

OTHERS

- 7. Operating temperature range — 20°C ~ + 60°C
- 8. Vibration 10~55Hz, 98m/s² (10G)
(According to MIL-STD-202F-204)
- 9. Shock 294m/s² (30G)
(According to MIL-STD-202F-213)
- 10. Life expectancy Approx. 2,000,000 operations

(This item shows life expectancy shall be based on test conditions under which lever shall be moved forward and backward per each operation at the speed of 40 reciprocating motions per minute in normal room temperature.)

- 11. Lever strength Max. 100N (Max. 10kgf)

(This value shows the value of static load to the part of knob.)

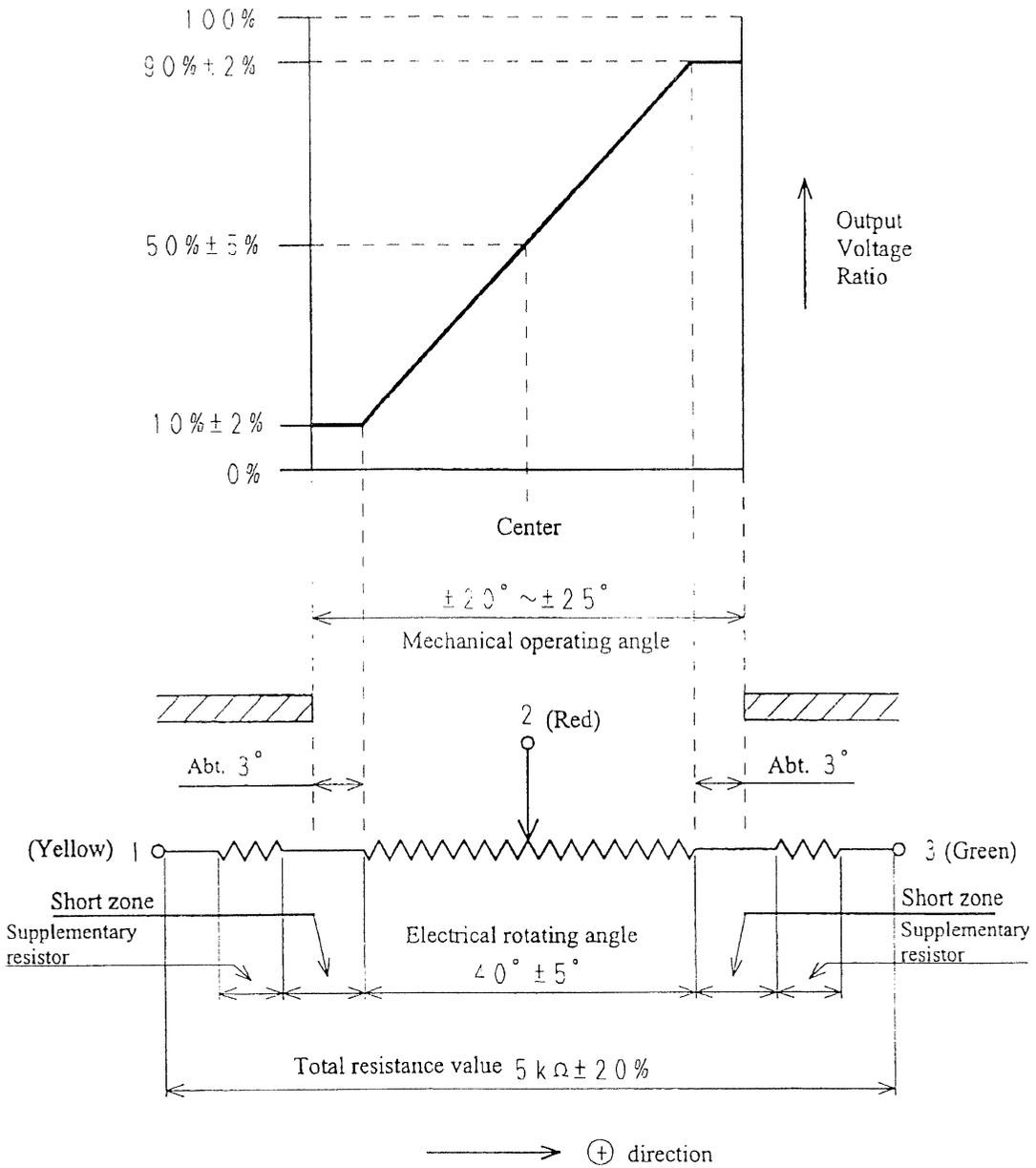
- 12. Tensile strength of leadwire Max. 10N (Max. 1kgf)
- 13. Index of protection IP = 65

14. Important notice for operating joystick controllers

- 1) Please refer to precautions for using joystick controllers in our joystick controller catalog.
- 2) In case of with spring return device, when repeating spring return action without gripping with hand, the life expectancy may be shorter than specified, because such operation may bring over worn out the resistance element of the potentiometer at the center position and other damages of inner construction. Lever operation is preferably made as slow and stable as possible.
- 3) Potentiometer used on these joystick controllers employ precision class conductive plastic resistance elements, and therefore, please make sure that these joystick controllers should always be used with voltage method (Voltage shall be applied between terminal ① — ③ and output obtained from terminal No. ②).
- 4) Please also take care that more than 1mA shall not flow through terminal No. ② (Movable contact), even though instantaneous, because over current burns out the resistance element and there is possibility that the linearity makes lower, and noise occurs.
- 5) Please refer to our precision potentiometers catalog respectively, about technical matters of potentiometers used in these joystick controllers.

SYN.	DATE	DESCRIPTION	APPO.	DESIGNED	DRAWN	CHECKED	APPROVED	TITLE
				M.Y	M.Y	K.S	K.S	MODEL NO S30JLK-XI-FORIGH-5542
				DATE 15. JUN. 2001	3RD ANGLE PROJECTION			DWG NO 242-5542-1-2
 CALDARO AB • Tel +46 (0)8 736 12 70 P.O. Box 30049 • SE-104 25 STOCKHOLM, Sweden								SCALE / UNITS SHEET 2 OF 2

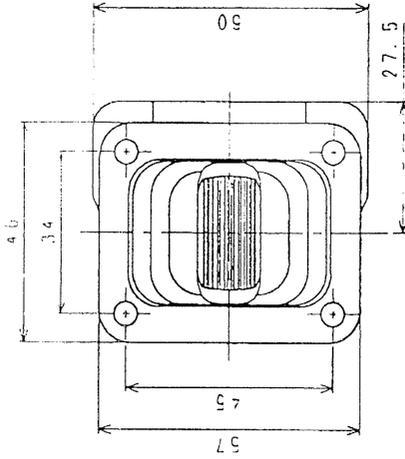
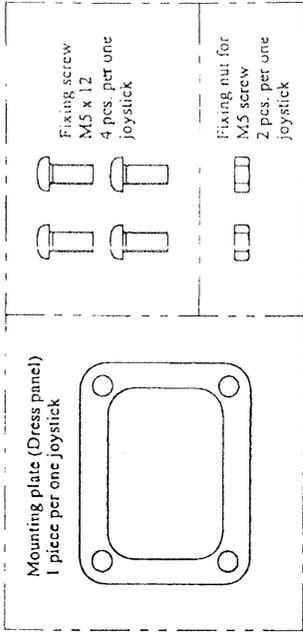
OUTPUT CHARACTERISTICS AND TERMINAL CONNECTION DIAGRAM



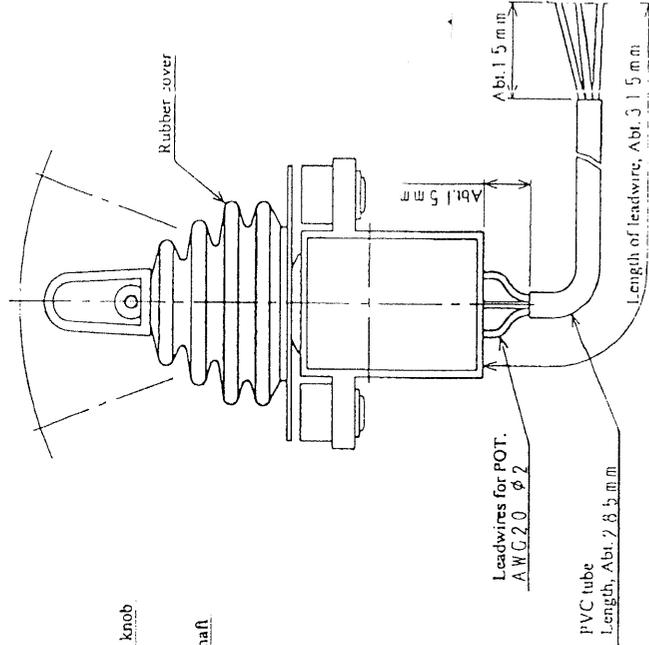
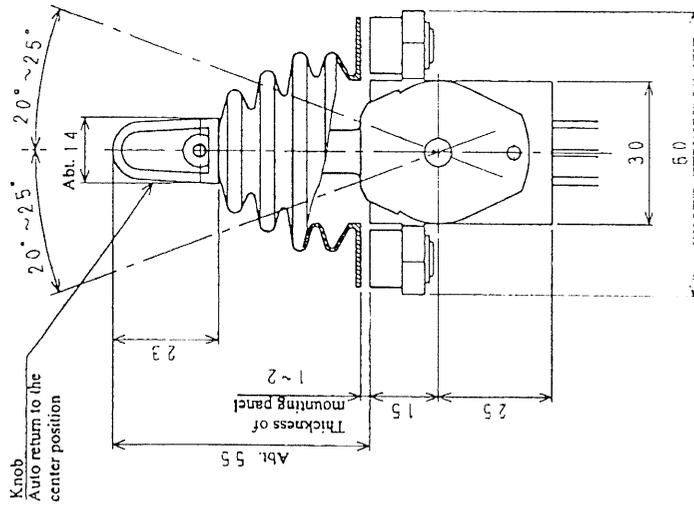
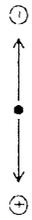
NOTE: The color of leadwire is shown in parenthesis

SIN.	DATE	DESCRIPTION	APPO.	DESIGNED	DRAWN	CHECKED	APPROVED	TITLE
				M.Y	M.Y	K.S	K.S	MODEL NO. S30JLK-XI-TORICH-5542
				DATE 15. JUN. 2001	3RD ANGLE PROJECTION			DWG. NO 242-5542 - - 3
				CALDARO AB • Tel +46 (0)8 736 12 70 P.O. Box 30049 • SE-104 25 STOCKHOLM, Sweden ALE				UNITS SHEET 3 of 4

The necessary numbers of the following mounting plate, fixing screw and fixing nut are enclosed in each carton box when shipping (The following parts are packed separately and then, enclosed)



DIRECTION OF LEVER OPERATION (I TYPE)



DATE	DESCRIPTION	APPROVED	DESIGNED	DRAWN	CHECKED	APPROVED	TITLE
15. JUN. 2001			M.Y.	M.Y.	K.S.	K.S.	NO. 11. NO. S301K XI-FORICH 5542
							DATE 15. JUN. 2001 100 ANGEL PUBLICATION DW-HP 242-5542 7
							SCALE 1/3 SIZE SHEET 4 of 4