

VER 1.2

Technical Manual

DS-CLS9-FRS4

Table of Contents



Click to return to table of contents

1. Main Specification.....	3
2. Connector Specification Table.....	4
2.1 CN1 (Power & Motor).....	4
2.2 CN2 (Encoder IN).....	4
2.3 CN3 (I/O)	4
2.4 CN4 (IN) / CN5 (OUT) (RS485)	5
3. Input Circuit Diagram.....	5
3.1 Command Pulse Input Circuit (Differential Drive)	5
3.2 Command Pulse Input Circuit (Open Collector)	5
3.3 Sensor, Digital Input Circuit (Contact)	6
3.4 Sensor, Digital Input Circuit (Collector Output)	6
4. Output Circuit Diagram.....	6
4.1 Digital Output Circuit (Relay Connection)	6
4.2 Digital Output Circuit (Opto-Coupler Connection)	7
4.3 Differential Output Circuit (Encoder Output)	7
5. Pulse & Direction Input Sequence Diagram.....	8
6. Indicator Light.....	8
6.1 Status Indication.....	8
6.2 Error Indication.....	9
7. Dimension (mm)	9
8. Control Parameter.....	10
8.1 Controller Basic Status (Class 01).....	10
8.2 Basic Parameter Setting (Class 02).....	11
8.3 Closed-Loop Parameter Setting (Class 04)	12
8.4 Control Parameters (Class 05)	12
8.5 Input Block Designation (Class 06)	14
8.6 Output Block Specification (Class 07)	15
9. In the GUI Program.....	16
10. Brake Using Method.....	19

*Please note that when the closed-loop drive is connected with the motor, it is necessary to correctly connect the phase sequence of the motor and the encoder.

Otherwise it will cause an alarm or the motor can not run. Before connecting with the motor, please carefully confirm whether the motor model is consistent with the model of the drive nameplate.

Please be sure to do the following work before turning on the power.

1. Main Specification

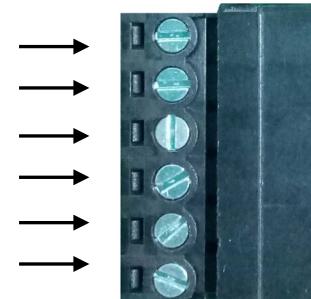


Project	Content	Remarks
Model	DS-CLS9-FRS4	
power supply	DC 24V~48V ±10%	
Rated output current	DS-CLS9-FRS4 3.0A (0 -peak)	Continuous current
Maximum output current	DS-CLS9-FRS4 4.5A (0 -peak)	Instantaneous current
Control object motor	Encoder 2-phase bipolar stepper motor	
Drive mode	PWM constant current drive	
I/O	Input <ul style="list-style-type: none"> • Pulse, direction input (configurable as digital input) • Digital input 5 • Encoder input (A, B, Z) Output <ul style="list-style-type: none"> • 4 digital outputs • Coded signal output (differential A, B, Z) 	The rest of the input/output can be freely configured via communication, except that the encoder output is fixed.
Digital input details	/SV ON (Servo On) /RESET (alarm reset) /START (motor start/stop) /JOG (motor jog) /HOME (zero point)	
Digital output details	/IN POTISION /ALARM	
LED indication	Status, fault	
communication I/F	RS485, up to 32 nodes	MODBUS RTU protocol, baud rate: 19200bps (default) or according to the agreement
Control Method	Position control mode	According to pulse positioning, according to RS485 communication positioning
Dimensions (mm)	134 (L) ×77 (W) ×34 (H)	Without terminal block
weight	About 500g	Without terminal block
Operating temperature/humidity	0~45°C, 85%RH or less	Prevent condensation
Storage temperature	0~85°C, 85% or less	Prevent condensation
Ambient gas	Prevent corrosive gases	

2. Connector Specification Table

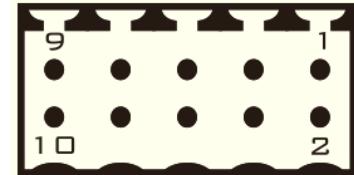
2.1 CN1 (Power & Motor)

Pin.	Signal name
6	A+
5	A-
4	B+
3	B-
2	GND
1	V+ (DC24V or 48V)



2.2 CN2 (Encoder IN)

Pin.	Signal name	Pin.	Signal name
1	A+	2	A-
3	B+	4	B-
5	Z+	6	Z-
7	+5V	8	0V
9	FG	10	NC



2.3 CN3 (I/O)

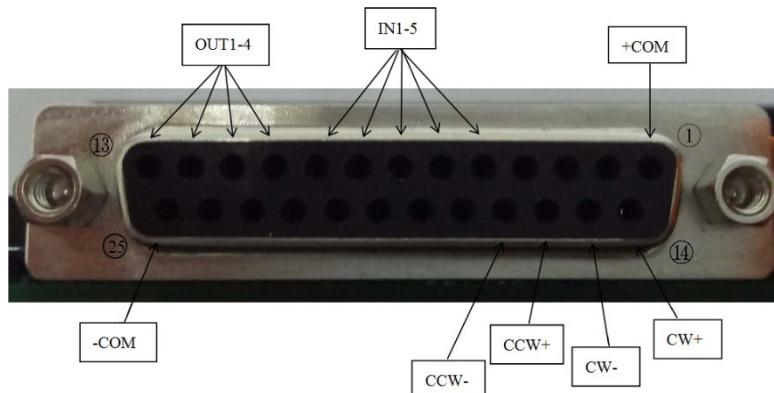


Notes

18-23 feet are encoder output {differential output}, optional, please specify when ordering

Pin.	Signal name						
1	+COM(24V)	7	IN3	14	CW+	20	Encoder B+
2	NC	8	IN4	15	CW-	21	Encoder B-
3	NC	9	IN5	16	CCW+	22	Encoder Z+
4	NC	10	OUT1	17	CCW-	23	Encoder Z-
5	IN1	11	OUT2	18	Encoder A+	24	FG
6	IN2	12	OUT3	19	Encoder A-	25	-COM (0V)
		13	OUT4				

See the position of each pin from the perspective of the insertion surface



2.4 CN4 (IN) / CN5 (OUT) (RS485)

Pin.	Signal name	Pin.	Signal name
1	NC	2	GND
3	A Input (RS485)	4	NC
5	NC	6	B Input (RS485)
7	Terminating resistor (CN5)	8	Terminating resistor (CN5)

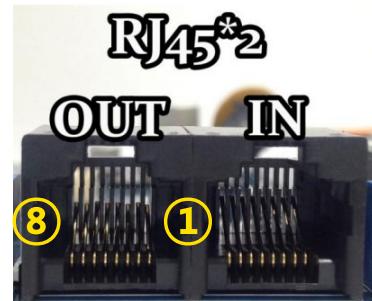
Standard : RJ45 Type × 2

See the position of each pin in a face-to-face view



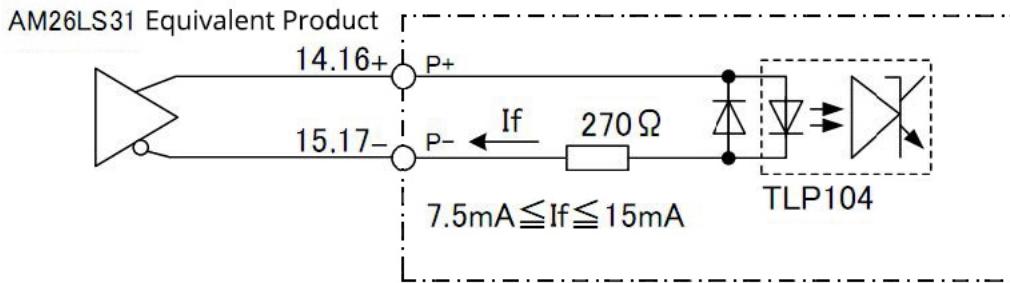
Notes

When using multiple serial connections, the terminal resistance is the short-circuit when the last CN5 pins 3 and 8 are short-circuited, and the 6-pin and 7-pin are short-circuited.
Remark :
CN4 does not contain terminating resistor

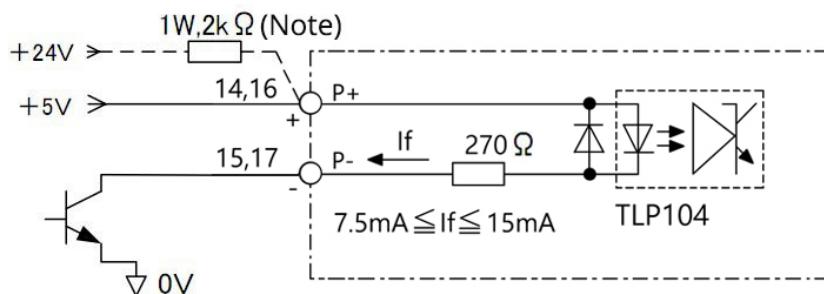


3. Input Circuit Diagram

3.1 Command Pulse Input Circuit (Differential Drive)



3.2 Command Pulse Input Circuit (Open Collector)

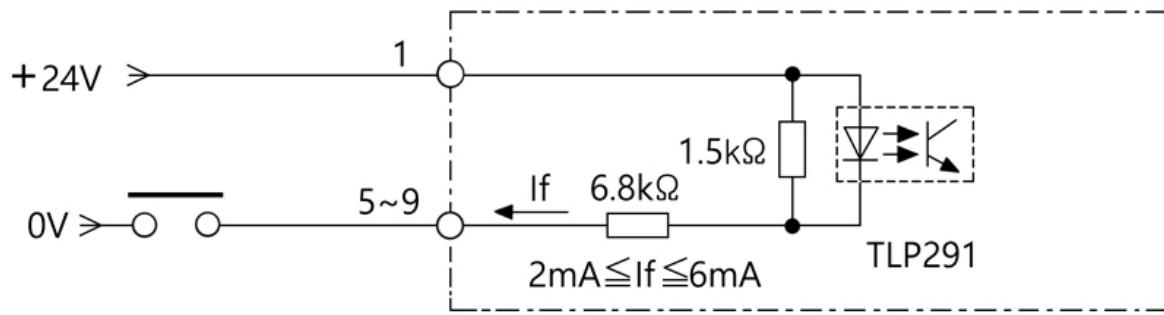


Notes

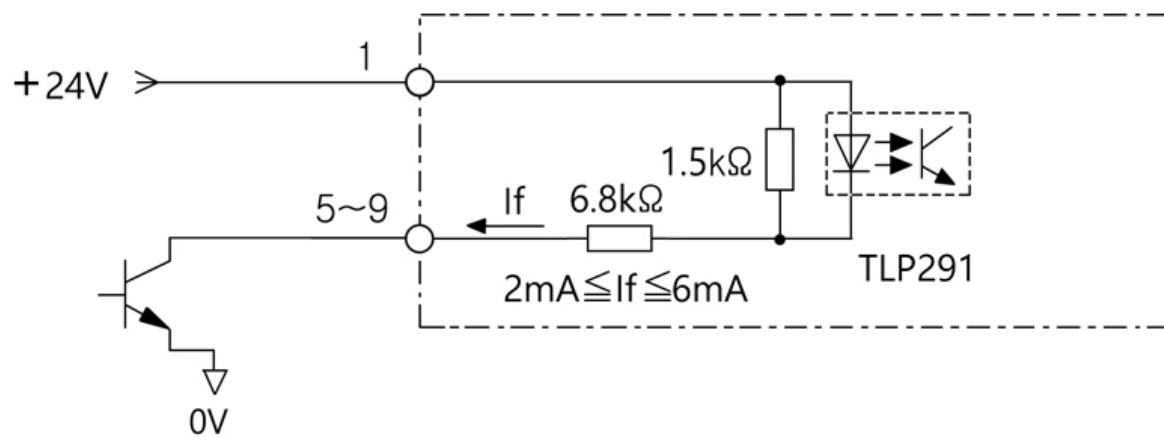
This product is compatible with +5V/+24V Signal an it does not need current limit resistor when 24V power input.



3.3 Sensor, Digital Input Circuit (Contact)

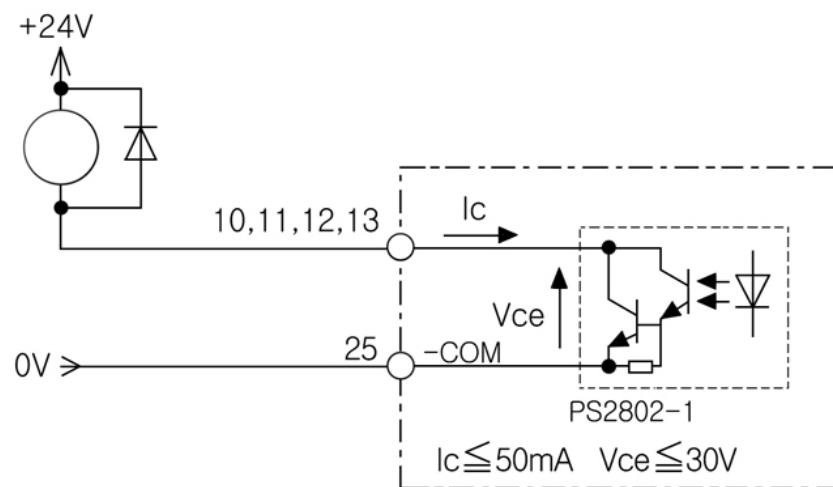


3.4 Sensor, Digital Input Circuit (Collector Output)



4. Output Circuit Diagram

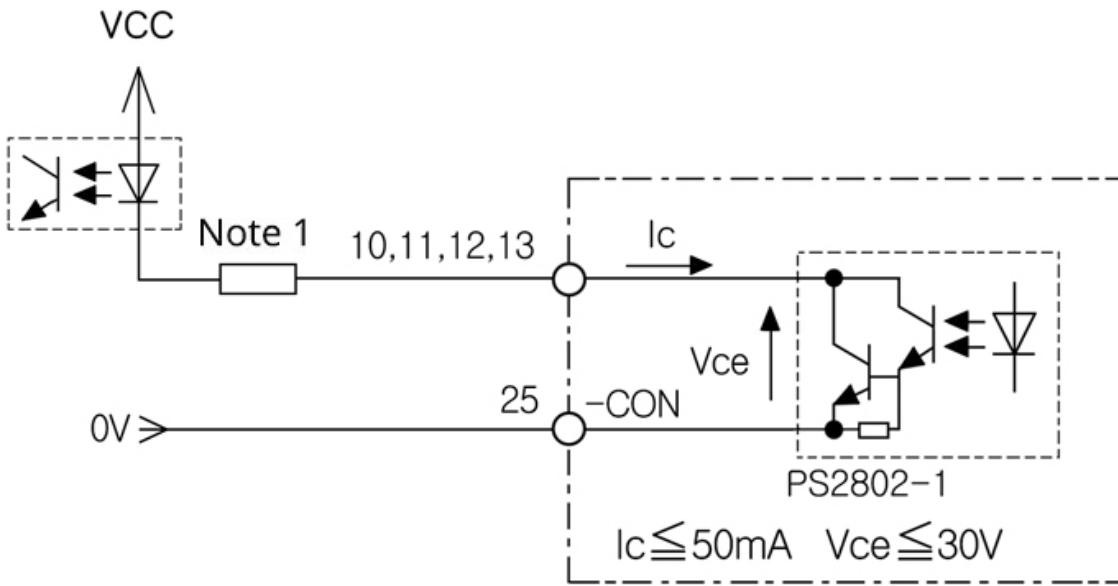
4.1 Digital Output Circuit (Relay Connection)



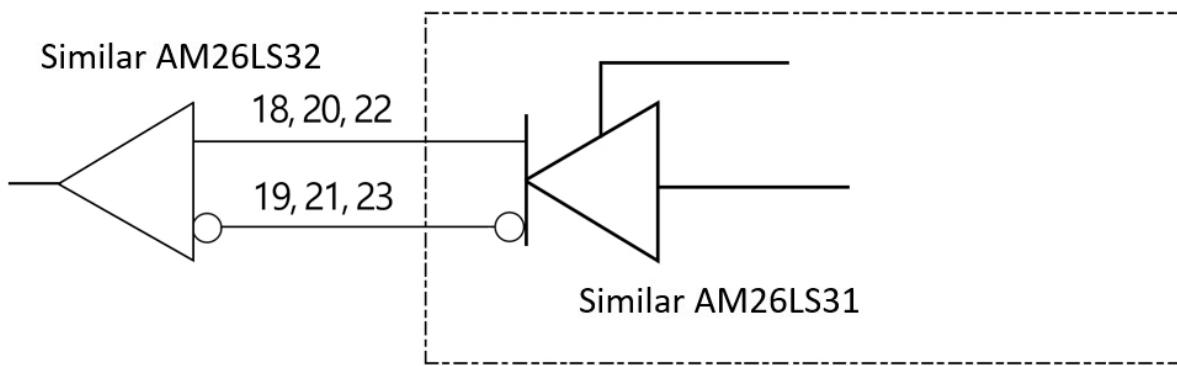
Notes

When connects relay, diodes at both ends of relay (similar to IN4007) are required.

4.2 Digital Output Circuit (Opto-Coupler Connection)



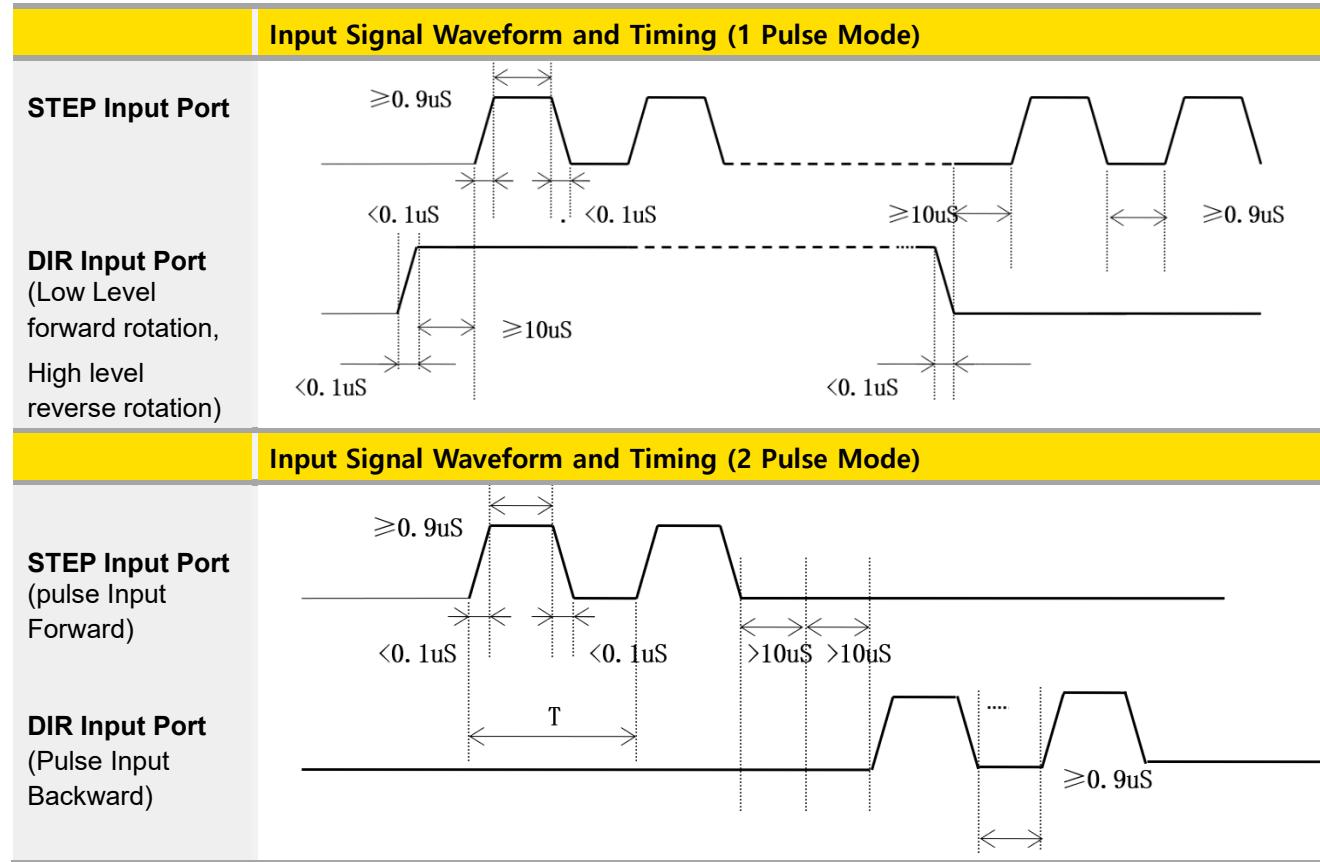
4.3 Differential Output Circuit (Encoder Output)



Caution

There is no opto-coupler isolation for encoder output. Before power on, please confirm whether the wiring is correct and there is short circuit. So as to avoid any damaging the upper computer and driver by introducing the 24V power supply on the CN3 port.

5. Pulse & Direction Input Sequence Diagram



Notes

When the driver is set to one-pulse control, CW is the STEP pulse input port and CCW is the DIR (direction) input port.

6. Indicator Light

6.1 Status Indication

Status function	Green light	Communication code	Description
Stopping	flicker	2	On enable, motor phase lock but motor is not running
Running	Constantly bright	3	Drive is running
Enable disconnection	flicker	1	Enable disconnection, motor can be free

6.2 Error Indication

Alarm function	Red light	Communication code	Description
Motor overcurrent	Flashing once	10	Motor phase current overcurrent or driver failure
Motor phase loss	2 flashes	11	Motor wiring is abnormal
Motor overcurrent	5 flashes	12	Exceeded the set number of compensations
Undervoltage	4 flashes	13	Power input is less than 18V
Overpressure	3 flashes	14	Power input is greater than 60V
Other alarm	Other	Other	

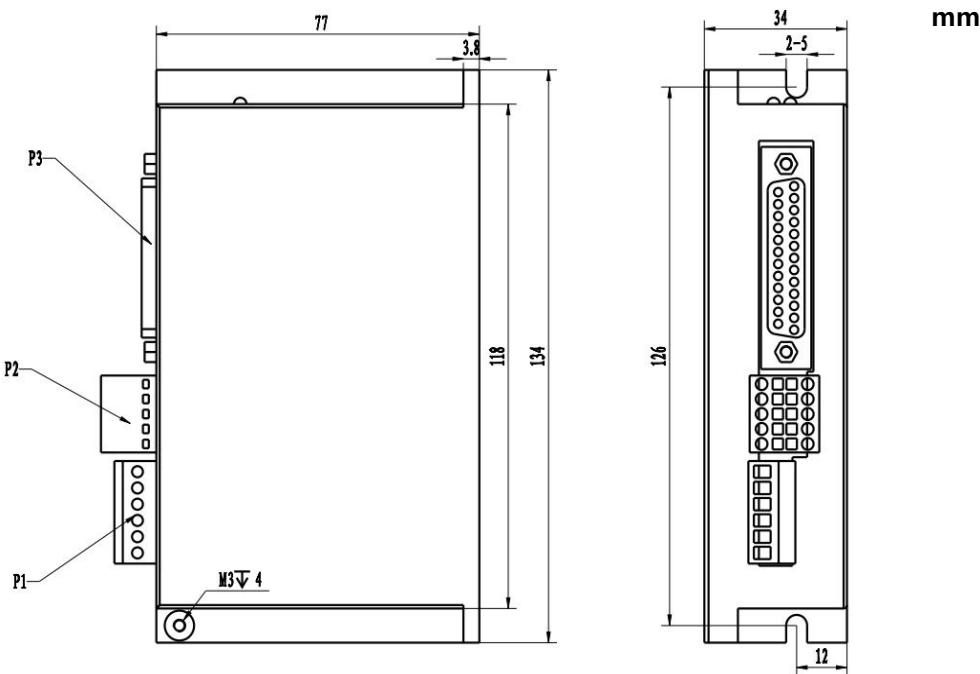


Method

Complete the corresponding blinking (0.5 second low level, 0.5 second high level) times in different states, complete 2 seconds high level, and then recycle.

Warning function	Red light	Communication code	Description
Location out of tolerance	Constantly bright	25	Position deviation is greater than the set value

7. Dimensions

C


8. Control Parameter

C



Notes

Informal version of communication parameters, some parameters are fixed and not open.

8.1 Controller Basic Status (Class 01)

Adr	word	content	Elaborate	Range / unit										
0100	1	Motor current	Motor real-time current value	0.1%A										
0101	1	Input voltage	Current input voltage	1%V										
0104	2	Set up segmentation	Set segmentation value	ppr										
0106	1	Pulse mode	1 is pulse + direction mode, 2 is double pulse mode	1-2										
0108	1	error code	Code at the time of alarm, see 1-2 for content, and display "0" for no fault	-										
0109	1	Operating status	Drive running status, see 1-1	-										
0110	1	hardware version	Drive hardware version	-										
0111	1	Software version	Drive software version	-										
0117	2	current position	target location	pulse										
0119	1	Actual speed display	-	0.01rps										
0126	2	Actual location	Run real-time location	pulse										
0174	1	IO select multiple run paragraphs	-	-										
0176	1	Multi-segment writing error No	-	-										
0178	1	Multi-stage operation	-	-										
0135	1	Input port status	<table border="1"> <tr> <td>Data bits</td> <td>Bit 7</td> <td>.....</td> <td>Bit 1</td> <td>Bit 0</td> </tr> <tr> <td>Input port</td> <td>IN 7</td> <td>.....</td> <td>IN 2</td> <td>IN 1</td> </tr> </table>	Data bits	Bit 7	Bit 1	Bit 0	Input port	IN 7	IN 2	IN 1	
Data bits	Bit 7	Bit 1	Bit 0										
Input port	IN 7	IN 2	IN 1										
0136	1	Output port status	<table border="1"> <tr> <td>Data bits</td> <td>Bit 3</td> <td>.....</td> <td>Bit 2</td> <td>Bit 0</td> </tr> <tr> <td>Output port</td> <td>Out 4</td> <td>Out 3</td> <td>Out 2</td> <td>Out 1</td> </tr> </table>	Data bits	Bit 3	Bit 2	Bit 0	Output port	Out 4	Out 3	Out 2	Out 1	
Data bits	Bit 3	Bit 2	Bit 0										
Output port	Out 4	Out 3	Out 2	Out 1										

8.2 Basic Parameter Setting (Class 02)

Adr	word	content	Elaborate	Range / unit
0201	1	Motor direction switching	Select the motor running direction Set when the motor is stopped 1: user parameter reset 2: Clear the alarm (except for some hardware failure alarms) 3: drive restart	0~1
0206	1	User instructions	2: Clear the alarm (except for some hardware failure alarms) 3: drive restart	0~5
0213	1	Half-flow ratio	Stop current ratio (effective in open loop mode)	10%~120%
0217	1	Motor control mode	0: open loop 1: closed loop Default: 1 *After changing the parameters, the power must have to turn off and on.	0~1
0224	1	Angular filtering	The smaller the value, the smoother the motor runs, but the higher the delay	1~700
0234	1	Digital filtering	Filter coefficient of input pulse. The larger the value, the lower the input frequency response.	1~15
0241	1	Input Current	Set current	100~4500 0.1A~4.5A
0242	2	Set up segmentation	Pulses per revolution	200~102400 ppr
0244	1	Pulse mode	1: Pulse + direction mode 2: double pulse mode	1~2
0245	1	Half-flow time	Delay time when the motor stops running and enters half flow state (open loop mode is valid)	1~32767 ms
0283	1	Percentage of positive torque set value	In torque mode Torque = Input Current (0241) * Percentage (0283) Forward operation to set torque output Default value: 50	0~120 %
0284	1	Percentage of reverse torque set value	In torque mode Torque = Input Current (0241) * Percentage (0284) When running in reverse, to set the torque output Default value: 50	0~120 %
0285	1	Percentage of return to torque origin set value	In torque mode Torque = Input Current (0241) * Percentage (0285) When the torque force returns to the origin, the torque output is set Default value: 80	10~120 %
0286	1	Moment detection time	In torque mode Torque reaches detection time Default value: 10	1~10000 ms
0287	1	Torque mode running speed	In torque mode Run forward at set speed and torsion comes to a stop 0: external pulse 1: internal pulse 5: Torque mode 6: Position down mode Default: 0	-5000~5000 0.01~20rps
0296	1	Selection of operating mode	Note: After the function is modified, you need to power off and restart	0~1
0298	1	mailing address	Default: 1	1~255
0299	2	Communication baud rate	Default: 19200	1600~115200

8.3 Closed-Loop Parameter Setting (Class 04)

Adr	word	content	Elaborate	Range / unit
0246	1	Encoder resolution	Resolution = number of encoder lines x 4	200~65535
0247	2	In-place pulse width	Reach the target position and close the distance, output the signal in place Default: 0	1~1000 Encoder resolution
0251	1	Speed loop Kp	Speed loop Kp	0~30000
0252	1	Speed loop Ki	Speed loop Ki	0~30000
0255	1	Position loop Kp	Position loop Kp	0~30000
0258	1	Position tolerance threshold	In encoder resolution	0~30000

8.4 Control Parameters (Class 05)

Adr	word	content	Elaborate	Range / unit
0301	1	Starting frequency	Default:100	1~2000 0.01~20 rps
0302	1	Stop frequency	Default:100	1~2000 0.01~20 rps
0303	1	Acceleration	Default:100	5~10000 rps ²
0304	1	deceleration	Default:100	5~10000 rps ²
0305	1	Return to origin mode	Return to origin mode, 0: clockwise return to origin 1: counterclockwise to the origin 2: Positive limit back to the origin 3: inverse limit back to the origin 6: Forward torque back to the origin 7: reverse torque back to the origin 8: Clockwise Z pulse returns to the origin 9: Counterclockwise Z pulse back to the origin Default value: 0	0~1
0306	1	Fixed-length running speed	Default: 1000	1~5000 0.01~50rps
0307	1	Speed mode running speed	In speed mode, the running direction is consistent with the speed direction Default: 1000	-5000~5000 -50~50rps
0308	1	Jog running speed	Default: 1000	1~5000 0.01~50rps
0309	1	Home speed	Default: 1000	1~5000 0.01~50rps
0310	1	Creeping speed	Running speed after hitting the origin Default: 1000	1~5000 0.01~50rps -2000000000~ 2000000000 pulse
0311	2	Home offset	Default: 0	

			Running stroke													
0313	2	Output pulse	Absolute position mode: run to the specified position Relative position mode: travel setting offset stroke Default: 0	-2000000000~ 2000000000 pulse												
0317	2	Positive soft limit	Default: 2000000000 Note: It is invalid during return to origin	-2000000000~ 2000000000 pulse												
0319	2	Negative soft limit	Default: -2000000000 Note: It is invalid during return to origin	-2000000000~ 2000000000 pulse												
0321	2	Set current position	Default: 0	-2000000000~ 2000000000 pulse												
0323	1	control commands	0: empty 1: Absolute running, running to the set distance, running direction is determined by distance plus or minus, speed plus or minus value is invalid, it is effective to modify target position during running 2: Relative running, running at a set distance and running speed. The running direction is determined by the distance plus or minus. The speed plus or minus value is invalid. Modifying the movement distance during running is invalid 3: Speed mode 4: Jog forward 5: Reverse jog 6: deceleration and stop 7: Emergency stop 8: Set the current position, which can only be set when the motor is stopped 12: Back to origin 13: Alarm clear 14: Multi-segment data verification 15: Multi-segment data storage 16: Multi-segment data starts 17: Multiple data pauses 18: End of multiple segments of data Default: 0	0~29												
0324	1	Internal control switch	<table border="1"> <tbody> <tr> <td>Bit 4</td><td>Bit 3</td><td></td></tr> <tr> <td>0</td><td>0</td><td>Communication command mode</td></tr> <tr> <td>0</td><td>1</td><td>Input signal command mode</td></tr> <tr> <td>1</td><td>0</td><td>Multi-segment program command mode (by input signal or communication)</td></tr> </tbody> </table> Default: Bit 4 =0 , Bit 3=0 communication command mode *After changing the parameters, the power must have to turn off and on.	Bit 4	Bit 3		0	0	Communication command mode	0	1	Input signal command mode	1	0	Multi-segment program command mode (by input signal or communication)	0-65535
Bit 4	Bit 3															
0	0	Communication command mode														
0	1	Input signal command mode														
1	0	Multi-segment program command mode (by input signal or communication)														
0327	1	Number of paragraphs	Default: 1	1~32												
0328	1	Multiple selection	Default: 0 Note: If IO port is configured with multi-segment selection function, IO configuration multi-segment selection is preferred	0~31												

8.5 Input Block Designation (Class 06)

Adr	word	content	Elaborate	Range/unit
0400	1	IN1 function selection	0: empty 1: Absolute running, running to the set distance, running direction is determined by distance plus or minus, speed plus or minus value is invalid, it is effective to modify target position during running 2: Relative running, running at a set distance and running speed. The running direction is determined by the distance plus or minus. The speed plus or minus value is invalid. Modifying the movement distance during running is invalid 3: Speed mode 4: Jog forward 5: Reverse jog 6: deceleration and stop 7: Emergency stop 8: Set the current position, which can only be set when the motor is stopped 9: positive limit 10: Negative limit 11: Origin signal 12: Back to origin 13: Alarm clear 14: Multi-segment data verification 15: Multi-segment data storage 16: Multi-segment data starts 17: Multiple data pauses 18: End of multiple segments of data 20: Enable 25: IO port configuration multi-stage selection Bit0 26: IO port configuration multi-stage selection Bit1 27: IO port configuration multi-stage selection Bit2 28: IO port configuration multi-stage selection Bit3 29: IO port configuration multi-stage selection Bit4 Default: 0	0~30
0401	1	IN2 function selection	The setting content is the same as IN1 (default value: 0)	0~30
0402	1	IN3 function selection	The setting content is the same as IN1 (default value: 0)	0~30
0403	1	IN4 function selection	The setting content is the same as IN1 (default value: 0)	0~30
0404	1	IN5 function selection	The setting content is the same as IN1 (default value: 0)	0~30
0405	1	IN6 Function selection (CCW port)	The setting content is the same as IN1 (default value: 0) (When external pulse, the port function is invalid)	0~30
0406	1	IN7 Function selection (CW port)	The setting content is the same as IN1 (default value: 0) (When external pulse, the port function is invalid)	0~30
0429	1	Universal digital input logic		
0410	1	Pseudo communication settingIN1	0: OFF (initial value 0) 1: ON (trigger the action of IN1 configuration)	0~1

0411	1	Pseudo communication settingIN2	0: OFF (initial value 0) 1: ON (trigger the action of IN2 configuration)	0~1
0412	1	Pseudo communication settingIN3	0: OFF (initial value 0) 1: ON (trigger the action of IN3 configuration)	0~1
0413	1	Pseudo communication settingIN4	0: OFF (initial value 0) 1: ON (trigger the action of IN4 configuration)	0~1
0414	1	Pseudo communication settingIN5	0: OFF (initial value 0) 1: ON (trigger the action of IN5 configuration)	0~1
0415	1	Pseudo communication settingIN6	0: OFF (initial value 0) 1: ON (triggers the action configured by IN6) (During external pulse, the function of the pseudo communication port is disabled)	0~1
0416	1	Pseudo communication settingIN7	0: OFF (initial value 0) 1: ON (trigger the action of IN7 configuration) (During external pulse, the function of the pseudo communication port is disabled)	0~1

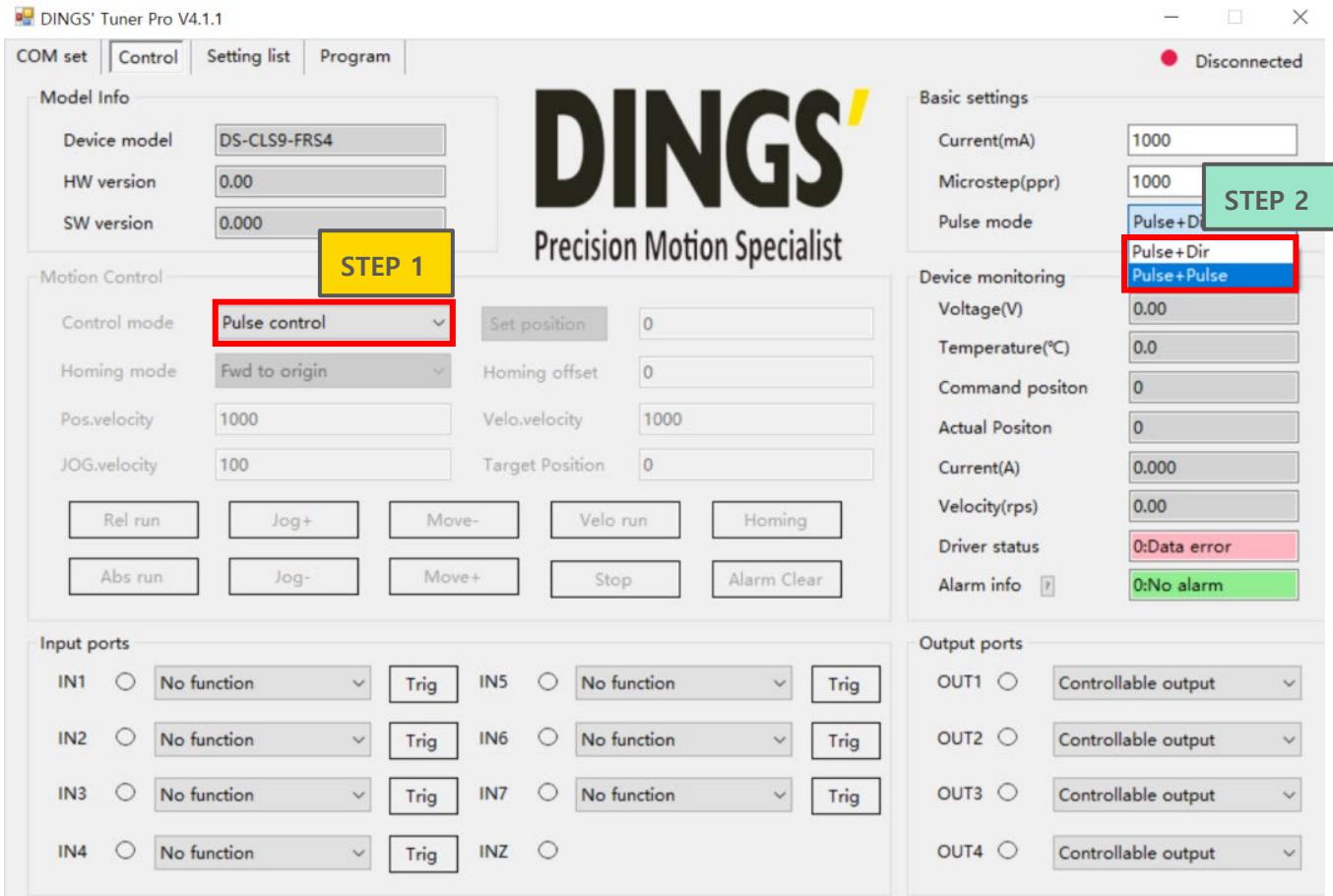
8.6 Output Block Specification (Class 07)

Adr	word	content	Elaborate	Range / unit										
0420	1	OUT1 function selection	100: universal port 101: Alarm output function: There is an output signal when there is no alarm, and there is no output signal when there is an alarm. 102: In place signal 103: Enable control output: There is an output signal when offline, and no output signal when enabled. (Default: 101)	100~104										
0421	1	OUT2 function selection	The setting content is the same as OUT 1 (default: 100)	100~104										
0422	1	OUT3 function selection	The setting content is the same as OUT 1 (default: 100)	100~104										
0423	1	OUT4 function selection	The setting content is the same as OUT 1 (default: 100)	100~104										
0428	1	Universal digital output control	Output port function selection <table border="1"> <tr> <td>Data bit</td> <td>Bit3</td> <td>Bit2</td> <td>Bit1</td> <td>Bit0</td> </tr> <tr> <td>Output port</td> <td>OUT4</td> <td>OUT3</td> <td>OUT2</td> <td>OUT1</td> </tr> </table>	Data bit	Bit3	Bit2	Bit1	Bit0	Output port	OUT4	OUT3	OUT2	OUT1	
Data bit	Bit3	Bit2	Bit1	Bit0										
Output port	OUT4	OUT3	OUT2	OUT1										
0430	1	Digital output logic	Corresponding output port logic <table border="1"> <tr> <td>Data bit</td> <td>Bit3</td> <td>Bit2</td> <td>Bit1</td> <td>Bit0</td> </tr> <tr> <td>Output port</td> <td>OUT4</td> <td>OUT3</td> <td>OUT2</td> <td>OUT1</td> </tr> </table>	Data bit	Bit3	Bit2	Bit1	Bit0	Output port	OUT4	OUT3	OUT2	OUT1	
Data bit	Bit3	Bit2	Bit1	Bit0										
Output port	OUT4	OUT3	OUT2	OUT1										

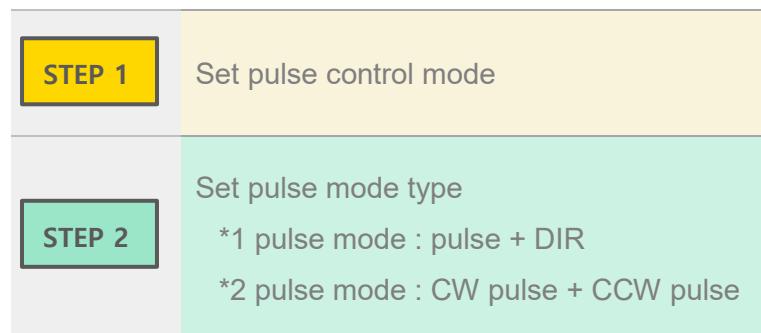
9. In the GUI Program

9.1 Pulse Mode Setting

9.1.1 Pulse mode setting in the [Control] tab



*In the [Control] tab, automatically saves parameters, if you make changes.



9.1.2 Pulse mode setting in the [Parameter List] tab

■ DINGS' Tuner Pro V4.1.1

COM set | Control | Setting list | Program | STEP 1

Category:

- 01: Basic settings**
- 02: Motor settings
- 03: Closed-loop settings
- 04: Motion settings
- 05: Input settings
- 06: Output settings

Description:

Control mode:
0:Pulse control;
1:Integrate control;

Addr	Name	Range	Actual Value	New Value
201	Direction switch	0 ~ 3	0	0
202	Pulse edge	0 ~ 1	0	0
213	Half current proportion	10 ~ 100	50	50
224	Smooth filter	0 ~ 700	50	50
234	Pulse filter	1 ~ 15	4	4
241	Current setting	100 ~ 4500	1000	1000
242	Microstep setting	200 ~ 102400	1000	1000
244	Pulse mode	1 ~ 2	1	1
245	Half current time	1 ~ 30000	200	200
296	Control mode	0 ~ 1	0	0
298	Station number	1 ~ 250	1	1
299	Baud rate	4800 ~ 115200	19200	19200

STEP 1	Add#296 Control mode 0 : Pulse control mode
---------------	--

STEP 2

Addr	Name	Range	Actual Value	New Value
201	Direction switch	0 ~ 3	0	0
202	Pulse edge	0 ~ 1	0	0
213	Half current proportion	10 ~ 100	50	50
224	Smooth filter	0 ~ 700	50	50
234	Pulse filter	1 ~ 15	4	4
241	Current setting	100 ~ 4500	1000	1000
242	Microstep setting	200 ~ 102400	1000	1000
244	Pulse mode	1 ~ 2	1	1
245	Half current time	1 ~ 30000	200	200
296	Control mode	0 ~ 1	0	0
298	Station number	1 ~ 250	1	1
299	Baud rate	4800 ~ 115200	19200	19200

STEP 2

Add#244 Pulse mode
1 : 1 Pulse mode [Pulse + Dir]
2 : 2 Pulse mode [CW Pulse + CCW Pulse]

STEP 3

Addr	Name	Range	Actual Value	New Value
201	Direction switch	0 ~ 3	0	0
202	Pulse edge	0 ~ 1	0	0
213	Half current proportion	10 ~ 100	50	50
224	Smooth filter	0 ~ 700	50	50
234	Pulse filter	1 ~ 15	4	4
241	Current setting	100 ~ 4500	1000	1000
242	Microstep setting	200 ~ 102400	1000	1000
244	Pulse mode	1 ~ 2	1	1
245	Half current time	1 ~ 30000	200	200
296	Control mode	0 ~ 1	0	0
298	Station number	1 ~ 250	1	1
299	Baud rate	4800 ~ 115200	19200	19200

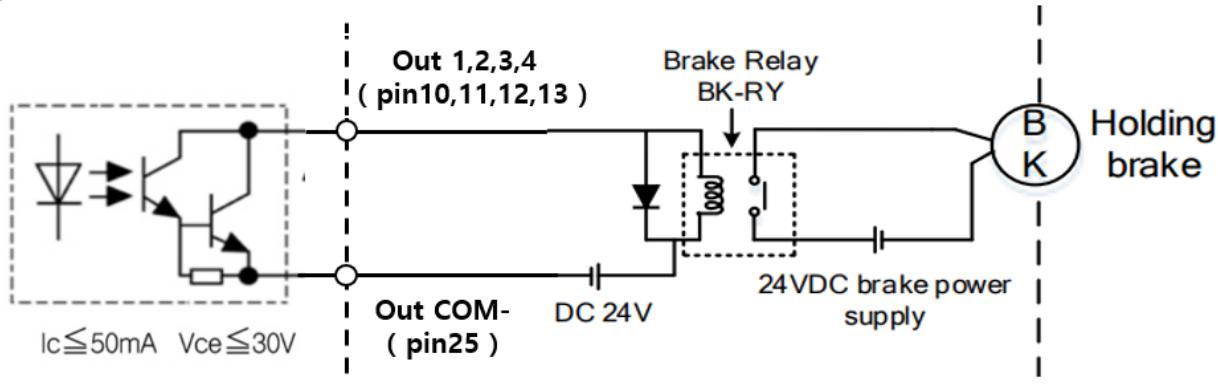
STEP 3

Click [Write] button, Parameters saves

10. Brake Using Method

10.1 Brake Output Circuit Diagram

Driver Status	Driver OUT Sig.	Motor Status
Servo ON	ON	Motor Run
Servo Off or Alarm	OFF	Motor Braking



10.2 Output Port Parameter Setting

ComSet | Control | Parameter | Programming | Disconnected

Parameter category: 01: Basic para 02: Motor para 03: Close-loop para 04: Controller para 05: Input ports para 06: Output ports para

Parameter	Value	Parameter range	Act Value	Edit Value
420 OUT1 function	100~104	100	101	
421 OUT2 function	100~104	100	103	
422 OUT3 function	100~104	100	100	
423 OUT4 function	100~104	100	100	
428 Controllable output set	0~255	0	0	
430 Output port logic	0~255	0	0	

STEP 1 STEP 2

Read from Device Write to Device Reset parameter Export Import

Parameter description:

100:Controllable output, controlled by addr-428;
101:Alarm out:No output when alarm occurs;
102:In-position indication;
103:Servo-ON Indication;
104:Not Supported.

STEP 1 Select brake output port
OUT1 -> pin10
OUT2 -> pin11
OUT3 -> pin 12
OUT4 -> pin13
Please choose one of OUT and assign pin accordingly

STEP 2 Set output function
103 : Servo-ON

ComSet | Control | Parameter List | Programming | Disconnected

Parameter category:

- 01: Basic para
- 02: Motor para
- 03: Close-loop para
- 04: Controller para
- 05: Input ports para
- 06: Output ports para**

Read from Device

Write to Device

Reset parameter

Export Import

Parameter description:
Output port logic,range:0~15 in decimal, mapping OUT[4:1]:0000~1111 in binary.]

Addr	Name	Parameter range	Act Value	Edit Value
420	OUT1 function	100~104	100	101
421	OUT2 function	100~104	100	103
422	OUT3 function	100~104	100	100
423	OUT4 function	100~104	100	100
428	Controllable output set	0~255	0	0
430	Output port logic	0~255	0	2

STEP 3

STEP 3

Set output port logic Bit

Output port > Value
 Out1(Bit0) > 1
 Out2 (Bit1) > 2
 Out3 (Bit2) > 4
 Out4 (Bit3) > 8

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