



Rating force	500N	Input signal	0(2)~10VDC, 0(4)~20mA
Actual force	500N~600N	Output signal	0(2)~10VDC, 0(4)~20mA
Type of control	proportional	Voltage input impedance	>100K
Power consumption	7.5VA	Current input impedance	<0.50K
Motor	Synchronous motor with permanent magentic	Voltage output load	>1K
Nominal stroke	25mm	Current output load	<0.5K
Running speed	1.7 s/ mm (60Hz)	Up and down dead band	≤1.5%
Enviromental temperature	-10~50℃ (Operation condition)	Sensitivity	≤1%
Enviromental humidity	≤95% RH(40℃) (Operation condition)	Material of bracket	Aluminum die casting (surface anti-rust process)
IP Degree	IP42	Material of cover	ABS engineering plastic
Running mode	Up/ down straight travel	Net weight of product	1.4 Kg

Wiring



After assembling TR500-X...actuator with TL...,TW... or TF... valve body, connect AC 24V power supply. Then press down "CALIBRATION" button on PCB for over 3 seconds until the running light flickers:

- Calibration starts

- The actuator moving to 1 (actuator stems retracts until up limit position), running light flickering

-The actuator moving to 0 (actuator stems extends until down limit position), running light flickering - written the result in CPU, calibration is finished ( total process need approx.180 seconds) After Calibration:

Running light show Green when actuator stem extends.

Running light show Red when actuator stem retracts.

## Remarks:

1. When in calibration, actuator can not be controlled by input singal.

2. Each time the type of input signal / output signal be changed, and valve body is replaced, repeat calibration steps.



S2 Switch	Function	Description	
1	Flow character	ON	LOG: equal-percentage
		OFF	LIN: equal-linear
2	otarting of input	ON	20%:the starting input / output signal is 20% (namely 4~20mA or 2~10V)
		OFF	0:the starting input / output signal is 0 (namely 0~20mA or 0~10V)
3	Type of input signal	ON	II: input current signal
		OFF	UI: input voltage signal
4	Type of output	ON	IO: Output current signal
	signal	OFF	UO: Output voltage signal
5	()nerating mode	ON	DA:DA mode (when input signal is increasing, the actuator stem extends )
		OFF	RA: RA mode (when input signal is increasing, the actuator stem retracts)
6	Losing input signal mode	ON	DW: When lose input signal (voltage type), the minimum control signal When lose input signal (current type), the minimum control signal
		OFF	UP: When lose input signal (voltage type), the maximum control signal When lose input signal (current type), the minimum control signal
7	Output signal mode	ON	DF: when the actuator stem retracts to limit position,output signal will be minimum value when the actuator stem extends to limit position, output signal will be maximum value
		OFF	RF: when the actuator stem extends to limit position, output signal will be minimum value when the actuator stem retract to limit position, output signal will be maximum value
8	Sonsitivity	ON	HS: the high sensitivity of input signal ≤1%
		OFF	LS: the low sensitivity of input signal ≤1.5%

## **Heat-Timer Settings**



## at-Timer Settings

Flow: Linear Start Signal: 0 (0-10V) Input Signal: Voltage Output Signal: Voltage Direction: Stem retracts/Up on signal Increase Input Signal Loss Position: Stem extends/Down Output Signal: Minimum Signal when Stem extends/Down Sensitivity ≤ 1%





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-90mm (3.54in)