

SW2 Linear Scale Pitch Setting (rotary switch)

Set SW2 according to the linear scale pitch (i.e. grating pitch or signal period) of the linear encoder. Use the table below to set the correct linear scale pitch setting. The linear encoder must output a 1Vpp analog sin/cos waveform. The factory switch setting is 0 (0 micron). Alarm 0 (SW2, SW3 setting error) will occur at power-up if this switch is left at setting 0.

SW2 Setting	Linear Scale Pitch Setting (microns)	SW2 Setting	Linear Scale Pitch Setting (microns)
0	0	8	Not used
1	2	9	Not used
2	4	A	Not used
3	20	B	Not used
4	40	C	Not used
5	800	D	Not used
6	1000	E	Not used
7	Not used	F	Not used

SW3 PG Divider Setting (rotary switch)

SW3 is used to scale the encoder output resolution from the servo amplifier. The factory switch setting is 0 (1/20); therefore, for a linear encoder with a scale pitch of 40 micron (SW2=4), the encoder output resolution is 1/20 (SW3=0) times 40 micron (SW2=4), or 2 microns per 1 pulse. Use the table below to set the correct PG Divider.

SW3 Setting	PG Divider Setting	SW3 Setting	PG Divider Setting
0	1/20	8	1/32
1	1/256	9	1/16
2	1/250	A	1/10
3	1/200	B	1/8
4	1/128	C	1/5
5	1/100	D	1/4
6	1/64	E	1/2
7	1/40	F	Not used