

# CT-2718: 8 channel relay output 2A/30VDC/60W

## 1 Module features

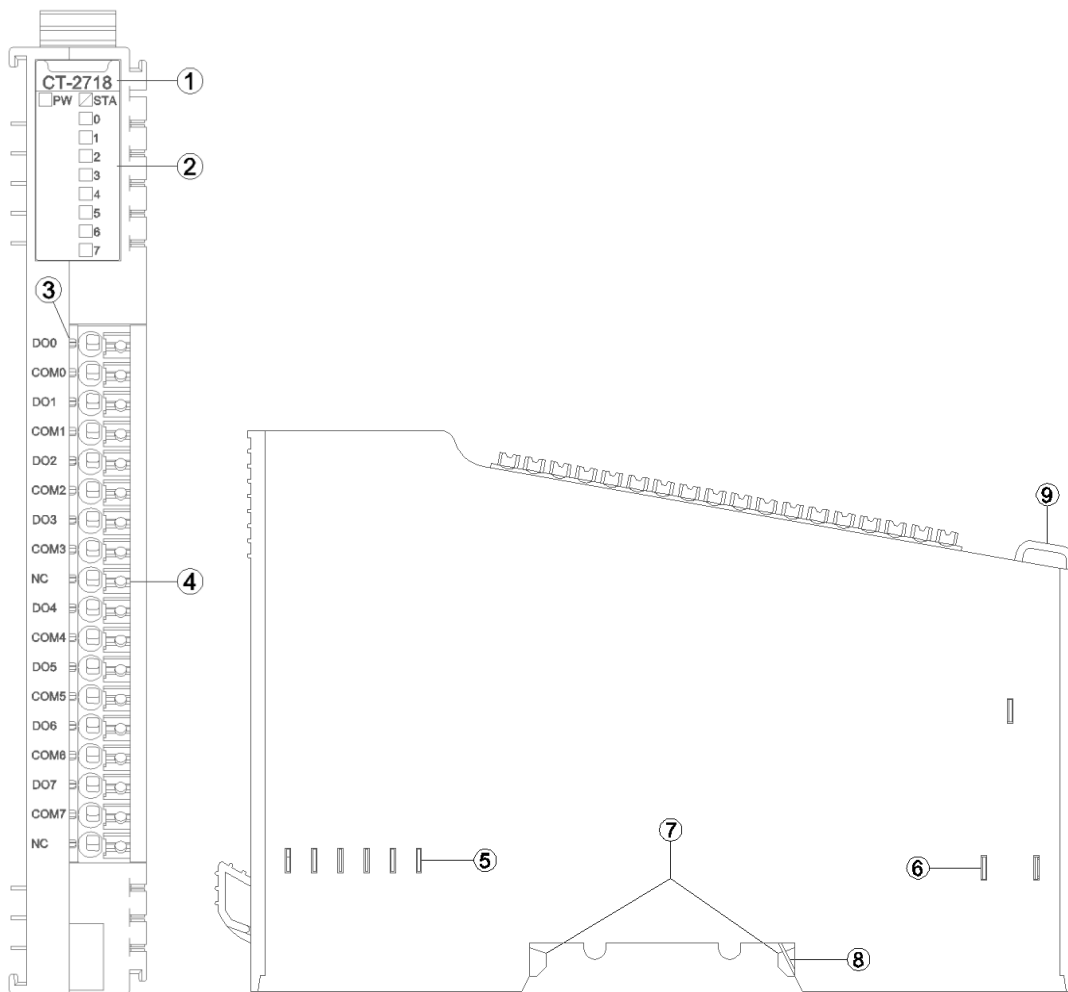
- ◆ 8-channel relay normally on output
- ◆ 8 LED channel indicators
- ◆ Low on resistance ( $\leq 100\text{m}\Omega$ )
- ◆ 250VAC/220VDC the max. switch voltage is 250VAC/220VDC

## 2 Technical Parameters

General parameters	
Power Consumption	Max.280mA @5.0Vdc
Isolation	I/O to internal bus: coil isolation(1600VAC)
Field Power	Not used
Wiring	I/O wiring: Max.1.5mm <sup>2</sup> (AWG 16)
Mounting Type	35mm DIN-Rail
Size	115*14*75mm
Weight	65g
Environment Specification	
Operational Temperature	-40~85°C
Operational Humidity	5%~95%(No Condensation)
Protection Class	IP20
Output Parameter	
Channel Number	8 channel relay normally on output
LED Indicator	8 channel output LED Indicator
Max. Switching Current	2A
Max. Switching Voltage	250VAC/220VDC
Max. Switching Power	62.5VA/60W
Contact Resistance	$\leq 100\text{m}\Omega$
Output Delay	ON to OFF:Max.3ms OFF to ON:Max.3ms
Mechanical Endurance	$1 \times 10^8$
Electricity	$1 \times 10^5$

Endurance	
Vibration	10Hz~55Hz 3.3mm Double vibration amplitude
Impact	Stability: 735m/s <sup>2</sup> Strength: 980m/s <sup>2</sup>

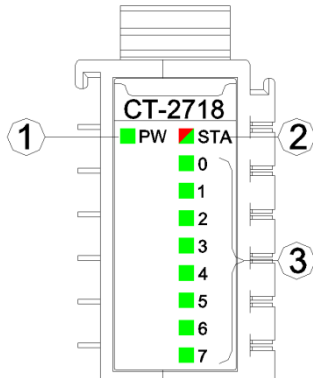
### 3 Hardware Interface



- ① Module Type
- ② State indicator
- ③ N/A
- ④ Wiring Terminal and identification
- ⑤ Internal Bus
- ⑥ Field Power
- ⑦ Buckle
- ⑧ Grounding Resilient Sheet

⑨ Fixed Wiring Harness

### 3.1 LED indicator definition



- ① Power LED indicator (green)
- ② Module State LED indicator (red/green)
- ③ Output channel LED indicator (green)

PW Power State (GREEN)	Definition
ON	Internal bus Power Normal
OFF	Internal bus Power Failure
STA Module State (RED/GREEN)	Definition
Green slow flash (2.5Hz)	Module internal bus is not started
Red slow flash (2.5Hz)	Module internal bus offline
ON (GREEN)	Operation normal
Flash(2.5Hz) (RED/GREEN)	Upgrading mode
Flash(10Hz) (RED/GREEN)	Firmware Update
Double Flash (RED)	Module Exception has been soft-restarted
0-7 channel LED indicator (GREEN)	Definition
ON	Output signal valid
OFF	Output signal invalid

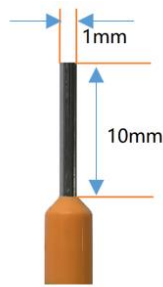
### 3.2 Terminal definition

Terminal Number	Definition	Description
1	DO0	Channel 0 output
2	COM0	Channel 0 Common Port
3	DO1	Channel 1 output
4	COM1	Channel 1 Common Port

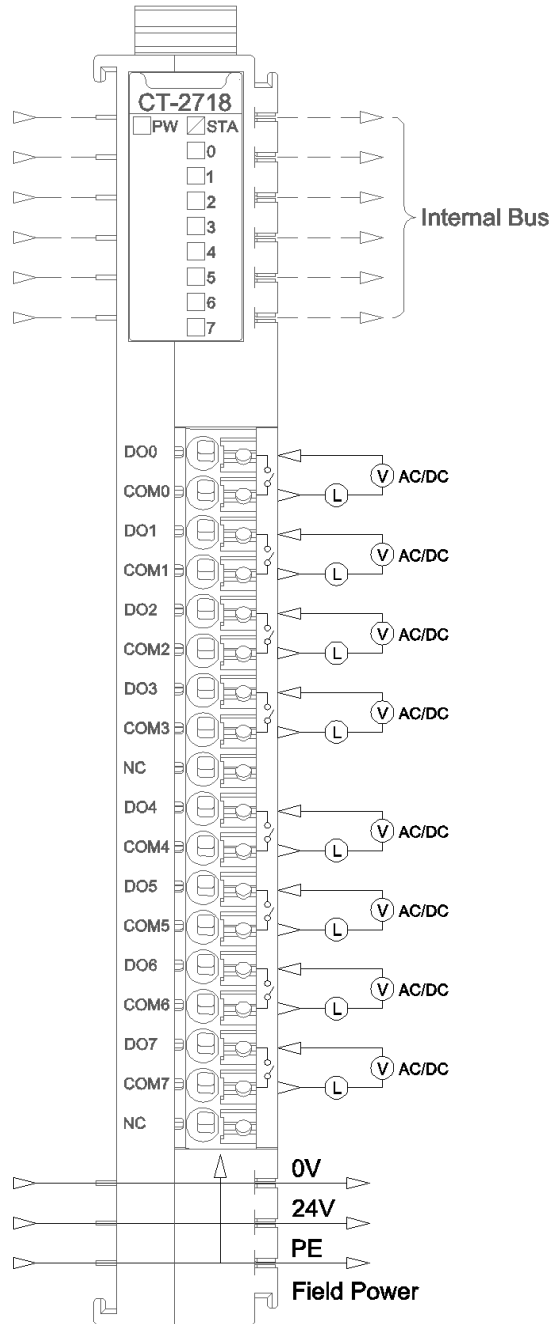
5	DO2	Channel 2 output
6	COM2	Channel 2 Common Port
7	DO3	Channel 3 output
8	COM3	Channel 3 Common Port
9	NC	Not Connected
10	DO4	Channel 4 output
11	COM4	Channel 4 Common Port
12	DO5	Channel 5 output
13	COM5	Channel 5 Common Port
14	DO6	Channel 6 output
15	COM6	Channel 6 Common Port
16	DO7	Channel 7 output
17	COM7	Channel 7 Common Port
18	NC	Not Connected

It is recommended to use cables with cores smaller than 1mm ?

The cold-pressed terminal parameters are as follows:



## 4 Wiring



## 5 Process data definition

Output Data								
Bit No	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Byte 0	DO Ch#7	DO Ch#6	DO Ch#5	DO Ch#4	DO Ch#3	DO Ch#2	DO Ch#1	DO Ch#0

Data description:

**DO Ch#(0-7):** When the bit is 1, the output signal of corresponding channel is effective and the output contact of relay is closed. When the bit is 0, the output is invalid and the relay contact is disconnected.

0: The output signal is invalid

1: The output signal is valid

## 6 Configuration parameters definition

Configuration parameters								
Bit No	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Byte 0	Fault Action for Output Ch#7	Fault Action for Output Ch#6	Fault Action for Output Ch#5	Fault Action for Output Ch#4	Fault Action for Output Ch#3	Fault Action for Output Ch#2	Fault Action for Output Ch#1	Fault Action for Output Ch#0
Byte 1	Fault Value for Output Ch#7	Fault Value for Output Ch#6	Fault Value for Output Ch#5	Fault Value for Output Ch#4	Fault Value for Output Ch#3	Fault Value for Output Ch#2	Fault Value for Output Ch#1	Fault Value for Output Ch#0

Data description:

**Fault Action for Output Ch#(0-7):** Fault output mode. When IO module detects that internal bus communication is failed and enters offline mode, the output data will be processed in this mode. (Default: 0)

0: Hold the last output state.

1: Output fault value

**Fault Value for Output Ch#(0-7):** When the fault output mode is 1, this bit would set the fault output value, and when the internal bus of IO module is offline, this setting value will be output. (Default: 0)

0: Output low level.

1: Output high level.

### A Dimension drawing

