Low-profile tilting stick controller with excellent operating feel





Items	Specifications
Rated power	0.025W
Maximum operating voltage	5V DC
Operating angle	Each direction 15.5° ±3.4°
Operating life	1,000,000 cycles

Product Line

Product No.	Knob	Operating force	Lever return mechanism	Center- push	Total resistance (kΩ)	Resistance taper	Minimum ord Japan	er unit (pcs.) Export	Drawing No.
		10100	moonamom	paon	(1122)	tapoi	Japan	Lybort	140.
RKJXY1000006	with	0.43±0.25N (3.33±2.0mN·m)	With	Without	9	В	2.000	2.000	1
RKJXY100000A	without	3.33±2.0mN·m	VVICII	Without		Б	2,000	2,000	2

Packing Specifications

Tray

Number of pa	ckages (pcs.)	Evport packago magguromente (mm)					
1 case / Japan	1 case / export packing	Export package measurements (mm)					
2,000	2,000	540×360×230					

Dimensions

	mensions	Unit	t:mm
No.	Photo	Style	
1	With knob type	Output Max Axis Output Max Axis Output Max Axis Output Max Connector: KYOCERA Connector Products Corporation (04 277 008 001 883+)	
2	Without knob type	Output Min Connector: KYOCERA Connector Products Corporation (04 277 008 001 883+)	

	Type			Potention	neter type						
;	Series		RKJXK	RKJXV	RKJXY	RKJXU					
Photo											
Dimensions		W	20.7	17.8	19.6	18.6					
(typical value		D	25.4	21.3	18.1	24.3					
(mm)		Н	12.9	11.2	4.9	5.2					
Number of	operating	shafts		Single	e-shaft						
Shaf	t mater	ial	Metal		Resin						
Directio	nal reso	lution		Conti	nuous						
Directional (tact	operating tile feeling			Witl	nout						
Lever ret	urn mech	nanism	With / Without								
Center-	push sv	witch	With / Without Without								
Eı	ncoder		Without								
Operating t	temperatur	e range	−10°C to +70°C								
Operating			ectional operation 100,000 cycles 2,000,000		1,000,000 cycles	2,000,000 cycles					
life	Cente	r-push	100,000 cycles	500,000 cycles	_	_					
Autor	motive ι	use	_		_	_					
Life cycl	e (availa	ability)	* 2	* 2	2						
	Insulation	resistance	100MΩ mir	n. 250V DC	_	_					
Electrical performance	Voltag	e proof	250V AC f	_							
,	Slider	noise		300mV p-p max. by JIS method							
		tional ng force	8mN·m max. Without Lever return mechanism 6±4mN·m With Lever return mechanism	14±10mN·m	With knob type 0.43±0.25N (3.33±2.0mN·m) Without knob type 3.33±2.0mN·m	0.75±0.3N					
Mechanical -	Push oper	rating force	5.2±2.6N	7.4±3N	_	_					
performance	Lever retu	rn precision		±5°		±0.1mm					
	Actuator	Push / pull directions	50N min. (Push/Pull)	98N min. (Push), 50N min. (Pull)	100N min. (Push), 49N min. (Pull)	100N min. (Push), 30N min. (Pull)					
	strength	Operating direction	0.3N·m	_	50	ON					
	Co	old	−30°C 96h								
Environmental performance	Dry	heat		208	96h						
,	Damp	heat		60°C, 90 to	95%RH 96h						
	Page		42	28	431	432					

Variable Resistor Type Multi Control Devices Soldering Conditions		٠.		 		 ٠		 •		•		 433
Variable Resistor Type Multi Control Devices Cautions · · · · · · ·	 			 							 	 433

Potentiometer Type / Soldering Conditions

■ Reference for Manual Soldering

Series	Tip temperature	Soldering time	No. of solders			
RKJXK, RKJXV	350°C max.	3s max.	1 time			

■ Reference for Dip Soldering

Series	Prehe	eating	Dip so	No. of solders			
Jenes	Soldering surface temperature	Heating time	Soldering temperature	Soldering time	INU. UI SUIDEIS		
RKJXK	90 to 100℃	45s max.	255 to 260℃	2 to 3s	1 time		
RKJXV	90 to 120℃	60s max.	260℃	5s	1 time		

Potentiometer Type / Cautions

(Circuit Used for Analog Stick Controller)

We recommend you use the potentiometer type in a voltage divider type as shown in Fig. A.

(Impedance on the Output Side)

Since this pot is designed to use with its output is connected directly to A/D port. Impedance is considered to be mega ohm level. Then contact resistance in the pot is higher. Please refer to Flg-1. So when you use it in the circuit like Flg-2.Please make sure that impedance should be over than 1M-ohm.

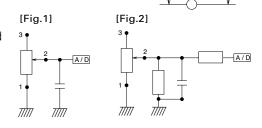


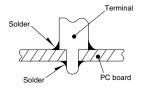
Fig.A.Voltage divider type

(Dew Condensation)

Avoid using the product when condensation or drops of water might occur inside the product. Otherwise, insulation deterioration or shorting may occur.

(Soldering)

Do not employ wiring designs and soldering methods as illustrated in the schematic drawing. Molten solder flowing over the upper surface of PC board can cause imperfect contacts. Solder all metal inserted fixing including terminals & metal lugs into a substrate.



(Stress Being Applied to the Terminals)

Always be careful not to apply excessive stress on the terminals. Design appropriate soldering conditions.

(Handling of Variable Resistors Equipped with Switches)

Exercise care when packing or storing. Packaging or storing while load is applied to the shaft may cause a malfunction in performance.

(Storage)

- ① Store the products as delivered, at a normal temperature and humidity, without direct sunshine and corrosive gas ambient. Use them at an earliest possible timing, not later than six months upon receipt.
- ② After breaking the seal, keep the products in a plastic bag to shut out ambient air, store them in the same environment as above, and use them up as soon as possible.
- 3 Do not stack too many switches.

The above operation notes are quoted from the

"Precaution and Guideline of Potentiometer for Electrical Devices", a technical report issued by the Japan Electronics and Information Technology Industries Association EIAJ RCR-2191A (in March 2002).

For details, refer to the original technical report.



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RKJXS1004001 RKJXT1F42001 RKJXV1224005 RKJXY100000A SKRHAAE010 SKRHABE010 SKRHACE010 SKRHADE010

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