



Controller exclusively designed for Pico series

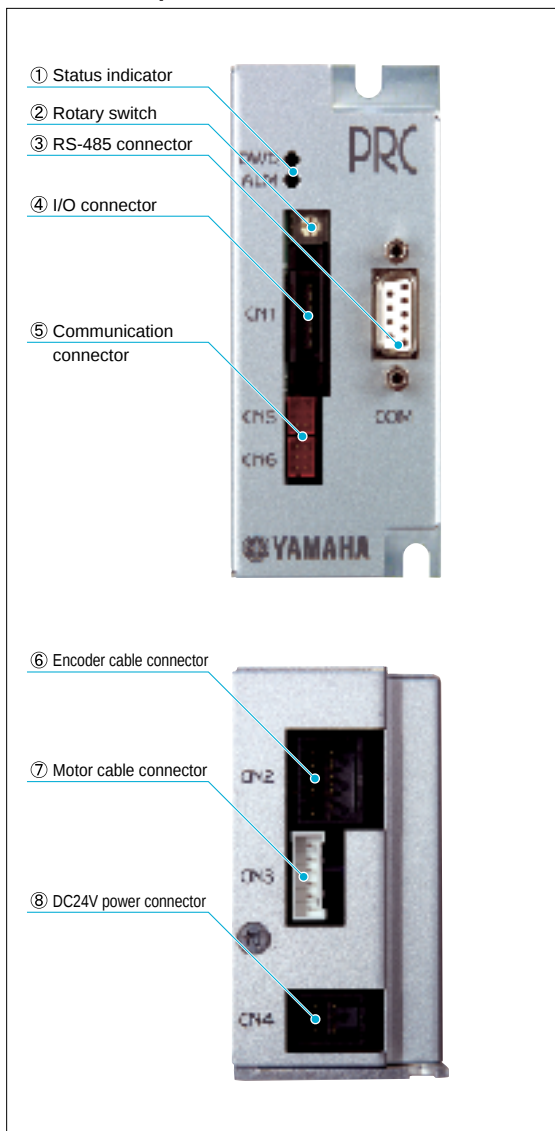
PRC



PRC

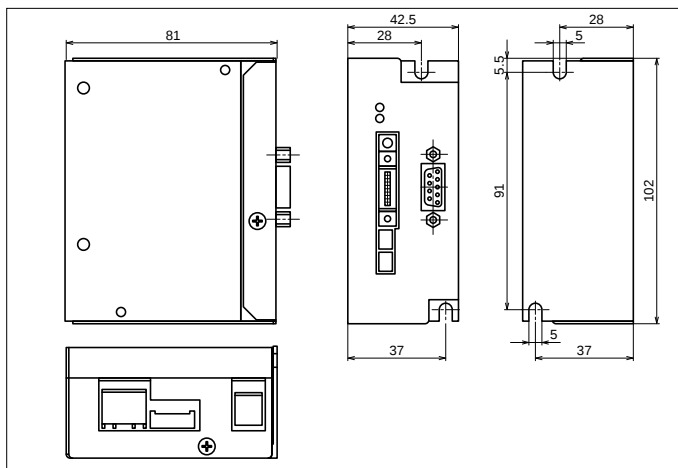
Compact high performance controller exclusively designed for Pico series available at a low price.

Connector part names and function



Connector name	Function
① "PWR" LED "ALM" LED	Lights up at power ON. Lights up at alarm output.
② Rotary switch	Used to set station number of the controller.
③ RS-485 connector	Connector used to connect TP-I or PC.
④ I/O connector	Connector for input/output signal.
⑤ Communication connector	Used to control a multiple number of robots through one PC.
⑥ Encoder cable connector	Connector for motor feedback and sensor signals.
⑦ Motor cable connector	Connector for driving the motor.
⑧ DC24V power connector	Connector to supply power to the controller.

Dimensions of PRC



Basic specifications

Item	Model	PRC1, 2
Axis control	Applicable motor output	Servo motor
	Number of controllable axes	One axis
	Number of controllable robots	T4P, T5P
	Control system	Software servo
	Position detection method	Encoder
	Position setting unit	mm, pulse
	Locus control	PTP Note 1
	Speed setting	1 to 240 1 increments (100=1,875rpm)
	Acceleration/deceleration	1 to 255 1 increments (100=6,123rad/sec ²)
Memory specification	Number of points	32 points
	Point-data input method	Teaching box (TP-I) or PC Note 2
External input/output	Parallel input/output signal	10/8 dedicated points
	Serial input/output	RS-485 (for communication with PC) Note 3 RS-485 conformed : 1CH (Teaching box or PC)
	Brake output	Available
Protective function	Abnormality detection items	Over voltage check, Cable broken, Power voltage drop, Servo error, CPU error, memory error, regeneration error, over-speed, etc.
General specifications	Power	DC24V±10% 3A Note 4
	Dimension	W42.5 x H102 x D81mm
	Weight	0.4Kg (Only controller)
	Ambient temperature	0°C to 55°C
	Ambient humidity	35 to 85%RH (non-condensing)
Options	Storage temperature	-10°C to 65°C
	Selective options	Teaching box (TP-I), PC supporting software YPB-Win Note 5, IC memory card

Note 1 : The trace command format for PRC is different from that of ERCX, SRCX or DRXC.

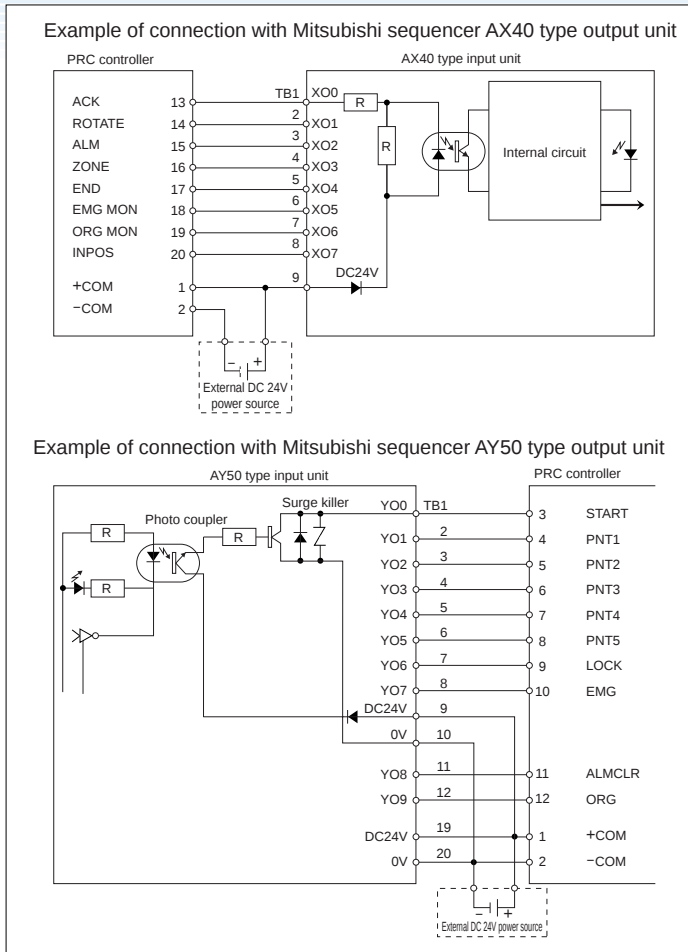
Note 2 : An optional YPB-Win (support software) exclusively for PRC is required.

Note 3 : DG chain connection possible for 16 units.

Note 4 : Confirm the nozzle filter is attached to the electric line while lead loading parts such as a motor or an electromagnetic valve is attached to the robot. Failure may cause the wrong operation of the robot.

Note 5 : RS485 conversion adapter (with cable) and RS232C communication cable are required.

■ Example of connection with sequencer unit using DC24V power source

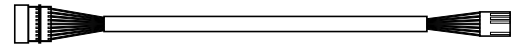


■ I/O connector signal list

NO.	PIN number	Name of the signal	Meaning	Input/output
1	A1	+COM	Common power supply for I/O port : +5V to 24V	-
2	A2	-COM	Common power supply for I/O port : 0V	-
3	A3	START	Point start signal	Input
4	A4	PNT1	Specifies point number	Input
5	A5	PNT2		
6	A6	PNT3		
7	A7	PNT4		
8	A8	PNT5		
9	A9	LOCK	Interlock signal	Input
10	A10	EMG	Emergency stop signal	Input
11	B1	ALMCLR	Alarm cancel signal	Input
12	B2	ORG	Starting signal of origin return function	Input
13	B3	ACK	Response signal for ORG, START signals	Output
14	B4	ROTATE	Output signal to indicate motor drive status	Output
15	B5	ALM	Output signal to indicate alarm status	Output
16	B6	ZONE	Output signal to indicate coordinate judgment	Output
17	B7	END	Output signal to indicate end of normal execution	Output
18	B8	EMGMON	Output signal to indicate emergency stop status	Output
19	B9	1 ORGMON	1 Output signal to indicate completion of origin return function	Output
	B9	2 LOCKMON	2 Output signal to indicate interlock status	Output
20	B10	INPOS	Output signal to indicate completion of positioning	Output

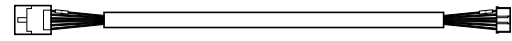
■ List of cables

Standard



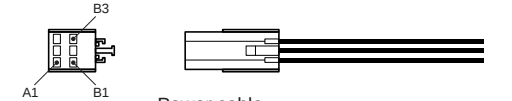
Encoder cable

Model	Length
KX2-M4751-300	3.5m (Standard)
KX2-M4751-500	5m
KX2-M4751-A00	10m



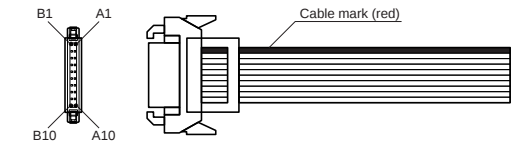
Motor cable

Model	Length
KX2-M4752-300	3.5m (Standard)
KX2-M4752-500	5m
KX2-M4752-A00	10m



Power cable

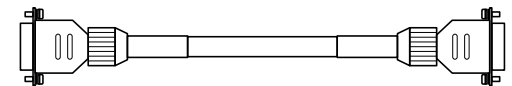
Model	Length
KX1-M532A-000	2m



I/O flat cable

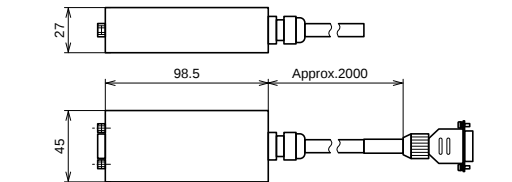
Model	Length
KX1-M5163-200	2m

Option



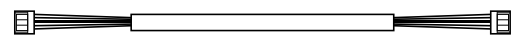
RS232C communication cable

Model	Length
KX1-M538F-000	0.3m



RS485 conversion adapter (with cable)

Model	Length
KX1-M4400-000	2m



Link cable

Model	Length
KX1-M5361-000	0.2m