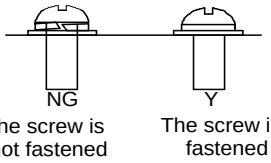

Fig 4.9 Screw installation diagram

4.4 Standard wiring of control circuit

4.4.1 Wiring diagram of basic control circuit

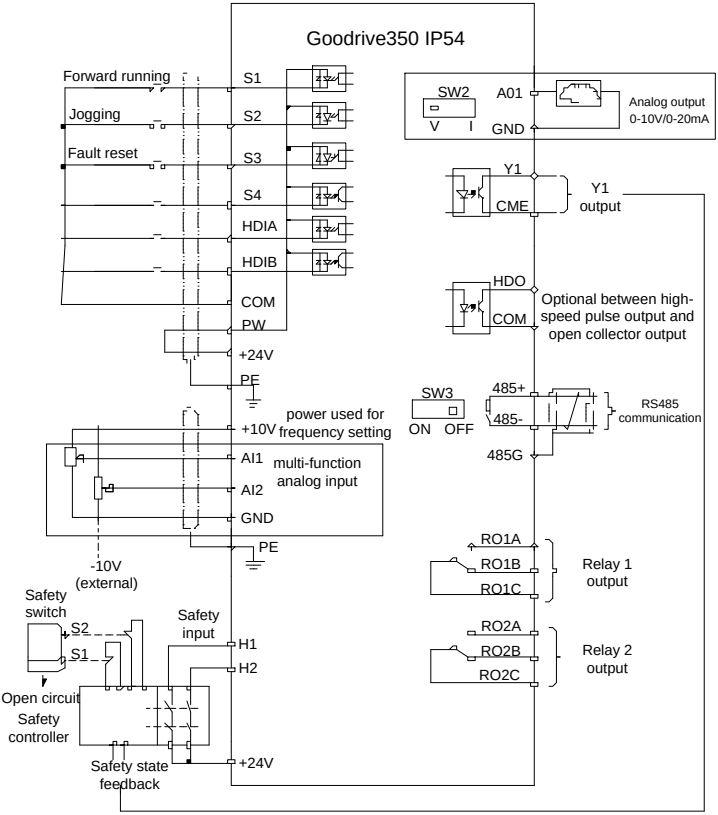

Fig 4.10 Wiring diagram of control circuit

Terminal name	Instruction
+10V	The inverter provides +10.5V power
AI1 AI2	1. Input range: AI1 voltage/current can choose 0–10/ 0–20mA; AI2: -10V–+10V voltage;

Terminal name	Instruction	
	2. Input impedance: 20kΩ during voltage input; 250Ω during current input; 3. AI1 voltage or current input is set by P05.50; 4. Resolution ratio: When 10V corresponds to 50Hz, the min. resolution ratio is 5mV; 5. 25°C, When input above 5V or 10mA, the error is ±0.5%	
GND	+10.5V reference zero potential	
AO1	1. Output range: 0–10V voltage or 0–20mA current 2. Voltage or current output is set by toggle switch SW2; 3. 25°C, when input above 5V or 10mA, the error is ±0.5%.	
RO1A RO1B RO1C	RO1 relay output; RO1A is NO, RO1B is NC, RO1C is common port Contact capacity: 3A/AC250V, 1A/DC30V	
RO2A RO2B RO2C	RO2 relay output; RO2A is NO, RO2B is NC, RO2C is common port Contact capacity: 3A/AC250V, 1A/DC30V	
HDO	1. Switch capacity: 200mA/30V; 2. Range of output frequency: 0–50kHz 3. Duty ratio: 50%	
COM	Common port of +24V	
CME	Common port of open collector output; short connected to COM by default	
Y1	1. Switch capacity: 200mA/30V; 2. Range of output frequency: 0–1kHz	
485+ 485-	485 communication port, 485 differential signal port and standard 485 communication interface should use twisted shielded pair; the 120ohm terminal matching resistor of 485 communication is connected by toggle switch SW3.	
PE	Grounding terminal	
PW	Provide input digital working power from external to internal; Voltage range: 12–24V	
24V	The inverter provides user power; the max. output current is 200mA	
COM	Common port of +24V	
S1	Digital input 1	1. Internal impedance: 3.3kΩ 2. Accept 12–30V voltage input 3. This terminal is bi-directional input terminal and supports NPN/PNP connection modes 4. Max. input frequency: 1kHz 5. All are programmable digital input terminals, users can set the terminal function via function codes
S2	Digital input 2	
S3	Digital input 3	
S4	Digital input 4	
HDIA	Besides S1–S4 functions, it can also act as high frequency pulse input channel	