

YKD2608PC

- 32 bit DSP control technology, low noise/vibration with excellent stability and low cost
- Built-in single-axis controller and digital drive function, supporting position control, speed control and multi-position control mode
- CAN-Bus, support standard CANopen protocol, mounting 127 devices the most
- 16 constant-torque microstep settings, 200 microsteps the highest
- Excellent smoothness in low frequency high microstep applications
- Photoelectric isolated signal input/output, high anti-interference ability
- Drive current adjustable (under 6A)
- Input voltage range: DC24-80V
- Fault protection: over voltage protection, low voltage protection, etc.

Typical Application:

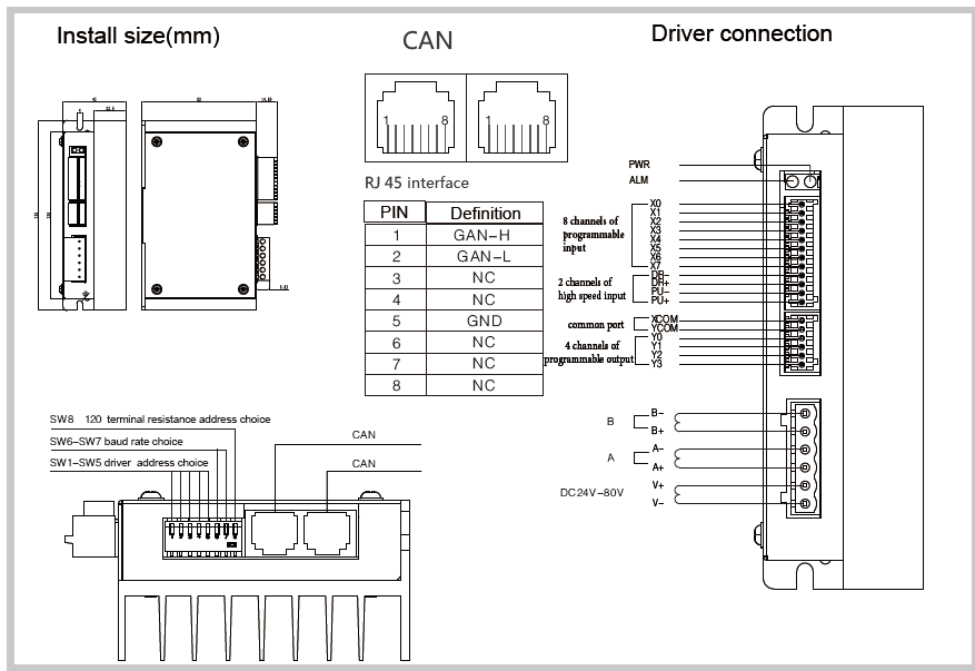
Widely used in textile machines, embroidery machines, security equipment, stage lighting, robots, medical equipment, laser equipment, marking machines, plotters and other automation equipments.

Product Details

Description

YKD2608PC CAN-Bus stepper drive is based on YKD2608MH. It has bus communication and uniaxial controller. YKD2608PC uses CAN-Bus interface, and support standard CANopen CiA301 and CiA402 protocol. It has 2 photoelectric isolated programmable high-speed differential input terminals, 8 photoelectric isolated programmable input terminals and 4 photoelectric isolated output terminals. With those multiple input/output terminals, it's used to carry out current setting, position control, speed control, home position return and other uniaxial motion control. YKD2608PC is particularly suitable for long distance, strong interference environment, and multiple motor control applications. Since it has uniaxial control function, users don't need to purchase controller anymore, thus greatly reduce costs.

Product Diagram



Description

Product Diagram

Baud Rate

Address Setting

Terminal Assignment

● YKD2608PC Choice of terminal resistance

120 choice of terminal resistance	invalid	valid
SW8	OFF	ON

● YKD2608PC COM baud rate setting

baud rate	125kbit/s/500(m)(default)	250kbit/s/250(m)	500kbit/s/100(m)	1Mbit/s/25(m)
SW7	ON	ON	OFF	OFF
SW6	ON	OFF	ON	OFF

● YKD2608PC The COM address setting

add	custom	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
SW5	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
SW4	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
SW3	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON
SW2	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON
SW1	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON

add	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
SW5	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
SW4	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON	ON	ON	ON	ON	ON	ON
SW3	OFF	OFF	OFF	OFF	ON	ON	ON	ON	OFF	OFF	OFF	OFF	ON	ON	ON	ON
SW2	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON	OFF	OFF	ON	ON
SW1	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON	OFF	ON

Mark	Function	Remark
PWR	power light	Light on once power on
ALM	alarm light	Over-current, flash one time; Over-voltage, flash twice; Under-voltage, flash three times; EEPROM error, flash four times;
X0-X7	8 channels of programmable input	Support NPN & PNP wiring modes, requires the pulse width is bigger than 10ms
DR-		Effects on falling edge. Input resistance 220Ω. Requirements: low level 0-0.5V, high level 4-5V, pulse width > 2.5μs
DR+		+5V~+24V can drive, must add resistance on PU- to control current if the voltage is higher than +5V.
PU-		Effects on falling edge. Input resistance 220Ω. Requirements: low level 0-0.5V, high level 4-5V, pulse width > 2.5μs
PU+		+5V~+24V can drive, must add resistance on PU- to control current if the voltage is higher than +5V.
XCOM	common input port	Support NPN & PNP wiring modes.
YCOM	common output port	Support NPN & PNP wiring modes.
Y0-Y3	4 channels of programmable output	
V+	power+	DC 24-80V
V-	power-	
A+ A- B+ B-	motor connection	<p>The diagrams illustrate four motor connection methods: 1) 4-wire connection with terminals +A, -A, +B, -B; 2) 6-wire connection with terminals +A, -A, +B, -B, and two unlabeled terminals; 3) 8-wire low speed connection with terminals +A, -A, +B, -B, and four unlabeled terminals; 4) 8-wire high speed connection with terminals +A, -A, +B, -B, and four unlabeled terminals.</p>