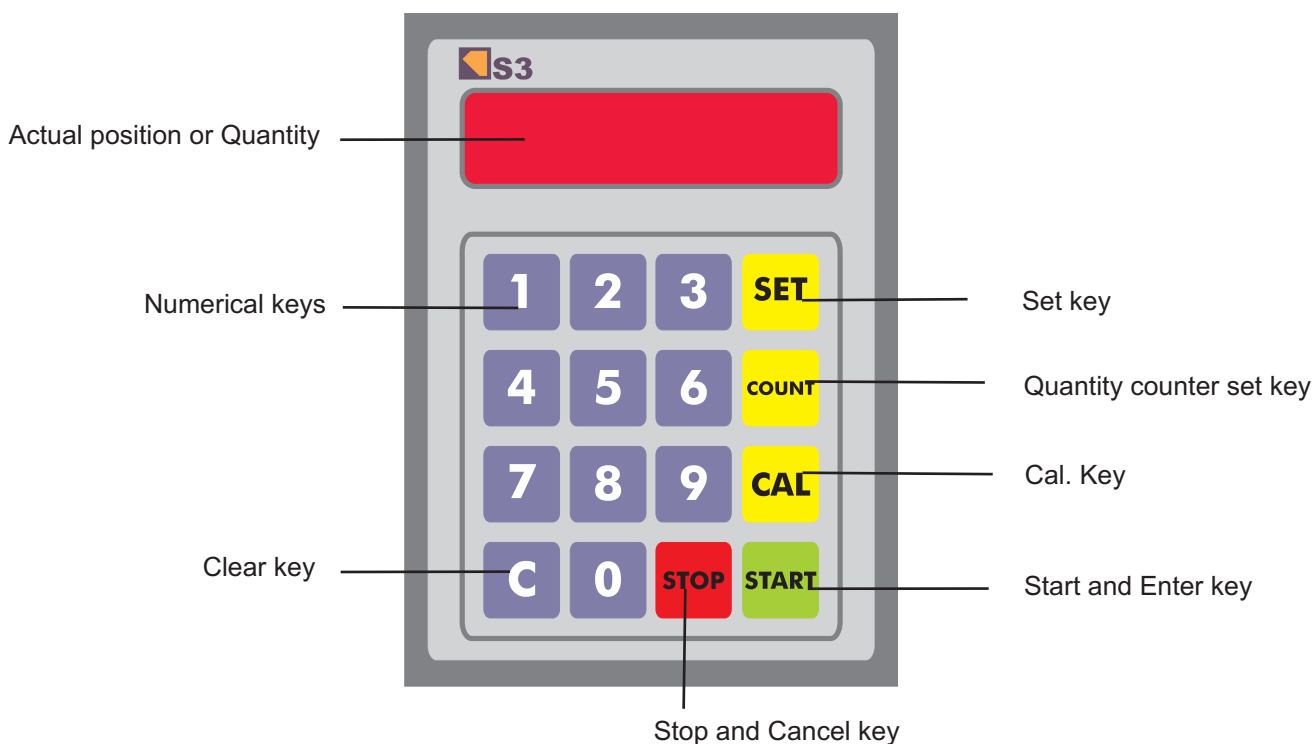


SINGLE-AXIS POSITION CONTROLLER

S3



Technical Data:

Power supply	: 24 Vac - 50/60 Hz
Consumption	: 2.4 VA
Sensor	: Encoder 10-30 Vdc
Measurement range	: 00000.0 - 99999.9 mm
Output	: 4 relays, contact SPST ve 250 V ac/5A
Display	: 6 digits, 7 mm height, 7 segment led
Dimensions	: 96x72x120 mm (DIN43700)
Cut-Out	: 90x65 mm

How to position the machinery

1. Press SET, display shows.....
2. Write the desired position to the display
3. Press START, machinery moves to the desired position



How to set quantity counter

1. Press SET, display shows.....
2. Write the desired position to display
3. Press COUNT, display shows.....
4. Write the desired count to the display
5. Press START, machinery moves to the desired position.



- When the quantity counter is reached to the set value , OK contact opens, display flashes (press STOP to stop the flashing)
- To reset the quantity counter to zero, press COUNT and then at the same time press C.
- To see the counter value, press COUNT, then counter value is displayed only for 2 seconds, At each counter increase, counter value is also displayed for 2 seconds.

How to set Retract Mode

Par. 12 value must be set to 1 in parameter table (pass=1974) and retract is initiated by counter input.

Calibration (To set display to the actual position)

1. Entry

1. Press CAL for 5 seconds, display shows.....
2. Write the password (1971), press START, display shows



2. New Value

Measure the position and write this value to the display



3. Exit

1. To accept the calibration, press START
2. To skip the calibration, press STOP
3. Auto exit in 30 seconds, if no action is done.

4. Check:

Write a different position to the display, press START, machinery moves to this position, then cut a sample and measure it to check the display showing the same value.

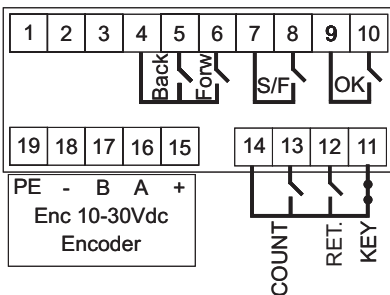
If the result is not satisfactory, parameters can be loaded by exact values to be sure that par. values are OK.

ERRORS

- Err1= Encoder and/or forw/back relays connections are not OK
- Err2= Encoder and/or forw/back relays are connected oppositely.

Electrical Connection

24 Vac
PE N L



TO LOAD EX-FACT PAR. VALUES

Switch off the unit.

1. If the pitch is 5.0 mm
Press and hold "1" and switch on the unit, Display shows first CAL-1-, then SET-1-
Release "1" and do the calibration.
2. If the pitch is 10.0 mm
Press and hold "2" and switch on the unit, Display shows first CAL-2-, then SET-2-
Release "2" and do the calibration.

Parameter Table

1. Press C for 5 seconds to enter the par. table, display shows **pass**
2. Press 0-9 to enter the password (1974)
3. Press **START**, display shows **Pr00**
4. Press **START**, display shows the value of **Pr00**
5. Press 0-9 to enter the new value of **Pr00** press **START**, display shows the next par. number
6. Press **STOP** to exit

	Pr	Description	MIN	MAX	1	2	NOTES
					Pitch = 5mm	Pitch=10mm	
SET-UP	0	Actual Position (reference)	000000	999999	0	0	
	1	Encoder pulse multiplier	0,00001	9,99999	0,12500	0,25000	1
	2	Encoder pulse divider	0,00001	9,99999	1,00000	1,00000	1
	3	Number of digits after decimal point (0-5)	0	5	1	1	1
	4	Tolerance	000000	999999	0,1	0,1	
	5	Tolerance window blanking (0 = no, 1 = yes)	0	1	1	1	
	6	Auto reset of the counter at new position (0 = off, 1 = on)	0	1	1	1	
	7	Min. position (Software limit)	000000	999999	00000,0	00000,0	
	8	Max. position (Software limit)	000000	999999	99999,9	99999,9	
	9	Change of inputs: Forw. And backw. Relays (0 = FB, 1 = BF)	0	1	0	0	
	10	Change of outputs: Forw. and backw. Relays (0 = FB, 1 = BF)	0	1	0	0	
	11	Fast / slow relay energized (0 = fast, 1 = slow)	0	1	0	0	
	12	Retract mode (0 = off, 1 = on)	0	1	0	0	
	13	Retract move delay	0,0	5,0	0,3	0,3	
	14	Retract distance (mm)	0,0	50,0	5,0	5,0	
	15	Slow speed distance	0,0	50,0	35,0	35,0	
	16	Approach mode (0 = double side, 1 = single side)	0	1	0	0	
17	Counter display blanking (0=yes, 1=no)	0	1	1	1		

SERVICE	21	Auto. entry of set-up parameters (pitch = 5 mm)					
	22	Auto. entry of set-up parameters (pitch = 10 mm)					
	40	Calibration by single reference point					2
	41	Calibration by double reference point					3
	42	Change mm to inch					
	43	Change inch to mm					
	44	Find the mechanical limits					
	50	Performance % (read only)	0	100			
	51	Performance reset	0	999999			
	52	Positive (inertia) shift at stop (read only)	0	999999			4
	53	Negative (inertia) shift at stop (read only)	0	999999			4
	54	Hour-meter					
	55	Reset hour-meter					
	60	Display test					
	61	Keyboard test					
	62	Encoder test (no error = no Err)					
	90	Prog. Writer	Soner				
91	Prog. version	1,00					
92	Prog. Date	24.5.00					
93	Serial number						

Notes :

1. $Par1 = Par2(10^{Par3})pitch/4enc$ eg: pitch=5mm enc=100 dec.point=1 select Par2=1.00000, then Par1=0.12500
Pitch = Displacement in mm by one revolution of the back gauge shaft
Enc = Encoder pulse number
2. Calibration by single reference point: eg pitch = 5 mm, enc = 100, dec. point = 1, existing position = 25 mm
Find par. 40, display shows 000,000
Pitch: Write **005.000** press **START** display shows 000000
Enc: Write **000.100** press **START** display shows 1
Dec. pt: Write **1** press **START** display shows **posset**
Pos: Write **00025.0** press **START**
3. Calibration by double reference points:
Find par. 41, display shows 1, press **START** display shows **pos1**
Move the position min., measure the position, and write it to display, press **START**, **pos2** displayed.
Move the position max., measure the position, and write it to display, press **START**.
4. Stop offset due to inertia is automatically calculated.