35mm card rail installation.

Product selection



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No	Item	Code	Description
1)	Product name	CDT6	Clamp rail type time relay
2	Function code	S	Cycle delay type time relay (loop delay)
(3)	Output the number of	1	Group 1 conversion
(3)	contact groups	2	Group 2 conversion
	④ Output contact	10	Output contact 10A
4)		16	Output contact 16A
		W	AC/DC12V-240V
(5)	Rated operating voltage	М	AC220V
		A-Z letter combination	Custom voltage

D41 www.cntd.com D42

CDT6-S Cycle Delay Type Time Relay



Technical parameters

		CDT6-S1	CDT6-S2	
Function		Cycle delay		
Power terminal		A1-A2		
Rated control power supply voltage	W	AC/DC 12-240V(50-60Hz)		
Power consumption	(AC/DC12V-240V)	AC 0.09-3VA/	DC 0.05-1.7W	
Rated control power supply voltage	M (AC220V)	AC 220V(50-60Hz)	
Power consumption		AC max.6VA/1.3W	AC max.6VA/1.9W	
Allowable fluctuation r supply	range of power	-15%;	+10%	
Power indicator		Green	LED	
Delay range		0.1 seconds	- 100 days	
Setting method		kn	ob	
Setting accuracy		10	%	
Repeatability		0.2	2%	
Temperature fluctuation	on error	0.05%/°C ,at=20°C (0.05%° F, at=68° F)	
	Number of contacts	1 set of conversion contacts	2 sets of conversion contacts	
Output contact parameters	10A	1*10A 250VAC/24VDC	2*10A 250VAC/24VDC	
	16A	1*16A 250VAC/24VDC	2*16A 250VAC/24VDC	
Minimum switching po	ower	500mW		
Output relay indication	n	Red LED		
Mechanical life		1×10 ⁷		
Electrical life (resistive	load)	1×10 ⁵		
Reset time		Maximum 200ms		
Operating ambient ter	mperature	-20°C ~+55°C		
Storage and transport temperature	ation ambient	-35°C ~+75°C		
Installation method		35mm card rail installation		
Protection level		IP20		
Installation location		Arbitrary		
Installation altitude		≤ 2000m		
Pollution level		2		
Wiring ability		1×2.5mm² or 2×1.5mm² 0.4N·m		
Dimensions		90mm×18mm×65mm		
Weight		67g	80g	

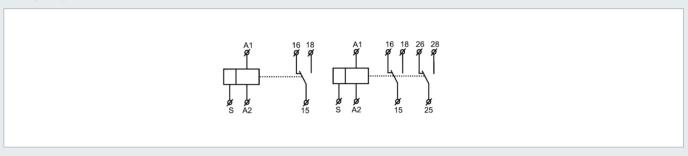
CDT6-S Cycle Delay Type Time Relay



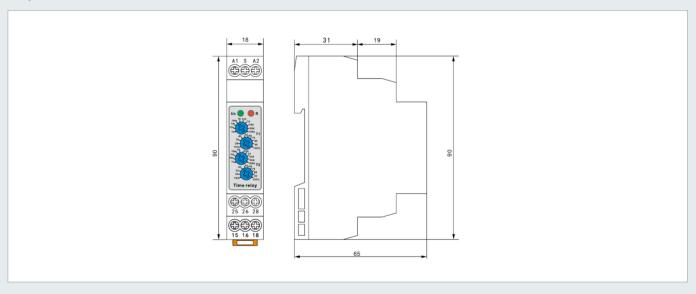
Function diagramw



Wiring diagram



Shape and size (mm)



D43 www.cntd.com www.cntd.com D44

CDT6-P Delay Pulse Type Time Relay





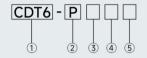
Application

■ Used to delay and generate a pulse, which is used to delay a certain load for a period of time.

Features

- Separate delay time and pulse width settings, different delay
- Ultra-wide delay range, 0.1 seconds-100 days can be set (10 gears).
- The delay time can be reset by shorting S-A1.
- It has AC/DC 12V-240V ultra-wide operating voltage specifications to choose from.
- The working status of the relay is indicated by an LED indicator.
- Ultra-small size, only 18mm width, 35mm card rail installation.

Product selection



No	ltem	Code	Description
1)	Product name	CDT6	Clamp rail type time relay
2)	Function code	Р	Time delay pulse type time relay (delay pulse)
(3)	Output the number of	1	Group 1 conversion
(3)	contact groups	2	Group 2 conversion
	① Output contact	10	Output contact 10A
4		16	Output contact 16A
	© Rated operating voltage	М	AC220V
(5)		W	AC/DC12V-240V
		A-Z letter combination	Custom voltage

CDT6-P Delay Pulse Type Time Relay



		CDT6-P1	CDT6-P2	
Function		Delay pulse output		
Power terminal		A1-A2		
Rated control power supply voltage	W	AC/DC 12-240V(50-60Hz)		
Power consumption	(AC/DC12V-240V)	AC 0.09-3VA/	DC 0.05-1.7W	
Rated control power supply voltage	M (AC220V)	AC 220V(50-60Hz)	
Power consumption		AC max.6VA/1.3W	AC max.6VA/1.9W	
Allowable fluctuation supply	range of power	-15%;	+10%	
Power indicator		Green	LED	
Delay range		0.1 seconds	- 100 days	
Setting method		kno	bb	
Setting accuracy		10	%	
Repeatability		0.2	%	
Temperature fluctuat	ion error	0.05%/°C ,at=20°C (0.05%° F, at=68° F)		
	Number of contacts	1 set of conversion contacts	2 sets of conversion contacts	
Output contact parameters	10A	1*10A 250VAC/24VDC	2*10A 250VAC/24VDC	
	16A	1*16A 250VAC/24VDC 2*16A 250VAC/24VD		
Minimum switching p	oower	500mW		
Output relay indication	on	Red LED		
Mechanical life		1×10 ⁷		
Electrical life (resistiv	e load)	1×10 ⁵		
Reset time		Maximum 200ms		
Operating ambient te	emperature	-20°C ~+55°C		
Storage and transpor temperature	tation ambient	-35°C ~+75°C		
Installation method		35 mm card rail installation		
Protection level		IP20		
Installation location		Arbitrary		
Installation altitude		≤ 2000m		
Pollution level		2		
Wiring ability		1×2.5mm² or 2×1.5mm² 0.4N·m		
		90mm×18mm×65mm		
Dimensions				

D45 www.cntd.com www.cntd.com D46

CDT6-P Delay Pulse Type Time Relay

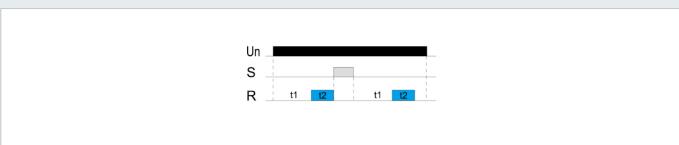


CDT6-ST Star-Delta Relay Time Relay

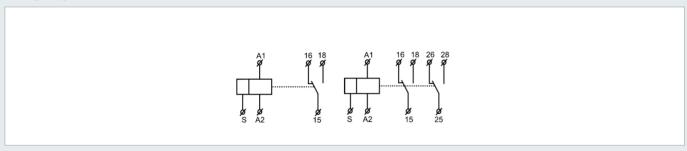
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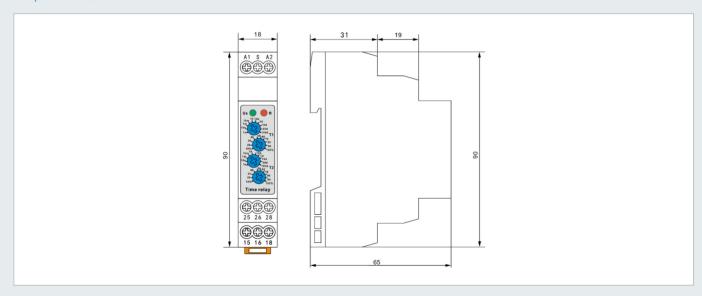
Function diagramw



Wiring diagram



Shape and size (mm)



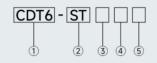
Application

It is specially used for motor star triangle start-up control, which can greatly simplify the electrical circuit, facilitate wiring and reduce costs.

Features

- t1: The start-up delay range of 0.1s-10min can be set (knob setting).
- t2: The conversion time is 0.1s-1s can be set (knob setting).
- With AC220, AC380, AC/DC12V-240V ultra-wide operating
- voltage specifications are optional.
- The working status of the relay is indicated by an LED indicator.
- Ultra-small size, only 18mm width, 35mm card rail installation.

Product selection



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323

No	ltem	Code	Description
1	Product name	CDT6	Clamp rail type time relay
2	Function code	ST	Star delta start time relay (star triangle start delay)
3	Output the number of contact groups	2	Group 2 conversion
	Output contact	10	Output contact 10A
4)		16	Output contact 16A
	⑤ Rated operating voltage	М	AC220V
		W	AC/DC12V-240V
(5)		Н	AC380V
		A-Z letter combination	Custom voltage

D47 www.cntd.com D48

CDT6-ST Star-Delta Relay Time Relay



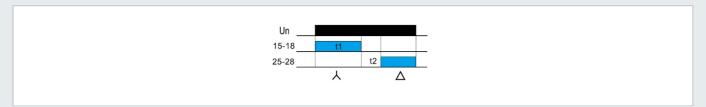
CDT6-ST Star-Delta Relay Time Relay



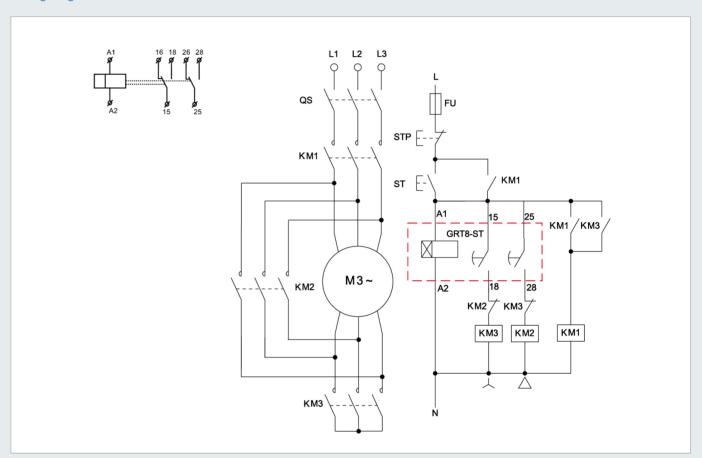
Technical parameters

		CDT6-ST	
Function		Star Triangle start delay	
Power terminal		A1-A2	
Rated control power supply voltage	W	AC/DC 12-240V(50-60Hz)	
Power consumption	(AC/DC12V-240V)	AC 0.3-2VA/DC 0.1-1.2W	
Rated control power supply voltage	M (AC220V)	AC 220V,AC 380V(50-60Hz)	
Power consumption	H (AC380V)	AC max.6VA/1.3W	
Allowable fluctuation range of power	supply	-15%+10%	
Power indicator		Green LED	
Delay range		Start-up delay: 0.1 seconds-10 minutes, conversion delay: 0.1s-1s	
Setting method		knob	
Setting accuracy		10%	
Repeatability		0.2%	
Temperature fluctuation error		0.05%/°C ,at=20°C (0.05%° F, at=68° F)	
	Number of contacts	2 sets of conversion contacts	
Output contact parameters	10A	2*10A 250VAC/24VDC	
	16A	2*16A 250VAC/24VDC	
Minimum switching power		500mW	
Output relay indication		Red LED	
Mechanical life		1×10 ⁷	
Electrical life (resistive load)		1×10 ⁵	
Reset time		Maximum 200ms	
Operating ambient temperature		-20°C ~+55°C	
Storage and transportation ambient to	emperature	-35°C ~+75°C	
Installation method		35mm card rail installation	
Protection level		IP20	
Installation location		Arbitrary	
Installation altitude		≤ 2000m	
Pollution level		2	
Wiring ability		1×2.5mm² or 2×1.5mm² 0.4N·m	
Dimensions		90mm×18mm×65mm	
Weight		80g	

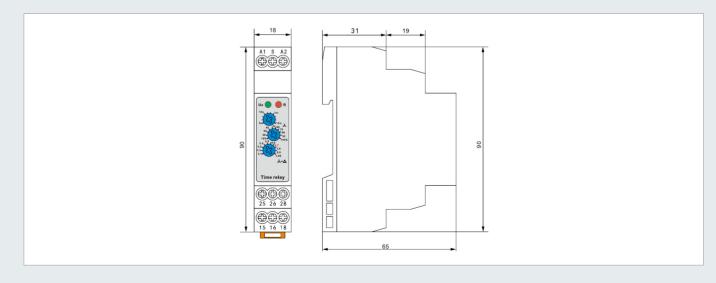
Function diagramw



Wiring diagram



Shape and size (mm)



D49 www.cntd.com D50

CDT6-LS Corridor Delay Switch

0 0

Us R

ON — AUTO — OFF —





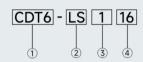


Used for corridor, corridor, hall, bathroom lighting delay control.

Features

- Has three modes of operation: ON: The output contact remains ON, AUTO: Automatic delay control, OFF: The output contact remains OFF
- L-3 can be connected with neon light switch. Delay range 0.5-20min can be set (knob setting).
- Relay operating status is indicated by LED indicator.
- Ultra-small size, only 18mm width,35mm card rail mount.

Product selection



No	ltem	Description
1	CDT6 series time relay	-
2	Corridor delay switch	-
3	Output the number of contact groups	1:Group 1 conversion
4	Output contact	16:Output contact 16A

Technical parameters

	CDT6-LS
Function	Corridor delay switch
Power terminal	L-N
Rated control power supply voltage	AC220V(50-60Hz)
Power consumption	AC max.6VA-1.3W
Allowable fluctuation range of power supply	-15%+10%
Power indicator	Green LED
Delay range	AUTO:0.5-20min ON OFF

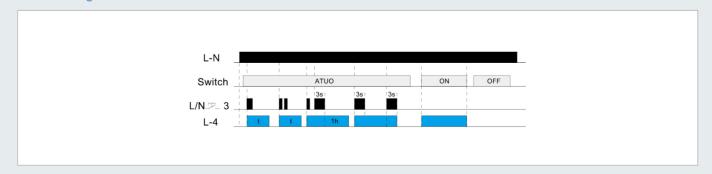
CDT6-LS Corridor Delay Switch



Technical parameters

	CDT6-LS
Setting method	knob
Setting accuracy	10%
Repeatability	0.2%
Neon connection	Yes (N-3 or L-3)
Maximum number of neon connections	230V, up to 75 PCS (about 0.68mA/230VAC at neon current)
Temperature fluctuation error	0.05%/°C ,at=20°C
	2 sets of conversion contacts
Output contact parameters	16A/AC1
	250VAC/24VDC
Minimum switching power	500mW
Output relay indication	Red LED
Mechanical life	1×10 ⁷
Electrical life (resistive load)	1×10 ⁵
Reset time	Maximum 200ms
Operating ambient temperature	-20°C ~+55°C
Storage and transportation ambient temperature	-35°C ~+75°C
Installation method	35mm card rail installation
Protection level	IP20
Installation location	Arbitrary
Installation altitude	≤ 2000m
Pollution level	2
Wiring ability	1×2.5mm² or 2×1.5mm² 0.4N⋅m
· ·	
Dimensions	90mm×18mm×65mm
-	90mm×18mm×65mm 61g

Function diagramw



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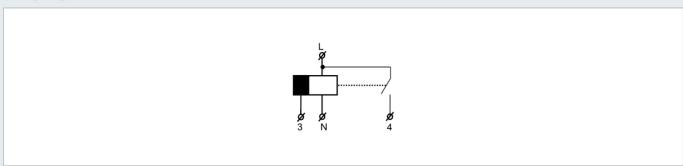
CDT6-LS Corridor Delay Switch

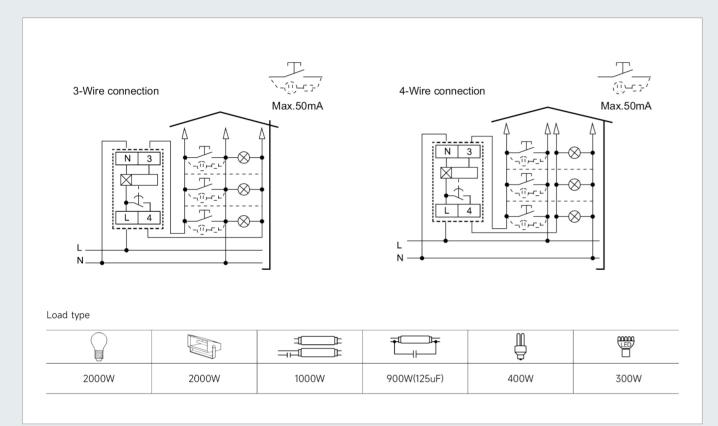


CDA6 AC Current Monitoring Relay

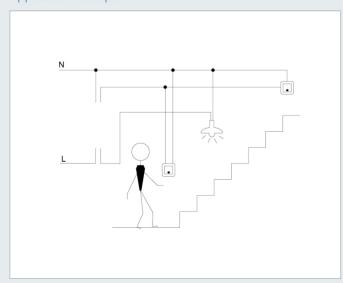


Wiring diagram

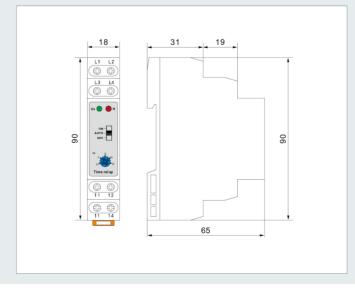




Application example



Shape and size (mm)



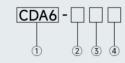
Application

- Elevator overload monitoring, light load monitoring.
- Single-phase motor monitoring current monitoring.
- Current overload/under load indication and protection.

Features

- The action delay time is adjustable from 0.1s to 10s to avoid peak current.
- The power-up delay time is adjustable from 0.1s to 10s to avoid the start-up current of the motor load.
- 6-speed current specifications are optional.
- Built-in isolated current transformer, and at the same time, an external current transformer can be connected to expand the monitoring current range.
- The working power supply voltage is AC 85-240V.
- The working status of the relay is indicated by an LED indicator.
- Ultra-small size, only 18mm width, 35mm card rail installation.

Product selection



No	Item	Code	Description
1)	Product name	CDA6	Voltage monitoring relay
		1	Overcurrent protection
(2)	Function code	2	Undercurrent protection
(2)	Function code	3	Over/under current protection
		4	Overcurrent protection
(3)	Output seatest	10	10A Output contact 10A
3)	③ Output contact	16	16A Output contact 16A
	Current detection range	A05	0.05A-0.5A
		A1	0.1A-1A
		A2	0.2A-2A
(4)		A5	0.5-5A
		A8	0.8-8A
		A16	1.6A-16A

D53 www.cntd.com D54

CDA6 AC Current Monitoring Relay



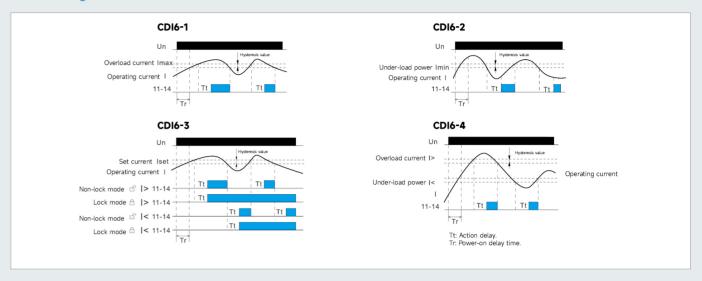
Technical parameters

		CDA6-1	CDA6-2	CDA6-3	CDA6-4	
Function		Overcurrent protection	Under-current protection	Over/under current protection	Overcurrent protection	
Power terminal				A1-A2		
Rated supply voltage			А	C85-240V		
Rated power frequency			Ę	50/60Hz,0		
Power consumption			ı	max 25VA		
Allowable fluctuation range of	f power supply		-	15%;+10%		
Current setting range			0.05A-0.5A/0.1A-1A/0.2	A-2A/0.5A-5A/0.8A-8A/1.6A-16A		
Measuring current frequency				AC50HZ		
Maximum passing current			1A/2A/	5A/8A/12A/22A		
Current setting method			Kı	nob setting		
Action delay time				0.1s~10 s		
Power indicator				Green LED		
Setting accuracy				10%		
Current measurement accura	CV		5% (0.0	05-0.5A 为 10%)		
Temperature fluctuation error			<0.1%/°C			
Hysteresis value		5%				
	10A		2*10A 250VAC/24VDC			
Output contact parameters	16A	2*16A 250VAC/24VDC				
Minimum switching power		500mW				
Output relay indication		Red LED				
Mechanical life		1×10 ⁷				
Electrical life (resistive load)		1×10 ⁵				
Operating ambient temperate	ıre		-20°C ~+55°C			
Storage and transportation a temperature	mbient	-35°C ~+75°C				
Installation method		35mm card rail installation				
Protection level		IP20				
Installation location	allation location		Arbitrary			
Installation altitude	Installation altitude		≤ 2000m			
Pollution level		2				
Wiring ability		1×2.5mm² or 2×1.5mm² 0.8N·m				
Dimensions		90mm×18mm×65mm				
Weight		67g				

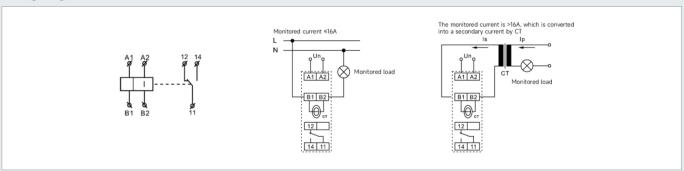
CDA6 AC Current Monitoring Relay



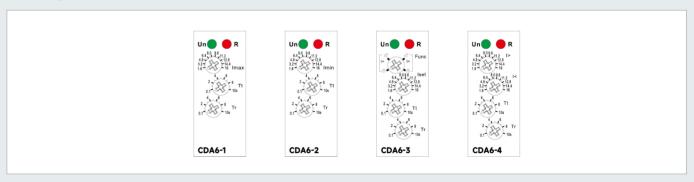
Function diagramw



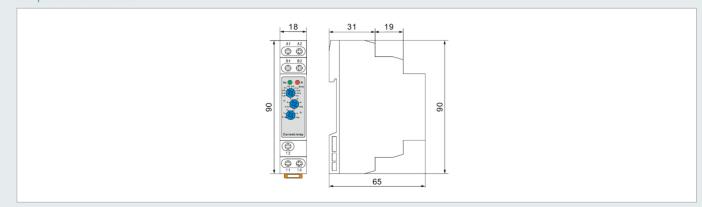
Wiring diagram



Panel diagram



Shape and size (mm)



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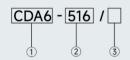
Application

Electrical equipment overcurrent and undercurrent monitoring

Features

- Through the core design, no need to disconnect the current circuit, through the core installation is easy to use
- The jumper can set the over/undercurrent monitoring mode
- Specifications with AC/DC general detection are optional
- Using isolated current transformer, while the external current transformer can expand the monitoring current range
- Working power supply voltage AC/DC85V-240V
- Relay operating status is indicated by LED indicator
- Ultra-small size, only 18mm width, 35mm card rail mounting

Model designation



No	ltem	Descr	iption
1)	CDA6 series current monitoring relay		-
2	Design sequence number		-
		Designation	Function description
3	③ Function code	A	AC detection type
		В	AC-DC detection type

Technical parameters

	CDA6-516
Feature	AC detection type
Power terminal	A1-A2
Rated supply voltage	AC/DC 85V-240V
Rated power frequency	50/60Hz,0
Power consumption	Max 25VA
Power supply allowed fluctuation range	-15%; +10%

CDA6-516 Current Monitoring Relay (Through core type)

Technical parameters

Current setting range 2A-20A Measuring current frequency AC 50Hz Current setting mode Mrob Action delay time 0.16-10a Power indicator light Green LED Setting accuracy 10% Current measurement accuracy 5% Temperature fluctuation error <0.1847°C Lig value 5% Exportation 10A/AC1 Exportation 250VAC/24VDC Minimum switching power 500mW Output relay indication Red LED Mechanical life 110° Electrical life 110° Operating ambient temperature -20°C +15°C Storage and transportation ambient temperature -35°C +75°C Installation mode 35mm card rail installation Class of protection IP20 Installation position Arbitrary Installation netwalton 2 Wring capacity 1*2.5mm² or 2*1.5mm² o.3N·m Overall dimension 90mm*18mm*86mm Weight 6871 14048.5,IEC606947.5 1.EC606692.5.EN 61812.1 <th></th> <th></th>		
Measuring current frequency AC 50Hz Current setting mode knob Action delay time 0.1e-106 Power indicator light Green LED Setting accuracy 10% Current measurement accuracy 5% Temperature fluctuation error 40.1%/PC Lag value 5% Exportation 10A/AC1 Exportation 10A/AC1 Minimum switching power 500mW Output relay indication Red LED Mechanical life 1-10° Electrical life 1-10° Operating ambient temperature 20°C +65°C Storage and transportation ambient temperature 35°C +75°C Operating ambient temperature 35°C +75°C Installation mode 35mm card rail installation Class of protection IP20 Installation position Arbitrary Installation elevation 2000m Pollution level 2 Wring capacity 1×2.5mm² or 2×1.5mm² o.8%m Overall dimension 90mm×18mm×86mm Weight		CDA6-516
Current setting mode knob Action delay time 0.1s-10s Power indicator light Green LED Setting accuracy 10% Current measurement accuracy 5% Temperature fluctuation error <0.75%/PC	Current setting range	2A-20A
Action delay time 0.1s-10s Power indicator light Green LED Setting accuracy 10% Current measurement accuracy 5% Temperature fluctuation error <0.15%"C Lag value 5% Exportation 10A/AC1 Exportation 10A/AC1 Exportation Red LED Minimum switching power 500mW Output relay indication Red LED Mechanical life 1×10" Electrical life 1×10" Operating ambient temperature -20"C +155"C Storage and transportation ambient temperature -35"C +75"C Installation mode 35mm card rail installation Class of protection IP20 Installation position Arbitrary Installation elevation 2000m Pollution level 2 Wring capacity 1×2.5mm² or 2×1.5mm² or 2	Measuring current frequency	AC 50Hz
Power indicator light Green LED Setting accuracy 10% Current measurement accuracy 5% Temperature fluctuation error <0.1%/°C	Current setting mode	knob
Setting accuracy 10% Current measurement accuracy 5% Temperature fluctuation error <0.1%F/C Lag value 5% Exportation 10x/ACT Exportation 250VxC/24VDC Minimum switching power 500mW Output relay indication Red LED Mechanical life 1×10° Electrical life 1×10° Operating ambient temperature -20°C ~55°C Storage and transportation ambient temperature 35°C ~75°C Installation mode 35mm card rail installation Class of protection IP20 Installation elevation 4 xbitrary Installation elevation 2 2000m Pollution level 2 Wring capacity 1×2.5mm² or 2×1.5mm² o.8N m Overall dimension 90mm×18mm×86mm Weight 75g	Action delay time	0.1s~10s
Current measurement accuracy 5% Temperature fluctuation error <0.1%/°C	Power indicator light	Green LED
Temperature fluctuation error 40.1%°C Lag value 5% Exportation 10A/AC1 Minimum switching power 500mW Output relay indication Red LED Mechanical life 1×10° Electrical life 1×10° Operating ambient temperature -20°C ~+55°C Storage and transportation ambient temperature -35°C ~+75°C Installation mode 35mm card rail installation Class of protection IP20 Installation position Arbitrary Installation elevation Pollution level 2 Wring capacity 1×2.5mm² o.8N·m Overall dimension 90mm×18mm×86mm Weight 75g	Setting accuracy	10%
Lag value 5% Exportation 1xSPDT Machine and switching power 10A/ACI Output relay indication Red LED Mechanical life 1x10° Electrical life 1x10° Operating ambient temperature -20°C -+55°C Storage and transportation ambient temperature 35mm card rail installation Class of protection IP20 Installation position Arbitrary Installation elevation < 2000m	Current measurement accuracy	5%
Exportation 1xSPDT Exportation 1xSPDT 1xSPDT Exportation 1xSPDT Minimum switching power 500mW Output relay indication Red LED Mechanical life 1x10° Electrical life 1x10° Operating ambient temperature -20°C ~+55°C Storage and transportation ambient temperature 35°C ~+75°C Installation mode 35mm card rall installation Class of protection IP20 Installation position Arbitrary Installation elevation < 2000m Pollution level 2 Wring capacity 1x2.5mm² or 2x1.5mm² 0.8N·m Overall dimension 90mm×18mm×86mm Weight 75g	Temperature fluctuation error	<0.1%/°C
Exportation 10A/ACT Z50VAC/Z4VDC Minimum switching power 500mW Output relay indication Red LED Mechanical life 1×10° Electrical life 1×10° Operating ambient temperature -20°C ~+55°C Storage and transportation ambient temperature -35°C ~+75°C Installation mode 35mm card rail installation Class of protection IP20 Installation position Arbitrary Installation elevation < 2000m Pollution level 2 Wiring capacity 1×2.5mm² or 2×1.5mm² o.8N·m Overall dimension 90mm×18mm×86mm Weight 75g	Lag value	5%
Minimum switching power 500mW Output relay indication Red LED Mechanical life 1×10 ⁷ Electrical life 1×10 ⁵ Operating ambient temperature -20°C -+55°C Storage and transportation ambient temperature -35°C -+75°C Installation mode 35mm card rail installation Class of protection IP20 Installation elevation Pollution level 2 Wiring capacity 1×2.5mm² or 2×1.5mm² 0.8N·m Overall dimension 90mm×18mm×86mm Weight 75g		1xSPDT
Minimum switching power 500mW Output relay indication Red LED Mechanical life 1×10° Electrical life 1×10° Operating ambient temperature -20°C -+55°C Storage and transportation ambient temperature -35°C -+75°C Installation mode 35mm card rall installation Class of protection IP20 Installation elevation Arbitrary Installation elevation evel 2 Wiring capacity 1×2.5mm² or 2×1.5mm² 0.8N·m Overall dimension 90mm×18mm×86mm Weight 75g	Exportation	10A/AC1
Output relay indication Red LED Mechanical life 1×10° Electrical life 1×10° Operating ambient temperature -20°C -+55°C Storage and transportation ambient temperature -35°C -+75°C Installation mode 35mm card rail installation (Lass of protection IP20 Installation position Arbitrary Installation elevation Pollution level 2 Wiring capacity 1×2.5mm² or 2×1.5mm² 0.8N·m Overall dimension 90mm×18mm×86mm Weight		250VAC/24VDC
Mechanical life 1×10 ⁷ Electrical life 1×10 ⁶ Operating ambient temperature -20°C ~+55°C Storage and transportation ambient temperature -35°C ~+75°C Installation mode 35mm card rail installation Class of protection IP20 Installation position Arbitrary Installation elevation < 2000m Pollution level 2 Wiring capacity 1×2.5mm² or 2×1.5mm² 0.8N·m Overall dimension 90mm×18mm×86mm Weight 75g	Minimum switching power	500mW
Electrical life 1×10° Operating ambient temperature -20°C -+55°C Storage and transportation ambient temperature -35°C -+75°C Installation mode 35mm card rail installation Class of protection IP20 Installation position Arbitrary Installation elevation Pollution level 2 Wiring capacity 1×2.5mm² or 2×1.5mm² 0.8N·m Overall dimension 90mm×18mm×86mm Weight 75g	Output relay indication	Red LED
Operating ambient temperature -20°C -+55°C Storage and transportation ambient temperature -35°C -+75°C Installation mode 35mm card rail installation Class of protection IP20 Installation position Arbitrary Installation elevation Pollution level 2 Wiring capacity Overall dimension Weight 75g	Mechanical life	1×10 ⁷
Storage and transportation ambient temperature -35°C ~+75°C Installation mode 35mm card rail installation IP20 Installation position Arbitrary Installation elevation Pollution level 2 Wiring capacity Overall dimension Weight -35°C ~+75°C 35mm card rail installation IP20 Arbitrary Arbitrary 1×2.5mm² or 2×1.5mm² 0.8N·m 90mm×18mm×86mm	Electrical life	1×10 ⁵
Installation mode 35mm card rail installation Class of protection IP20 Installation position Arbitrary Installation elevation ≤ 2000m Pollution level 2 Wiring capacity 1×2.5mm² or 2×1.5mm² 0.8N·m Overall dimension 90mm×18mm×86mm Weight 75g	Operating ambient temperature	-20°C ~+55°C
Class of protection IP20 Installation position Arbitrary Installation elevation Pollution level 2 Wiring capacity Overall dimension Weight P120 Arbitrary 1×2.5mm² 2000m 1×2.5mm² 0.8N·m 90mm×18mm×86mm	Storage and transportation ambient temperature	-35°C ~+75°C
Installation position Installation elevation Pollution level Wiring capacity Overall dimension Arbitrary 4 2000m 2 Wiring capacity 1×2.5mm² or 2×1.5mm² 0.8N·m 90mm×18mm×86mm 75g	Installation mode	35mm card rail installation
Installation elevation ≤ 2000m Pollution level 2 Wiring capacity 1×2.5mm² or 2×1.5mm² 0.8N·m Overall dimension 90mm×18mm×86mm Weight 75g	Class of protection	IP20
Pollution level 2 Wiring capacity 1×2.5mm² or 2×1.5mm² 0.8N·m Overall dimension 90mm×18mm×86mm Weight 75g	Installation position	Arbitrary
Wiring capacity 1×2.5mm² or 2×1.5mm² 0.8N·m Overall dimension 90mm×18mm×86mm Weight 75g	Installation elevation	≤ 2000m
Overall dimension 90mm×18mm×86mm Weight 75g	Pollution level	2
Weight 75g	Wiring capacity	1×2.5mm² or 2×1.5mm² 0.8N·m
	Overall dimension	90mm×18mm×86mm
Meet the standard GB/T 14048.5,IEC60947-5-1,IEC60669-2-3,EN 61812-1	Weight	75g
	Meet the standard	GB/T 14048.5,IEC60947-5-1,IEC60669-2-3,EN 61812-1

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CDA6-516 Current Monitoring Relay (Through core type) ® © C€ ▲ Ø □ Nus

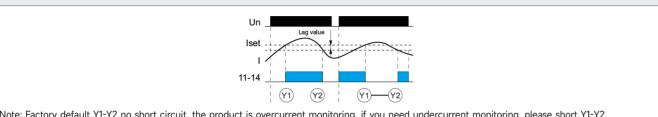
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Us R

CDB6 Sensitivity Adjustable Light Control Switch

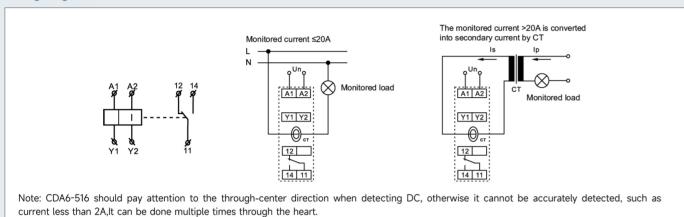
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Function diagramw

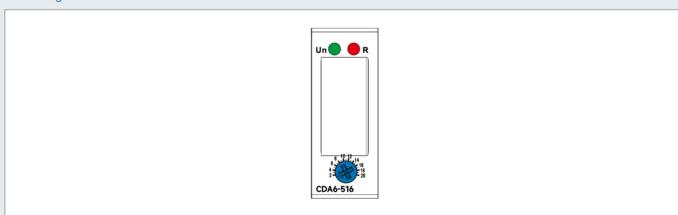


Note: Factory default Y1-Y2 no short circuit, the product is overcurrent monitoring, if you need undercurrent monitoring, please short Y1-Y2.

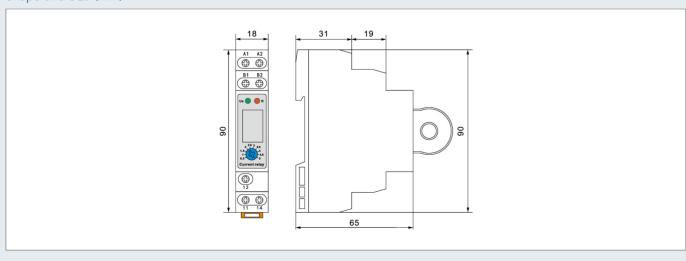
Wiring diagram



Panel diagram



Shape and size (mm)



Application

- Used for corridor, outdoor, light box automatic lighting.
- For devices that need to be turned on automatically at night.

Features

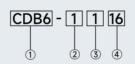
- Light sensitivity (illuminance) can be adjusted as needed.
- Built-in light detection sensor.
- Can be set to work in on-auto-off mode.
- An external switch can be used to turn off the output.
- Working power supply voltage AC110V~240V.
- The working status is indicated by LED indicator.
- Ultra-small size, only 18mm width,35mm card rail mounting.

Accessory



Sensor line

Product selection



No	ltem	Description	
1)	CDB6 series light-controlled switch		-
		Designation	Function description
2	Function code	1	2-pole liquid level monitoring
		2	1 or 2 level monitoring
3	Output the number of contact groups	Group 1 conversion	
4	Output contact	Output contact 16A	

Technical parameters

	CDB6-1116
Feature	Light-controlled switch
Power terminal	L-N
Rated supply voltage	AC 110V-240V
Rated power frequency	50/60Hz
Power consumption	Max 2VA
Power supply allowed fluctuation range	-15%; +10%

D59 www.cntd.com www.cntd.com D60

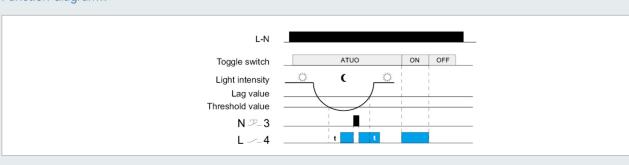
CDB6 Sensitivity Adjustable Light Control Switch



Technical parameters

	CDB6-1116
Sensitivity adjustment range	About 1-100Lx
Working mode	On-auto off can be set
Power indicator light	Green LED
Sensor detection error	±35%
Action delay time	2min
Probe lead length	Max 50m
	1xSPST
Output contact parameters	16A/AC1
	250VAC/24VDC
Minimum switching power	500mW
Output relay indication	Red LED
Mechanical life	1×10 ⁷
Electrical life	1×10 ⁵
Operating ambient temperature	-20°C ~+55°C
Storage and transportation ambient temperature	-35°C ~+75°C
Installation mode	35mm card rail installation
Class of protection	IP20
Installation position	Arbitrary
Installation elevation	≤ 2000m
Pollution level	2
Wiring capacity	1×2.5mm² or 2×1.5mm² 0.8N·m
Overall dimension	90mm×18mm×65mm
Weight	62g
Meet the standard	GB/T 14048.5, EN 60255-1

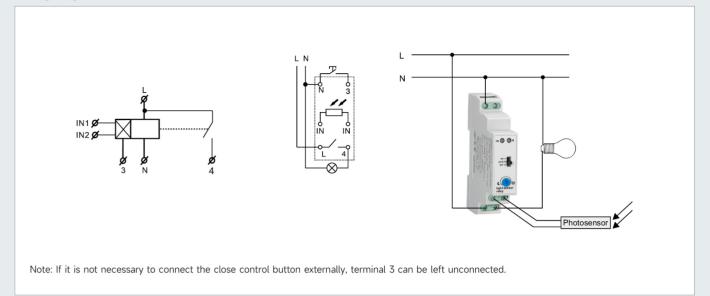
Function diagramw



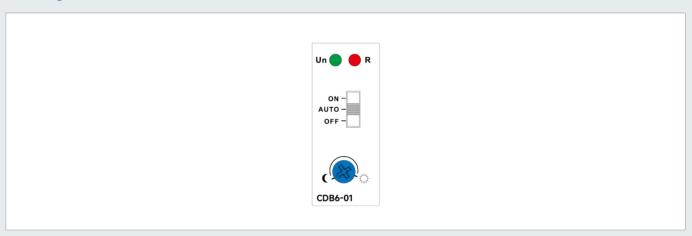
CDB6 Sensitivity Adjustable Light Control Switch



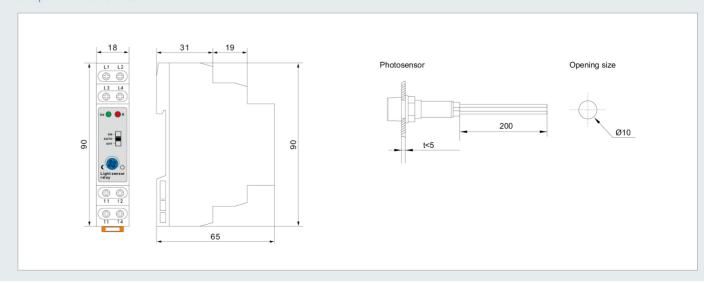
Wiring diagram



Panel diagram



Shape and size (mm)



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CDE6 Temperature and Humidity Controller

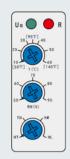




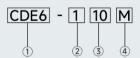
Features

- Four working modes are optional, and the ambient temperature and humidity thresholds can be set.
- Capacitive humidity sensor, low power consumption, stable performance;
- Passive relay output, can be used to drive cooling fan, TEC, heating wire and other devices;
- The working status of the relay is indicated by the LED indicator;
- Working power supply voltage AC 85-240V;
- Ultra-small size, only 18mm width, 35mm card rail installation;
- Applicable to control the temperature and humidity range of power distribution cabinets;

Placard



Model designation



No	Item	Designation	Description
1)	Product name	CDE6	Clamp rail temperature and humidity controller
2	Function code	1	1 group output
3)	Output contact	10	Output contact 10A
	Rated operating voltage	М	AC85-240V 50/60Hz
4	Design sequence number	A-Z letter combination	Custom voltage

Common model

Product Model	Function	Output contact parameter	Rated voltage	
CDE6-110M	Temperature and humidity control	Output contact 10A	AC220V 50/60Hz	

Technical parameters

Feature	Temperature and humidity control
Power terminal	A1-A2
Rated operating voltage	AC85-240V 50/60Hz
Power consumption	<1.7W
Power indicator light	Green LED
Relay status light	Red LED

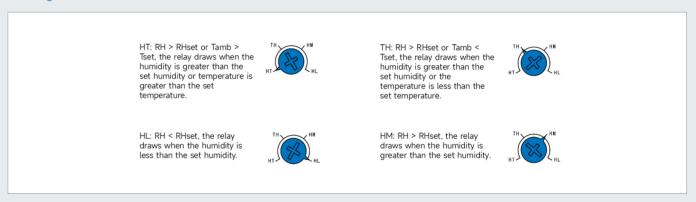
CDE6 Temperature and Humidity Controller



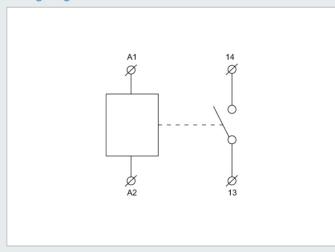
Technical parameters

Cat range	Temperature	10 °C ~60 °C	
Set range	Humidness	50%~90%RH	
Danielia a como	Temperature	±2°C	
Precision error	Humidness	±3% (20%-80% range),±7% (<20% or >80%)	
Output contact parameters		1 set output, 10A 250VAC/24VDC	
Operating ambient temperature		-20 °C ~+ 55°C	
Storage and transportation ambient temperature		-35 °C ~+75°C	
Installation mode		35mm card rail installation	
Installation elevation		≤ 2000m	
Pollution level		2	
Wiring capacity		1x2.5mm² or 2x1.5mm² 0.4N·m	
Overall dimension		90mm×18mm×50mm	
Weight		65g	

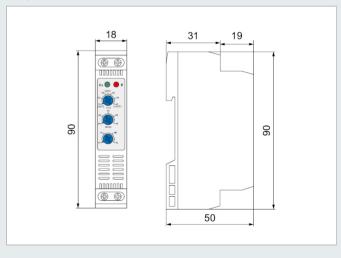
Working mode



Wiring diagram



Shape and size (mm)



Precautions for use

The installation position must be well ventilated and ventilated. Do not be near the heat source to avoid affecting the accuracy of temperature and humidity detection.

(Other general notes are copied)

D63 www.cntd.com D64

CDV6 Single-Phase Voltage Monitoring Relay





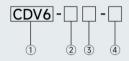
Application

- Used for overvoltage protection of electrical equipment or compressors.
- Switching control of emergency/backup power supply.

Features

- Monitor its own operating voltage (true RMS measurement)
- The working mode can be selected through the knob.
- The voltage measurement accuracy is <1%.</p>
- The working status of the relay is indicated by an LED indicator.
- Ultra-small size, only 18mm width, 35mm card rail installation.

Product selection



No	ltem	Code	Description				
1)	Product name	CDV6	Voltage monitoring relay				
2	Fonction code	1	Overvoltage/undervoltage is selected by knob				
2)	Fonction code	2	It also has over and under voltage function				
(3)	Output contact	10	Output contact 10A				
3)	Output contact	16	Output contact 16A				
	Rated operating voltage		Code name	Rated supply voltage	Limit operating voltage	Set voltage range	
		D12	DC12V	DC 720V	DC 915V		
4		AD48	AC/DC 2448V	AC/DC 15270V	AC/DC 2080V		
		AD240	AC/DC 110240V	AC/DC 50270V	AC/DC 65260V		
		A220	AC 220V	AC 160270V	AC 180260V		





Technical param					
		CDV6-01	CDV6-02		
Function		Voltage m	Voltage monitoring		
Power terminal (mo	onitoring terminal)	A1(+)-A2(-)			
Rated supply voltage	ge	DC12V,AC/DC24V-48V,AC/DC110V-240V,AC220V			
Rated power frequ	ency	45Hz-65Hz,0			
Rated insulation vo	oltage	460	460V		
Hysteresis value		5%-20%	3% fixed		
Power indicator		Green	LED		
Action delay time		0.1s-10	s,10%		
Voltage measureme	ent error	≤ 1	%		
Power-on delay tim	ne	3.0	5s		
Knob setting accur	racy	109	%		
Reset time		1s			
Temperature fluctu	lation error	0.05%/°C ,at=20°C			
Output contact	10A	1*10A 250VAC/24VDC	2*10A 250VAC/24VDC		
parameters	16A	1*16A 250VAC/24VDC	2*16A 250VAC/24VDC		
Minimum switching	g power	500mW			
Output relay indica	ation	Red LED			
Mechanical life		1×10 ⁷			
Electrical life (resis	tive load)	1×10 ⁵			
Operating ambient	temperature	-20°C ~+55°C			
Storage and transp temperature	portation ambient	-35°C ~+75°C			
Installation method	I	35mm card rail installation			
Protection level		IP20			
Installation location		Arbitrary			
Installation altitude		≤ 2000m			
Pollution level		2			
Wiring ability		1×2.5mm² or 2×1.5mm² 0.8N·m			
Dimensions		90mm×18mm×65mm			
Weight		67g			

D65 www.cntd.com D66

CDV6 Single-Phase Voltage Monitoring Relay

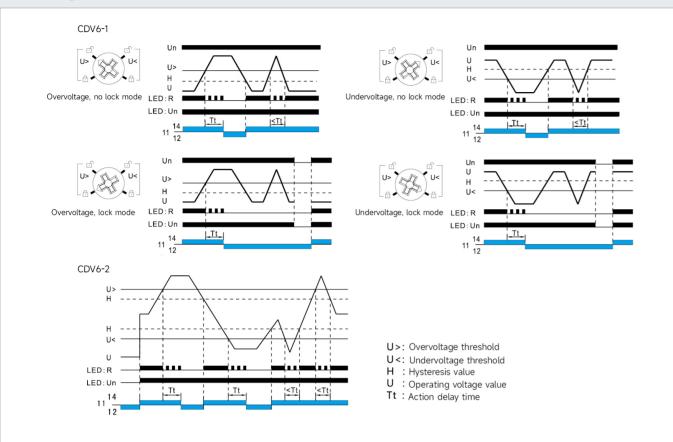


CDV6 Three-Phase Voltage Monitoring Relay

83 33 33 33



Function diagramw



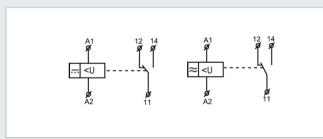
Application

- Used for equipment protection and control (tower cranes, air conditioners, elevators, agricultural equipment, refrigerated
- Protect the equipment to prevent accidents caused by reverse operation.
- Normal/emergency power switch.
- Prevent phase disconnection of the power load.

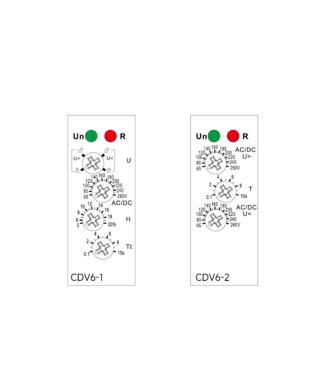
Features

- Monitor its own operating voltage (true RMS measurement), 45Hz~65Hz wide frequency measurement.
- 8 kinds of rated voltages are adjustable, suitable for voltages in various regions of the world.
- 3-phase 3-wire and 3-phase 4-wire specifications are optional.
- The voltage measurement accuracy is <1%.
- It has an anti-harmonic model, which is optimized for high antiinterference occasions.
- The working status of the relay is indicated by an LED indicator.
- Ultra-small size, only 18mm width, 35mm card rail installation.

Wiring diagram

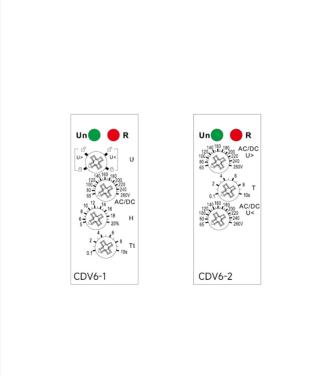


Panel diagram

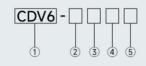


Shape and size (mm)

11 12 14



Product selection



			i					
No	ltem	Code		Description				
1	Product name	CDV6		Voltage monitoring relay				
		Function code	Overvoltage	Undervoltage	Voltage imbalance	Action delay	Phase sequence protection	Phase-off protection
		3	-	-	-	-	•	•
(2)	Function code	4	2%20%	-20%2%	-	0.1s10s	•	•
(2)	Function code	5	2%20%	-20%2%	8%	0.1s10s	•	•
		6	2%20%	-20%2%	5%15%	2s	•	•
		7	-	-	5%15%	0.1s10s	•	•
		8	15%	-15%	8%	2s	•	•
3	Output contact	16		Output contact 16A				
(4)	F	None		Common type				
4)	Form	X		Anti-harmonic type				
	Detect execution	Code name	Rated voltage gear					
(5)	Rated operating voltage	Р		220-230-240-380-400-415-440-460VAC(P-P)				
		N			127-132-138-22	0-230-240-254-2	265VAC(P-N)	

D67 www.cntd.com www.cntd.com D68



-240-254-265(P-N)

CDV6 Three-Phase Voltage Monitoring Relay Technical parameters Function Monitor L-L voltage (3-phase 3-wire system) Monitor L-N voltage (3-phase 4-wire system) L1-L2-L3 L1-L2-L3-N Monitoring terminal L1-L2 L1-N Power supply 220-230-240-380-400 127-132-138-220-230 Rated operating voltage selection

10%

Measuring frequency range	45Hz-	-65Hz
Measuring range	176V-552V	

Measuring range	176V-552V	101V-318V
Voltage threshold range	2%-20% (ra	ted voltage)

-415-440-460(P-P)

Unbalanced value threshold range	5%-15%
Official red value till esticiu failige	5/6 15/6

Voltage fixed hysteresis rate	2%
-------------------------------	----

Power indicator	Green LED

Temperature fluctuation error	0.05%/°C ,at=20°C

Output contact parameters	16A	2*16A 250VAC/24VDC
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Storage and transportation ambient temperature
$$-35^{\circ}\text{C} \sim +75^{\circ}\text{C}$$

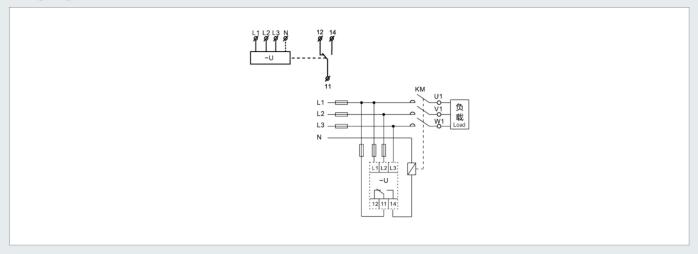
Installation location Arbitrary	Installation location	Arbitrary
---------------------------------	-----------------------	-----------

Installation altitude	≤ 2000n

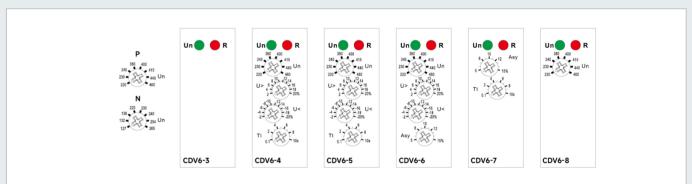
CDV6 Three-Phase Voltage Monitoring Relay



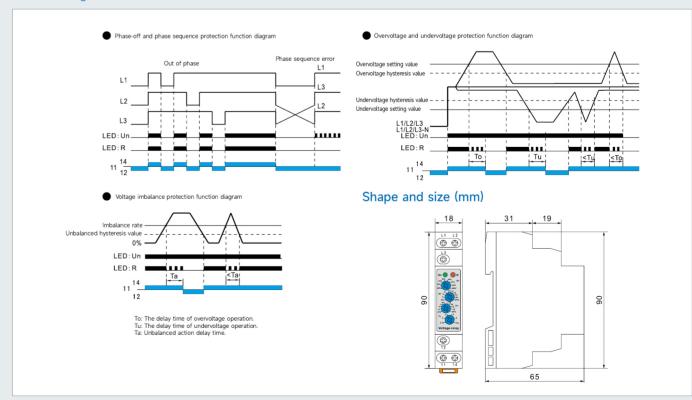
Wiring diagram



Panel diagram



Function diagramw



D69 www.cntd.com

Pollution level

Knob setting accuracy

CDV6 Three-Phase Voltage Monitoring Relay (2 Sets Of Outputs)





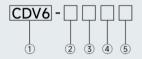
Application

- Used for equipment protection and control (tower cranes, air conditioners, elevators, agricultural equipment, refrigerated
- Protect the equipment to prevent accidents caused by reverse operation.
- Normal/emergency power switch.
- Prevent phase disconnection of the power load.

Features

- Monitor its own operating voltage (true RMS measurement), 45Hz ~ 65Hz wide frequency measurement.
- Two sets of output contacts are used for protection and fault
- 8 kinds of rated voltages are adjustable, suitable for voltages in various regions of the world.
- 3-phase 3-wire and 3-phase 4-wire specifications are optional.
- The voltage measurement accuracy is <1%.</p>
- Anti-harmonic design, optimized for high anti-interference occasions.
- The working status of the relay is indicated by an LED indicator.
- Ultra-small size, only 18mm width, 35mm card rail installation.

Product selection



No	ltem	Code	Description					
1)	Product name	CDV6	Voltage monitoring relay					
		Function code	Overvoltage	Undervoltage	Voltage imbalance	Action delay	Phase sequence protection	Phase-off protection
		3D	-	-	-	-	•	•
(2)	Function code	4D	2%20%	-20%2%	-	0.1s10s	•	•
(2)	Function code	5D	2%20%	-20%2%	8%	0.1s10s	•	•
		6D	2%20%	-20%2%	5%15%	2s	•	•
		7D	-	-	5%15%	0.1s10s	•	•
	8D	15%	-15%	8%	2s	•	•	
3	Output contact	08	Output contact 8A					
(4)	Form	None	Common type					
4)	Form	Х	Anti-harmonic type					
	Detect or costing	Code name	Rated voltage gear					
(5)	Rated operating voltage	Р		220-230-240-380-400-415-440-460VAC(P-P)				
N 127-132-138-220-230-240-254-265VAC(P-N)				265VAC(P-N)				





Technical parameters

		P	N	
Function		Monitor L-L voltage (3-phase 3-wire system)	Monitor L-N voltage (3-phase 4-wire system)	
Monitoring terminal		L1-L2-L3	L1-L2-L3-N	
Power supply		L1-L2	L1-N	
Rated operating voltage	selection	220-230-240-380-400 -415-440-460(P-P)	127-132-138-220-230 -240-254-265(P-N)	
Measuring frequency ra	nge	45Hz-	-65Hz	
Measuring range		176V-552V	101V-318V	
Voltage threshold range		2%-20% (rai	ted voltage)	
Unbalanced value thresh	hold range	5%-	15%	
Voltage fixed hysteresis	rate	29	%	
Power indicator		Greer	n LED	
Action delay time		0.1s - 10s(/	Adjustable)	
Voltage measurement e	rror	<1	1%	
Power-on delay time		0.:	5s	
Knob setting accuracy		10%		
Reset time		1s		
Temperature fluctuation	error	0.05%/°C ,at=20°C		
Output contact parameters	8A	2*8A 250V	AC/24VDC	
Minimum switching pow	ver	500	mW	
Output relay indication		Red	LED	
Mechanical life		1×1	107	
Electrical life (resistive lo	oad)	1×1	10 ⁵	
Operating ambient temp	perature	-20°C ⋅	~+55°C	
Storage and transportat temperature	ion ambient	-35°C ~+75°C		
Installation method		35mm card rail installation		
Protection level		IP20		
Installation location		Arbitrary		
Installation altitude		≤ 2000m		
Pollution level		2		
Wiring ability		1×2.5mm² or 2×1.5mm² 0.8N·m		
Dimensions		90mm×18mm×65mm		
Weight		67	'g	

D71 www.cntd.com www.cntd.com D72

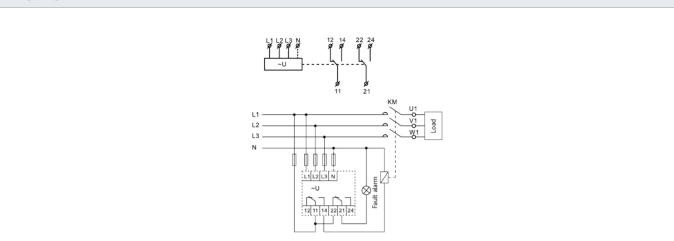
CDV6 Three-Phase Voltage Monitoring Relay (2 Sets Of Outputs)



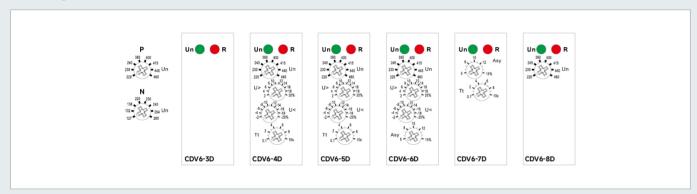
CDL6 Water Level Relay

CNTD

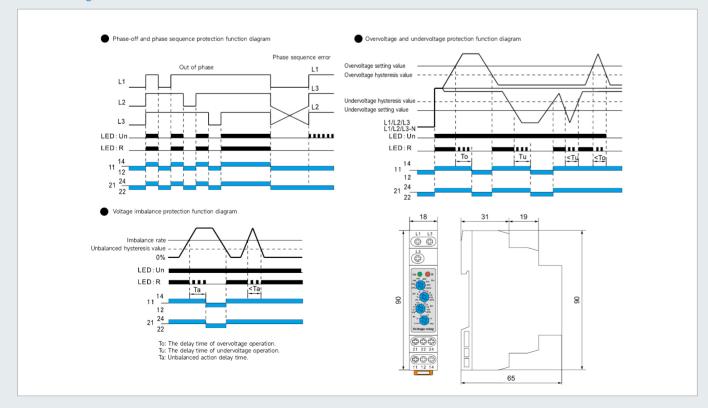




Panel diagram



Function diagram



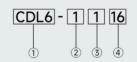
Application

Liquid level detection

Features

- The following two modes of operation can be implemented on 2-pole level control
- 1 pole liquid level control
- Drainage and water supply mode can be set.
- Action delay 0.1s-10s adjustable.
- Working power supply voltage AC/DC 85~240V, isolated power
- Relay operating status is indicated by LED indicator.
- Ultra-small size, only 18mm width,35mm card rail mounting.

Model designation



No	ltem	Description			
1)	CDL6 series water level relay	-			
		Designation	Function description		
2	② Function code	1	2-pole liquid level monitoring		
		2	1 or 2 level monitoring		
3	Output the number of contact groups	Group 1 conversion			
4)	Output contact	Output contact 16A			

Technical parameters

	CDL6-1116	CDL6-2116		
Feature	2-pole liquid level monitoring	1 or 2 level monitoring		
Power terminal	A1-A2			
Rated supply voltage	AC/DC 24V-240V(50-60Hz)			
Power consumption	Max 2VA			

D73 www.cntd.com www.cntd.com D74

CDL6 Sensitivity Adjustable Level Relay



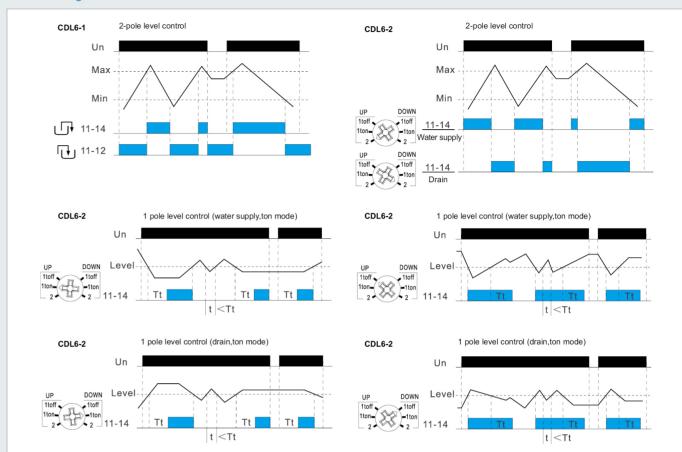
CDL6 Sensitivity Adjustable Level Relay



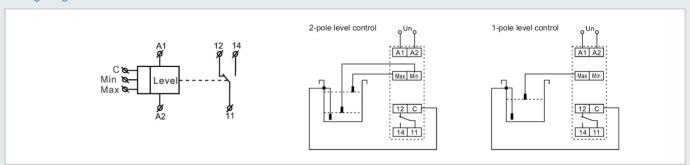
Technical parameters

	CDL6-1116	CDL6-2116	
Power supply allowed fluctuation range	-15%;+10%		
Electrode detection voltage	Max.AC5V		
Electrode current	AC<0.1mA		
Response time	Max.4	00ms	
Electrode cable allowable distributed capacitance (Max.)	800nF(sensitivity max)	,100nF(sensitivity min)	
Electrode cable length	Up to 10	0 meters	
Action delay time	0.1s-10s (a	djustable)	
Setting accuracy	10	%	
	1xSi	PDT	
Output contact parameters	10A/	AC1	
	250VAC/24VDC		
Minimum switching power	500	mW	
Output relay indication	Red LED		
Mechanical life	1x10 ⁷		
Electrical life	1x10 ⁵		
Operating ambient temperature	-20° C -	~+55° C	
Storage and transportation ambient temperature	-35° C^	+75° C	
Installation mode	35mm card r	ail installation	
Class of protection	IP:	20	
Installation position	Arbit	rarily	
Installation elevation	≤ 200	00 m	
Pollution level	2		
Wiring capacity	1x2.5mm² or 2x	1.5mm² 0.4N·m	
Overall dimension	90mm×18r	nm×65mm	
Weight	61g	81g	
Meet the standard	GB/T 14048.5, EN 60255-1		

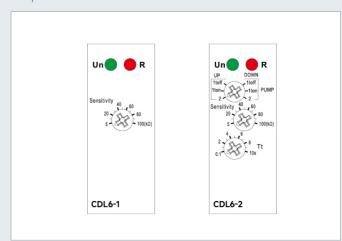
Function diagramw



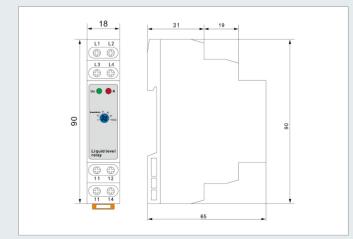
Wiring diagram



Shape and size (mm)



Panel diagram



CDM6 Electronic Pulse Relay





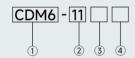
Application

■ Pulse relay, can be controlled from multiple different positions (unlimited number), can replace the 3-way switch, wiring is more simple, economical and convenient.

Features

- Two voltage specifications,AC220V or AC/DC12V~240V.
- AC220V specification can be connected with neon light switch.
- Relay operating status is indicated by LED indicator.
- Ultra-small size, only 18mm width,35mm card rail mounting

Model designation



No	ltem	Description	
1)	CDM6 series electronic pulse relay	-	
2	Output the number of contact groups	11:1 Group conversion	
2)	② Output the number of contact groups	22:2 Group conversion	
3	Outrout contact	10:Output contact 10A	
(3)	③ Output contact	16:Output contact 16A	
(4)	Rated power supply voltage	M:AC220V W:AC/DC12V-240V	

Technical parameters

	CDM6-1	CDM6-2		
Functional model	1 2			
Power terminal	A1-A2			
Rated supply voltage	AC/DC 12V-240V(50-60Hz)			
Power consumption	AC 0.09-3VA/DC 0.05-1.2W			

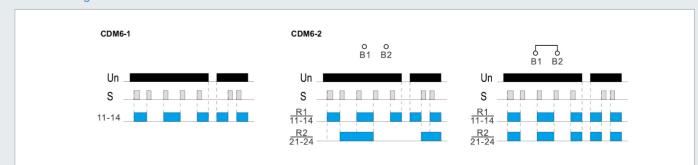
CDM6 Electronic Pulse Relay



Technical parameters

	CDM6-1	CDM6-2		
Rated supply voltage	AC 230V(50-60Hz)		
Power consumption	AC max.12VA/1.3W AC max.12VA/1.9W			
Power supply allowed fluctuation range	-15%;	+10%		
Power indicator light	Green	n LED		
Control terminal	A1	-S		
Neon connection	AC 230V specificati	ions available (A1-S)		
Maximum number of neon connections	230V, up to 75 PCS (about 0.6	8mA/230VAC at neon current)		
Control signal width	Min.	25ms		
	1xSPDT	2xSPDT		
Output relay	16A	/AC1		
	250VAC	250VAC/24VDC		
Minimum switching power	500mW			
Output relay indication	Red LED			
Mechanical life	1x10 ⁷			
Electrical life	1x10 ⁵			
Reset time	Max. 200ms			
Operating ambient temperature	-20° C-	+55° C		
Storage and transportation ambient temperature	-35° C	r+75° C		
Installation mode	35mm card r	ail installation		
Class of protection	IP:	20		
Installation position	Arbit	rarily		
Installation elevation	≤ 2000 m			
Pollution level		2		
Wiring capacity	1x2.5mm² or 2x	1.5mm² 0.4N·m		
Overall dimension	90mm×18r	nm×65mm		
Weight	W240-58g, A220-57g	W240-79g, A220-77g		
Meet the standard	GB/T 14048.5, EN 60810-1			

Function diagramw



D77 www.cntd.com www.cntd.com D78

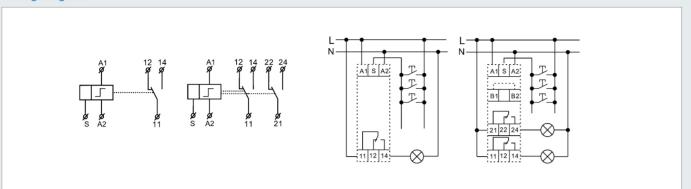
CDM6 Electronic Pulse Relay



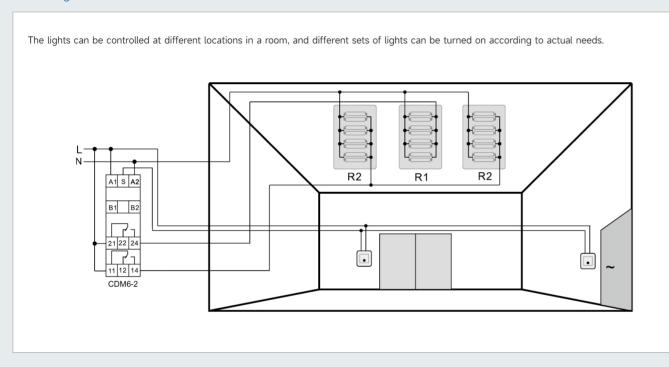
CDW6 Temperature Control Relay



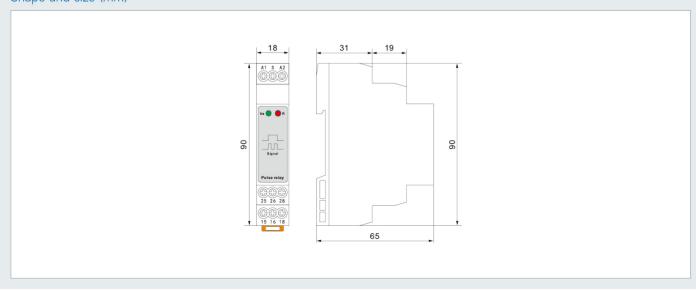
Wiring diagram



Panel diagram



Shape and size (mm)



Application

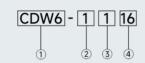
Used for heater temperature control, equipment, room temperature control, cabinet equipment risk control system.

Features

- Using NTC sensor, with sensor short circuit, open circuit monitoring.
- Optional heating/cooling operation mode.
- Working power supply voltage AC/DC 24V to 240V.
- The working status is indicated by LED indicator.
- Ultra-small size, only 18mm width,35mm card rail mounting.



Model designation



No	ltem	Description	
1)	CDW6 series temperature control relay	-	
		Designation	Operating voltage
2	Design sequence number	1	High/low temperature monitoring
		2	Temperature range monitoring
3	Output the number of contactgroups	1	1 groups
4)	Output contact	16	Output contact 16

Technical parameters

	CDW6-1	CDW6-2	
Functional model	Monitor high/low temperatures	Monitoring temperature range	
Power terminal	L-N		
Rated supply voltage	AC/DC 24V-240V		
Rated power frequency	50/60Hz		
Power consumption	Max. 2VA		
Power supply allowed fluctuation range	- 15%; + 10%		

D79 www.entd.com D80

CDW6 Dual Mode Temperature Control Relay



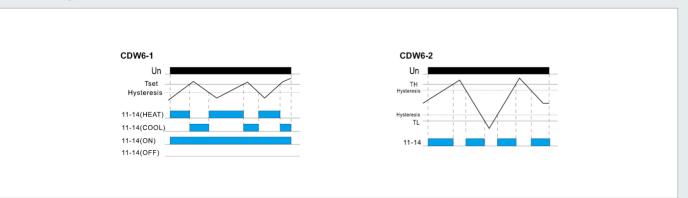
CDW6 Dual Mode Temperature Control Relay



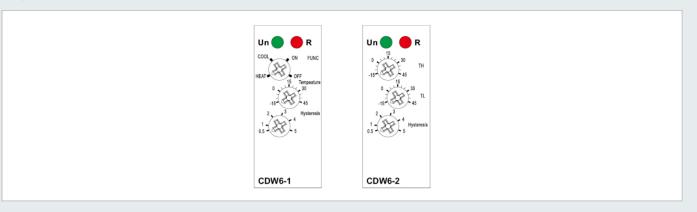
Technical parameters

	CDW6-1	CDW6-2	
Temperature control range	-15C to +45C		
Temperature measurement error	±2	±2°C	
Temperature adjustment lag value	0.5°C	to 5°C	
Working mode	Heating - cooling -	on - off can be set	
Power indicator light	Green	Green LED	
	1xS	PST	
Output contact parameters	16A	16A/AC1	
	250VAC	C/24VDC	
Minimum switching power	500)mW	
Output relay indication	Red	LED	
Mechanical life	1x	107	
Electrical life	1x	10 ⁵	
Operating ambient temperature	-20°C	-+55°C	
Storage and transportation ambient temperature	-35°C	-+75°C	
Installation mode	35mm card r	ail installation	
Class of protection	IP	20	
Installation position	Arbit	rarily	
Installation elevation	200	0 m	
Pollution level		2	
Wiring capacity	1x2.5mm ² or 2x	1.5mm² 0.8N-m	
Overall dimension	90mm×18i	mm×65mm	
Weight	6.	2g	
Meet the standard	GB/T 14048.	GB/T 14048.5,EN 60255-1	

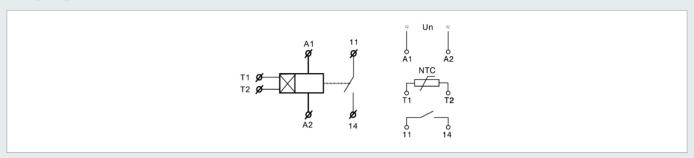
Function diagramw



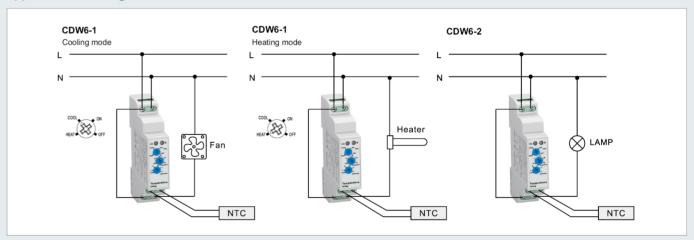
Shape and size (mm)



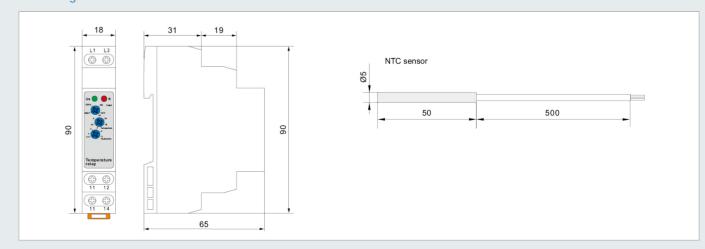
Wiring diagram



Application case diagram



Panel diagram



D81 www.cntd.com D82

CDR6 Modular Intermediate Relay







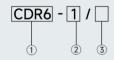
Application

■ Intermediate relays are used to switch a certain current load, increase the load capacity or increase the number of contact

Features

- Rated voltage: AC/DC12V, 24V, 48V, 110V, AC220V.
- CDR6-316 can be used to switch three-phase circuits.
- Relay operating status is indicated by LED indicator.
- Ultra-small size, only 18mm width,35mm card rail mounting.

Model designation



No	ltem	Descr	iption
1)	CDR6 series intermediate relay		-
		Designation	Operating voltage
		1116	1xSPDT 16A
2	Output the number of contact groups	2216	2xSPDT 16A
		1110	1xSPDT 10A
		2210	2xSPDT 10A
		Designation	Operating voltage
		12	AC/DC 12V
3	Function code	24	AC/DC 24V
3)	Function code	48	AC/DC 48V
		110	AC/DC 110V
		М	AC220V

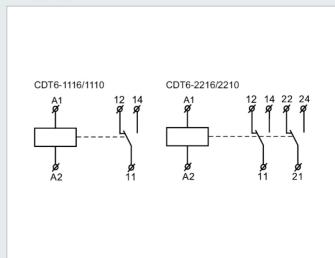
CDR6 Modular Intermediate Relay



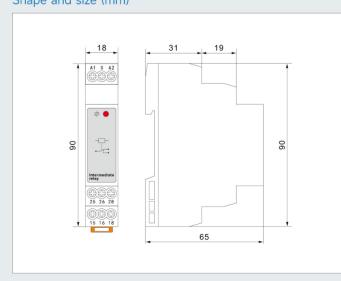
Technical parameters

	CDR6-1116	CDR6-2216	CDR6-1110	CDR6-2210
Power terminal	A1-A2			
Rated supply voltage	AC/DC 12V,24V,48V,110V			
Power consumption	AC.max 12VA/DC.max1.9W			
Power terminal	A1-A2-A3			
Rated supply voltage	AC220V(A1-A2), AC/DC24V(A1-A3)			
Power consumption	AC.max 12VA/DC.max1.9W			
Power supply allowed fluctuation range	-15%;+10%			
Maximum switching time	40ms			
	1xSPDT	2xSPDT	1xSPDT	2xSPDT
Output contact parameters	1x16A	2x16A	1x10A	2x10A
	250VAC/24VDC			
Minimum switching power	500mW			
Output relay indication	Red LED			
Mechanical life	1x10 ⁷			
Electrical life	1x10 ⁵			
Reset time	max.200ms			
Operating ambient temperature	-20°C -+55°C (-4° F to 131° F)			
Storage and transportation ambient temperature		-35°C -+75°C (-	-22° F to 158° F)	
Installation mode	35mm card rail installation			
Class of protection	IP20			
Installation position	Arbitrarily			
Overvoltage class	III			
Pollution level	2			
Wiring capacity	1x2.5mm² or 2x1.5mm² 0.8N-m			
Overall dimension	90mm×18mm×65mm			
Weight	67g	80g	55g	70g

Wiring diagram



Shape and size (mm)



D83 www.cntd.com www.cntd.com D84