TCN-20/40/100/200 Series

Electric Actuator

◎ Ultra-small size, delicate appearance
◎ Rated torque:200/400/1000/2000Nm
◎ Enclosure level：IP67
◎ Mechanical port：ISO5211（F05/F07）
◎ Output shaft：Female octagonal: 17X17@10 22X22@20/40
　　　　　　　　Male square : 12X12@05 14X14@10 22X22@20/40 30X30@100/200
◎ Adopt high performance brushless motor,
　overall actuator could be used 10,000 times *1
※ TCN series means die-casting aluminum casing,
　surface passivation spray-paint.

TCN-20/40
(L223-W176-H132)

TCN-100/200
(L280-W190-H185)

Product Model	Rated Voltage	Time	Additional Function	Remarks
TCN Series-N Normal on/off model	DC24V AC24/110/220/380V	10S@05/10 10/30S@20/40 40S@100 80S@200 20S@05 30S@10/20/40 60S@100 100S@200	HTR(anti-condensation heater)	Dry contactor feedback Feedback signal is asynchronous with actual arrival
TCN Series-C Intelligent on/off model	DC24V AC24/110/220V	10S@05/10/20/40 40S@100 80S@200 20S@05 30S@10/20/40 60S@100 100S@200	A(alarm signal output) HTR(anti-condensation heater)	Feedback signal is synchronous with actual arrival *2 PUL speed adjustment PWM speed adjustment@DC Series 1.3" OLED screen Perform 2-way/3-way/4-way mode
TCN Series-T Intelligent modulating model	DC24V AC24/110/220V	10S@05/10/20/40 40S@100 80S@200 20S@05 30S@10/20/40 60S@100 100S@200	A(alarm signal output) HTR(anti-condensation heater)	1.3" OLED screen Control feedback mode： 4-20mA/0-20mA/0-10mA 0-5V/1-5V/0-10V/2-10V *3
TCN Series-B Intelligent bus model	DC24V AC24/110/220V	10S@05/10/20/40 40S@100 80S@200 20S@05 30S@10/20/40 60S@100 100S@200	HTR(anti-condensation heater)	RS485，CANBus2.0 1.3" OLED screen On/Off model has PUL Bus on/off model(ON/OFF/B33) Bus modulating model, modulate precision is 1%
TCN Series-R Intelligent wireless model	DC24V AC24/110/220V	10S@05 2/10S@10/20 10/30S@40 40S@100 80S@200 15S@05 4/30S@10/20 30S@40 60S@100 100S@200	HTR(anti-condensation heater)	Wireless ON/OFF model(ON/OFF) 1.3" OLED screen Wireless modulating model, modulate precision is 1% Communication frequency: 433/868/915MHZ LORA: The max is 2.5km (cleared area) ENOCEAN:20-100m*4

Notice：*1. Test condition: Rated load, test at factory environment of 25℃ temperature and 50% humidity , lead the result from 2 times switching cycle,
which will be influenced by different load and working environment.
*2. The relay feedback is dry feedback signal, which will be disappeared when power-cut, and then will be recovery when power-on.
*3. The control terminal adopts two ways independence input: One way is 0-10V,2-10V,0-5V,1-5V . The other is 0-20mA,4-20mA,0-10mA.Both could be selected by menu.
The feedback terminal also adopts two ways independence output: One way is 4-20mA , the default is output . The other is 2-10V ,the default is output .
Both of them could be changed to 0-20mA or 0-10V output.
*4. The OCEAN mode of wireless model provide self-powered telecontrol switch, while the LORA mode provide wireless centralized controller.
Wireless model doesn't have mechanical manual function. But under power-on condition it could be control valve on or off by key-press and menu in local.

PWM:　The influence of speed adjustment to torque, the lower speed ,the smaller torque ,the max will be reduce more than 35%.
PUL:　Speed adjustment has little influence to torque, the torque would be reduce about 15%
HTR:　Anti-condensation heater ,built-in module, when the internal temperature is below 25℃,the actuator will turn on heating function, which power is 2W.
A:　Means fault feedback signal, which is relay dry feedback signal.

Ocean Controller　　**Lora Controller**

天津特克执行器有限公司
Tianjin T.Crystal Actuator Co.,Ltd