Terminal Type Potentiometer Transducer MODEL TZ-5BA



Input Specification

- mpar opcomoation					
Code No.	Total resistan	ce Inpu	it range		
1	100Ω to $10k\Omega$	0 to 100%			
For Code Limit o Span Note :	of specifications More than 50 No dip swithe Inging a Dip swith Dip switch	s % s can be use		ecification. t range is possible. Input range 10 to 90%	
	ON	0 to 80%		10 to 100%	
		0 to 90%	ON	20 to 90%	
		0 to 100% (Factory setting)	ON	20 to 100%	
	ON 1234	10 to 80%	ON 1 2 3 4	30 to 100%	

Note : Always maniqulate each dip switch with the power turned off.

Output Specification

Code No.	Output signal	Allowable Loadresistance	
0	0 to 5V DC	More than $2k\Omega$	
1	1 to 5V DC		
2	0 to 10V DC	More than $4k\Omega$ Negative output:more than $10k\Omega$	
3	-10 to 10V DC		
4	-2 to 2VDC	Mana these 200	
5	-2.5 to 2.5VDC	More than 2kΩ Negative output:more than 10kΩ	
6	-5 to 5VDC		
7	0 to 4VDC	More than 2kΩ	
A	4 to 20mADC	Less than 550Ω	
В	0 to 20mADC		
Y	Other than the above		

For code No. Y

Limit of specifications

Voltage output : Less than +15 VDC and more than -12 VDC Minimum span : Less than +27 VDC and more than 0.06 VDC (Road resistance : $10k\Omega$ at the output exceeding 10V, and a negative output) (Base accuracy : ± 0.15 %F.S and temperature characteristic : ± 0.03 %F.S/°C for a span of less than 1V) Current output : Less than +20 mADC and more than 0 mADC

Minimum span : Less than +20 mADC and more than 0 mADC Minimum span : Less than +20 mADC and more than 1 mADC Outputs can be reversed for both voltage and current outputs.

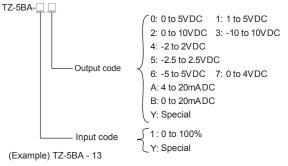
General Specifications

Base Accuracy :	±0.1 %F.S (At 25±2°C)				
Power supply variation :	±0.06 %F.S				
Load resistance variation :±0.06 %F.S					
Temperature characteristic : ±0.02 %F.S/°C					
Response time :	Less than 50msec (TYP)(0→90%)				
Error caused by input range setting change : Within ±2 %F.S					
Front adjustments :					
Insulation resistance :	Between input and output/power supply ;				
	More than 100MΩ at 500 VDC				
Dielectric strength :	Between input and output/power supply ;				
-	For 1 min. at 1500VAC				
Power supply voltage :	24VDC ±10 %				
Consuming current :	Less than 35mA (24VDC at voltage output)				
-	Less than 50mA (24VDC at current output)				
Operating ambient temperature : -5 to 50°C					
Operating ambient humidity : Less than 90 %RH (No-condensing)					
Storage temperature :	-10 to 70°C				
Storage humidity :	Less than 60%RH (No-condensing)				
Case material :	ABS rasin (Black) 94V-2				
Weight :	Approx. 80g				
Vibration resistance :	Frequency: 10 to 55Hz; ampliutde(half): 0.15mm				
	to 10 sweeps of 5 min each in X, Y, and Z directions				

Features

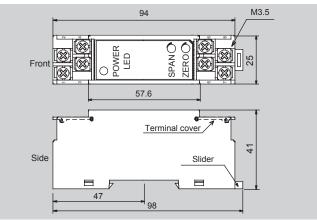
- DC power supply 24V DC
- DIN rail mounting
- Input/Output/Power supply isolated

Ordering Code

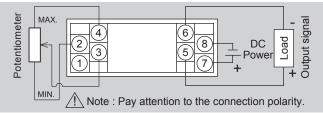


Potentiometer resistance : (total resistance 100Ω to $10k\Omega$)

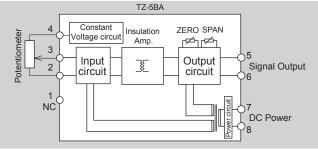
Dimensions



Connection Diagram



Block Diagram



Watanabe Electric Industry Co.,Ltd