

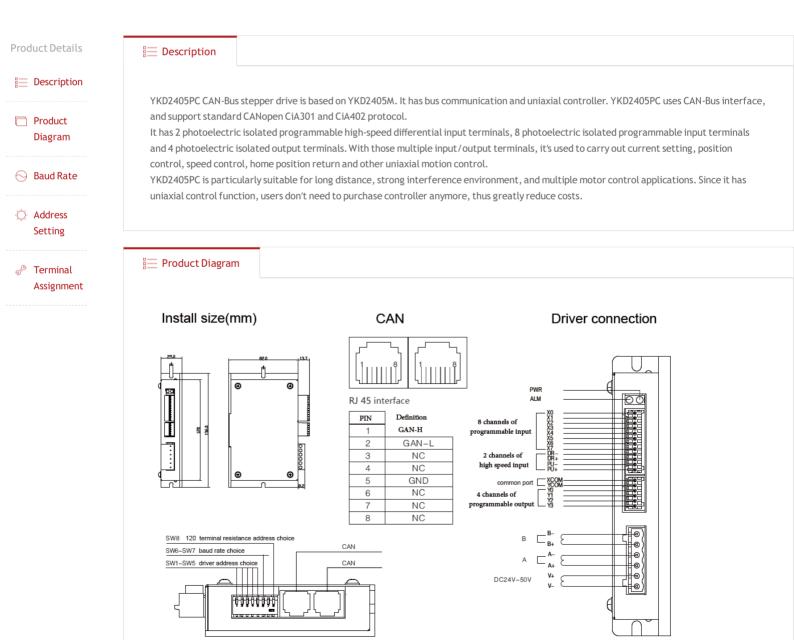


#### YKD2405PC

- 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 4.2A)
- Input voltage range: DC24~50V
- 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.



📃 Baud Rate

# • YKD2405PC Choice of terminal resistance

120 choice of terminal resistance	invalid	valid		
SW8	OFF	ON		

# • YKD2405PC 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

### I → Address Setting

## • YKD2405PC The COM adddress 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							
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							
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

#### 🔚 Terminal Assignment

Mark	Function	Remark					
PWR	power light	Light on once power on					
ALM	alarm light	Over-current, flash one time;Over-voltage, flash twice; Under-voltag flash three times; EEPROMEEPROM error, flash four times;					
X 0- X 7	8 channels of programmable input	Support NPN & PNP wiring modes, requires the pulse width is bigger than 10ms10ms.					
DR-		Effects on falling edge. Input resistance $220\Omega$ . Requirements: low leve 0-0.5V, high level 4-5V, pulse width> $2.5\mu s$					
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 leve 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 24-50V					
V-	power-						
A+ A-		$-B \longrightarrow (M) = -B \longrightarrow (M) $					
B+ B-	motor connection	+B +					