



S31 - SINGLE AXIS POSITION CONTROLLER

- Operation in manual, in single positioning and in programme modes
- Memory capacity upto 99 programs, each one with 55 steps
- Counter [0-9999]
- Easy calibration
- Single point / double point calibration possibility
- Error messages and warning messages
- Retract function
- Two speed positioning and automatic stop offset calculation software
- External start/stop inputs
- Programs and parameters is stored in memory ten years

S31 SINGLE AXIS POSITION CONTROLLER - SHORT MANUAL

	1.1 MANUAL POSITIONING MODE Press M till the manual mode led is on, the axis now can using the keys ⊕/⊕ or ⊝/⊝ Note: Program entry, calibration and configuration is dor	, , , , , , , , , , , , , , , , , , , ,			
. Manual Mode . Single Mode . Auto Mode . Retract Function	1.2 SINGLE POSITIONING MODE Press M till the single mode led is on, press START Use the numerical keys to write the position value press START and write count value, press START then the positioning starts. When the position is reached in the tolerance (Pr.5), Ok output contacts closes (Ok led is on) Count input is counted and as the count set value is reached Ok contacts open (Ok led is off) Note: If the count value is set to zero, then count value is assumed as infinity.				
1.2. Sing 1.2. Sing 1.3. Autc 1.4. Reti	1.3 AUTOMATIC MODE (To run the programs entered before)				
	press START , positioning starts for the step 0 this allows the machine function (cutting or be 0k contacts open to stop the machine function When the programmed steps (max.55) is finis	y flashes. Press numerical keys to select the prog.no, p. 1. When the position is reached Ok contacts closes, ending). When the count value reached, n, and positioning starts for step 02 as before. Shed, program comes to step 01 and wait for start.			
1.WORKING MODES (MODE)		program and press START , the procedure is the same step is finished, the selected program starts from the STOP .			
	1.3.3 Program Read : As the program display flash one by one. Press STOP to exit.	ing, press P repeatedly, all steps can be scrolled			
	1.4 RETRACT MODE Press RETR to activate (led is on) or deactivate (led is of Retract Function: When the retract sw is closed, backgare the delay (Pr.21). On the make contact of count sw, backgare.	uge will move back to retract position (Pr.22) after			
(99 prg/ 55 steps)	2.1 PROGRAM ENTRY In manual mode, press P till to read PROG (appr.5secs) on the display. The first empty program no flashes in the prog. display.				
ROGRAM (PRG)	Press START to accept the flashed prog.no. (If another prog. no is wanted, write it and press START) Now step display shows 01 and press START . Write the position value press START , write the count value, press START , then step display shows 02. Continue as above to enter the values and so on. (Max.55 steps) Press STOP to come to prog.no display. Press STOP to exit.				
2.PROG (PRO	2.2 TO CLEAR A PROGRAM : As the prog.display flashes, write the prog.no to be cleared Press DEL , read PROG CLEAR on display, press STAR				
	2.3 TO CLEAR THE REMAINING STEPS IN A PROGRAM: As step display flashes, write the step no to be cleared. F that step and the following steps are cleared.	Press DEL , read STEPS CLEAR on display, press START,			
	2.4 TO CLEAR ALL THE PROGRAMS : Switch off the supply, press DEL and keep pressing DEL, switch on the supply keep pressing DEL till to read PROG ERASE on the display. (appr.15secs)				
3.CALIBRATION (CAL)	3.1 CALIBRATION (SINGLE POINT) In manual mode, press CAL till to read CALIBR on the display (appr.10secs) Use numerical keys, to write password (1974) and press START. Measure the position and write it and press START, the value is loadded to the display.				
3.CALII (C	3.2 DOUBLE POINT CALIBRATION (If pitch and encoder is not known) Press CAL till to read CALIBR on the display (appr.15secs), then two different position points are entered.				
4.ERROR Messages	Err 02 = Fatal error 03 = Out of range 04 = No encoder turn during double calibration	Service is needed. Check min/max values Pr.18/19. Check encoder connections and coupling.			

5.1 CONFIGURATION (Machine Specifications)
In manual mode, press **0 (CONF)** till to read "CONFIG". (appr. 10 sec.)
Use numerical keys, to write password (1974) and press **START**.
Par.no is shown on prog displays, and its value is shown on X display.
Use the numerical keys to select the par.no and its value and use **START** to enter.
Press **STOP** to exit.

5.2 PARAMETERS

5.CONFIGURATION (CONFIG)

	Pr.No	Factory
Slow speed position (mm)	11	10.0
Pitch (mm/tour)	12	5.00 / 10.00
Encoder number (puls/tour)	13	100
No of digits after decimal point	14	1
Tolerance window (mm)	15	0.1
Reserved for future use	16	1
Tolerance blanking (no/yes) 0/1	17	1
Minumum set (mm)	18	5.0
Maximum set (mm)	19	900.0

	Pr.No	Factory
Retract delay (0.01 sn)	21	0.20
Retract position (mm)	22	5.0
Reserved for future use	23	0
Password (Super pass.= 1974)	24	1971

5.3 Ex-Fact. values is loaded by keep pressing 1 or 2 and switching on the supply.1: 5.0 mm pitch, 2: 10.0 mm pitch

S31 - Connections

