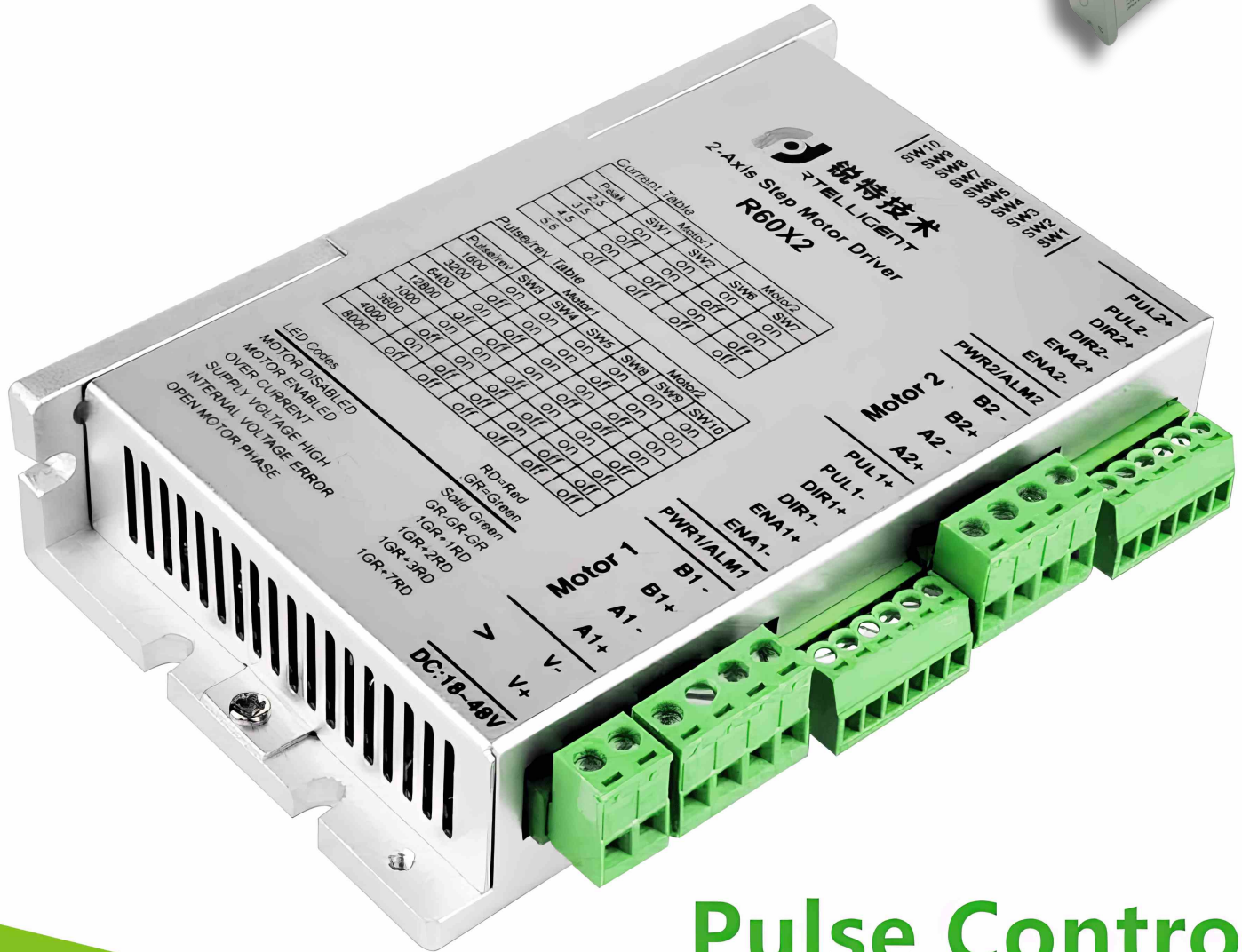


Driver Dublu Ax Rteelligent Nema 17 23 24 R60X2

RTELLIGENT



Pulse Control

R60X2

Nema 23 2 axis driver



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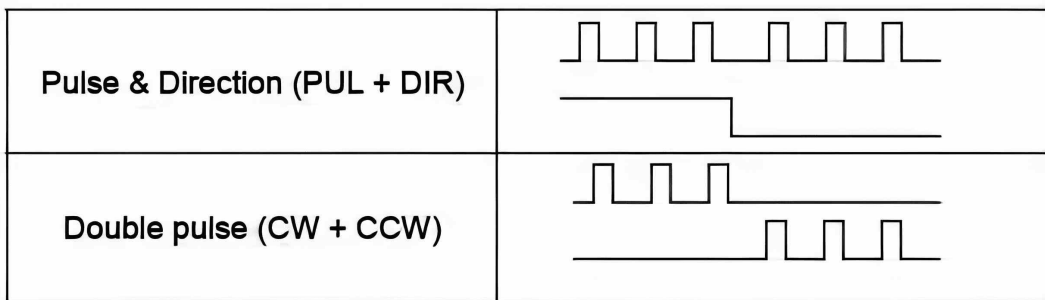
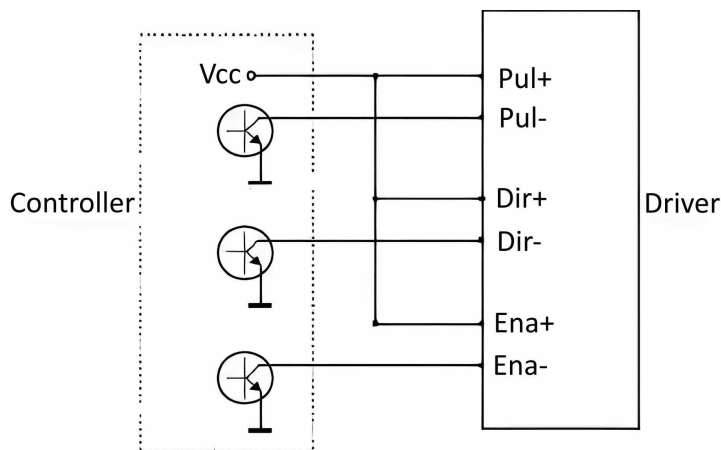
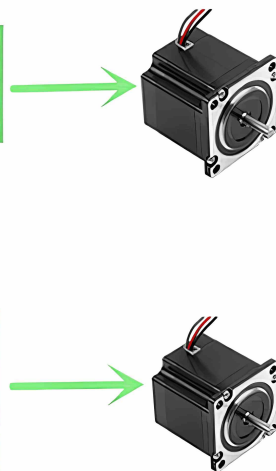
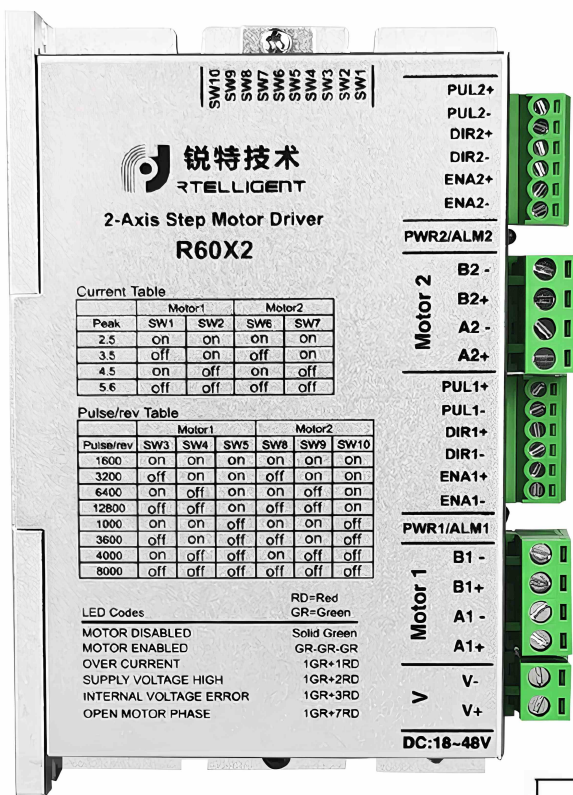


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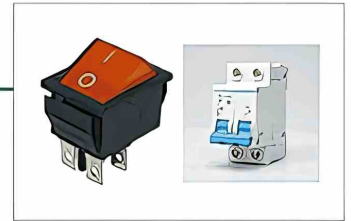
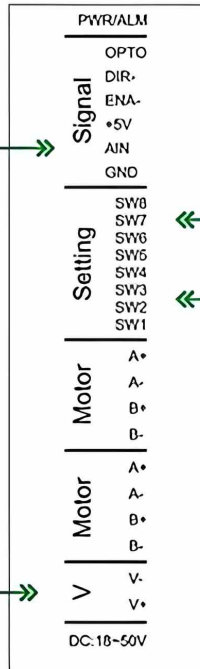
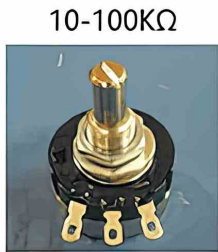
Environmental requirement

Item	Rtelligent R60X2
Installation environment	Avoid dust, oil and corrosive environment
Vibration	0.5G (4.9m/s ²) Max
Operating temperature/humidity	0°C ~ 45°C / 90% RH or less (no condensation)
Storage and transportation temperature	-10°C ~ 70°C
Cooling	Natural cooling / away from the heat source
Waterproof grade	IP54

Power supply	24 – 48 VDC
Output current	Up to 5.6 amps (peak)
Current control	PID current control algorithm
Segment settings	DIP switch setting, 8 options
Speed range	Use the suitable stepper motor, up to 3000rpm
Resonance suppression	Automatically calculate the resonance point and inhibit the IF vibration
Parameter adaptation	Automatically detect the motor parameter when driver initialize, optimize the controlling performance
Pulse mode	Support pulse + direction, double pulse
Pulse filtering	2MHz digital signal filter
Idle current	Automatically halve the current after the motor stopping



Connection Description of drive

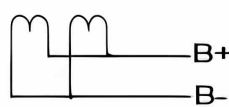
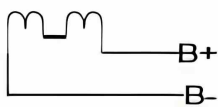
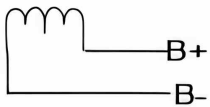
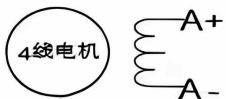


Switching signal: 3.3~24V

Set the speed level

Set the current

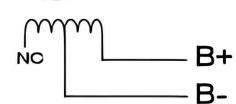
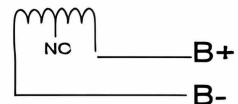
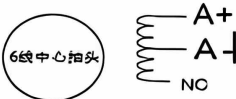
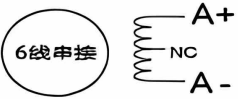
Switching power supply: 24-48V



4-wire motor

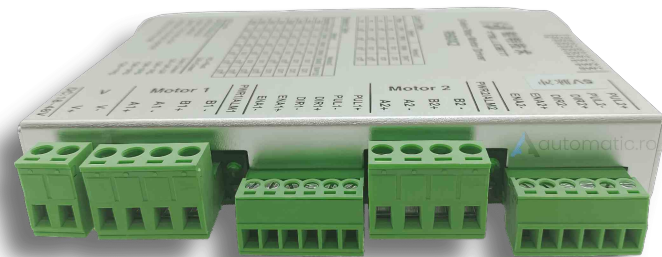
8-wire series

8-wire parallel



6-wire series

6-wire center shaft head



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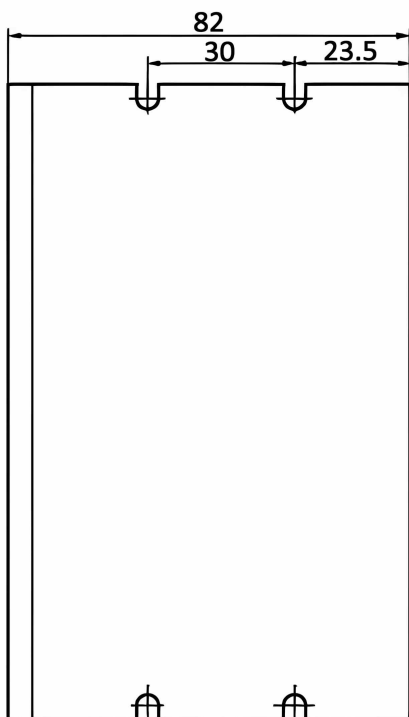
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Typical applications

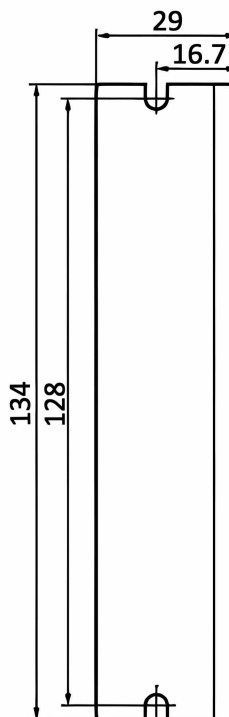
the conveying equipment, inspection conveyor,
PCB pallet conveyor



Installation dimensions



Front installation drawing



Side installation drawing



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Common Faults and Troubleshooting

Phenomenon	Possible situations	Solutions
Motor does not work	Power indicator is off	Check the power supply circuit for normal power supply
	The motor rotor is locked but the motor does not work	Pulse signal is weak; increase the signal current to 7-16mA
	The speed is too slow	Select the right micro-stepping
	Drive is protected	Solve the alarm and re-power
	Enable signal problem	Pull up or disconnect the enable signal
	Command pulse is incorrect	Check whether the upper computer has pulse output
The steering of motor is wrong	The rotary direction of motor is reverse	Replace the motor connection sequence or adjust the command direction
	The motor cable is disconnected	Check the connection
	The motor has only one direction	Pulse mode error or DIR port damaged
Alarm indicator is on	The motor connection is wrong	Check the motor connection
	The motor or drive damaged	Replace the motor or drive
	The voltage is too high or too low	Check the power supply
The position or speed is wrong	The signal is disturbed	Eliminate interference for reliable grounding
	The command input is incorrect	Check the upper computer instructions to ensure the output is correct
	The setting of Pulse per revolution is wrong	Check the DIP switch status and correctly connect the switches
	The motor lose step	Check the command make sure the speed is not too high or check the motor type is not smaller
The drive terminal burned up	Short circuit between terminals	Check power polarity or external short circuit
	Internal resistance between terminals is too large	Check whether there is any solder ball due to excessive addition of solder on the wire connections
The motor is out of tolerance	Acceleration and deceleration time is too short	Reduce command acceleration or increase drive filtering parameters
	Motor torque is too low	Select the motor with high torque
	The load is too heavy	Check the load weight and quality and adjust the mechanical structure
	The current of power supply is too low	Check the DIP, higher the drive's output current



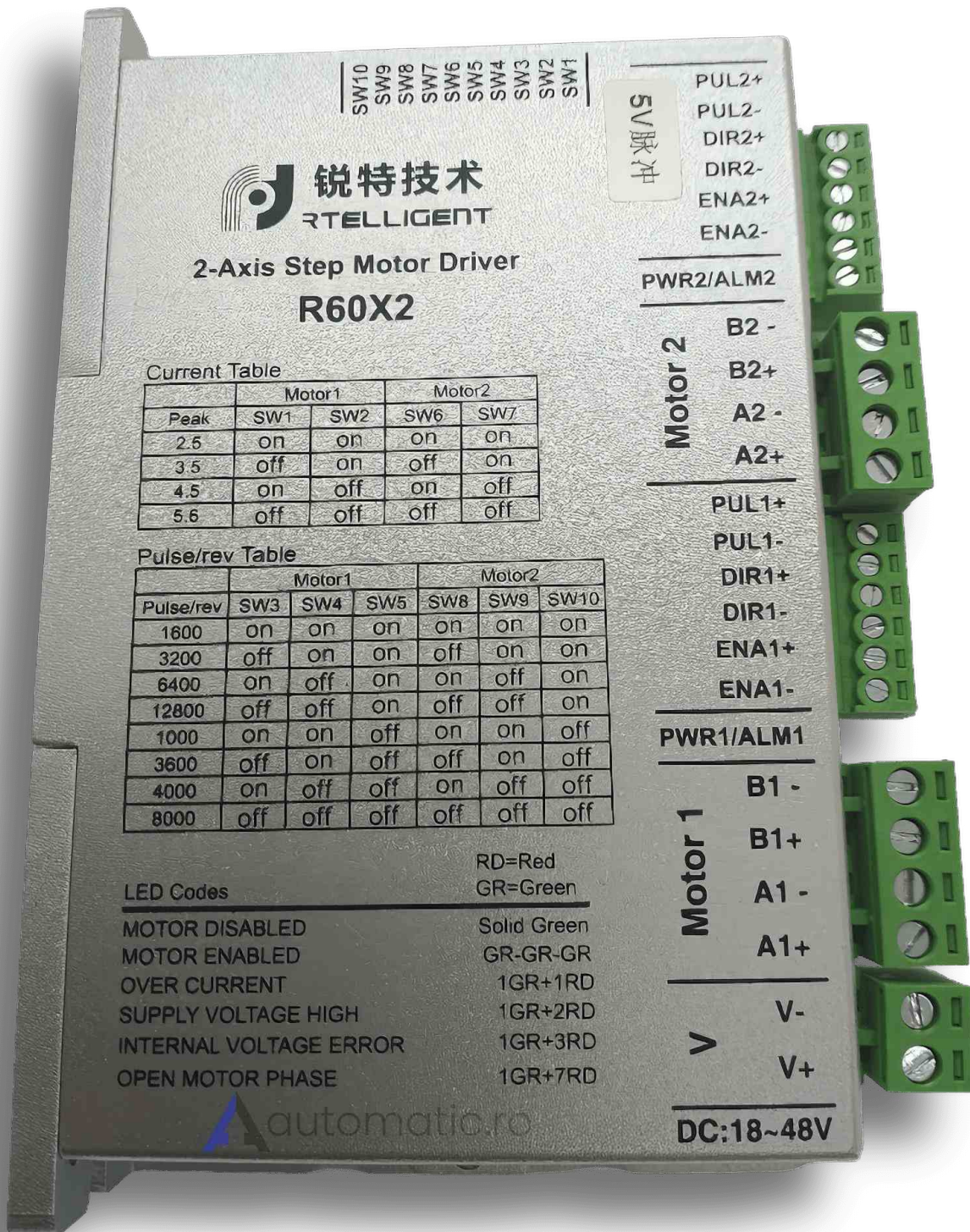
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SW10
SW9
SW8
SW7
SW6
SW5
SW4
SW3
SW2
SW1

5V脉冲



**2-Axis Step Motor Driver
R60X2**

Current Table

Peak	Motor1		Motor2	
	SW1	SW2	SW6	SW7
2.5	on	on	on	on
3.5	off	on	off	on
4.5	on	off	on	off
5.6	off	off	off	off

Pulse/rev Table

Pulse/rev	Motor1			Motor2		
	SW3	SW4	SW5	SW8	SW9	SW10
1600	on	on	on	on	on	on
3200	off	on	on	off	on	on
6400	on	off	on	on	off	on
12800	off	off	on	off	off	on
1000	on	on	off	on	on	off
3600	off	on	off	off	on	off
4000	on	off	off	on	off	off
8000	off	off	off	off	off	off

LED Codes

MOTOR DISABLED	Solid Green
MOTOR ENABLED	GR-GR-GR
OVER CURRENT	1GR+1RD
SUPPLY VOLTAGE HIGH	1GR+2RD
INTERNAL VOLTAGE ERROR	1GR+3RD
OPEN MOTOR PHASE	1GR+7RD

RD=Red
GR=Green

PUL2+
PUL2-
DIR2+
DIR2-
ENA2+
ENA2-

PWR2/ALM2

Motor 2
B2 -
B2+
A2 -
A2+

PUL1+
PUL1-
DIR1+
DIR1-
ENA1+
ENA1-

PWR1/ALM1

Motor 1
B1 -
B1+
A1 -
A1+

V-
V+

DC:18~48V



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