

TYF-60 Series

CONTROLLER

With LED

Level indication is standard equipment.

Digital output + Analog output

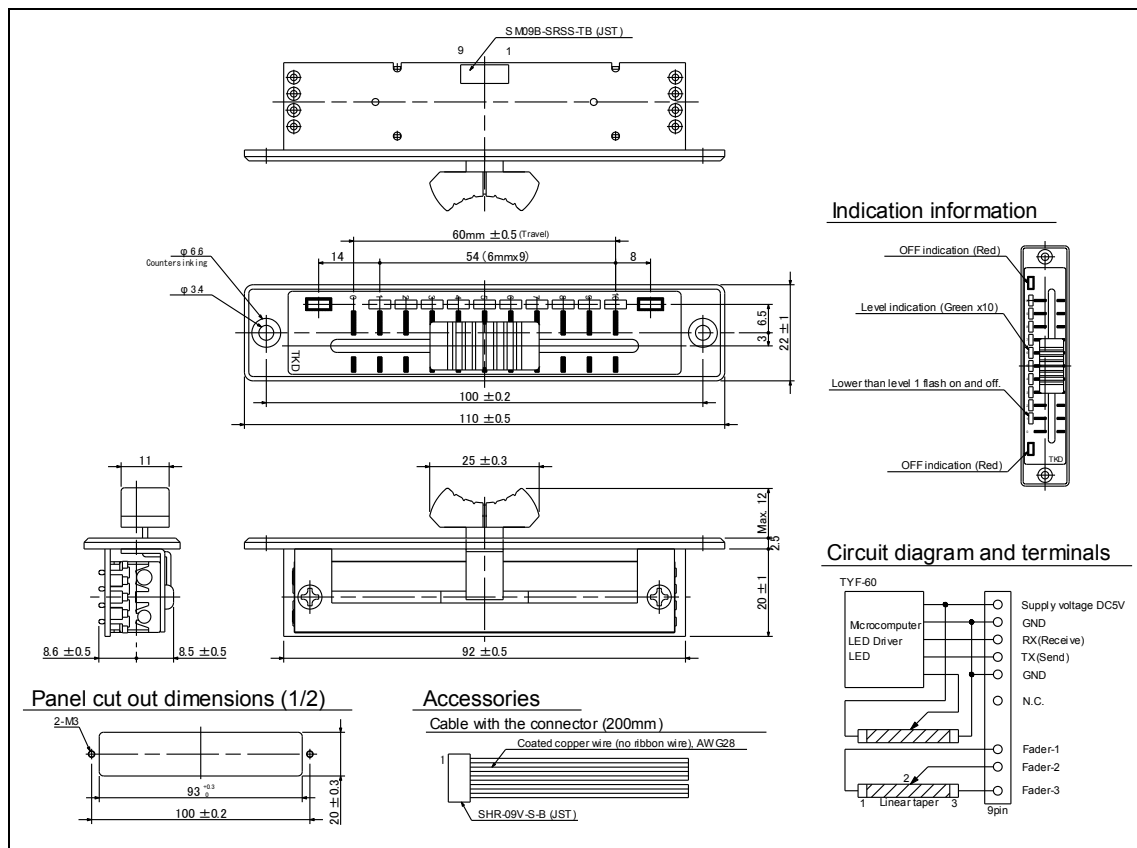
There are the digital output and fader output.

Customizable LED indication

Outside operation for LED indication is also possible.



Dimensions



Model number

TYF - **60** - **W**
Product type Travel: 60mm Knob color

R: Red, BK: Black, W: White, IV: Ivory,
OR: Orange, Y: Yellow, GR: Green, BL: Blue,
LB: Light blue, GY: Grey, BR: Brown

Transmission and reception specifications

Universal Asynchronous Receiver Transmitter						
Transmission data	8bit (ASCII)					
Movement contents	Send a position of the fader.		Receive data and display LED.			
Transmission and reception	Transmitted to others by TYF-60.		TYF-60 is received by others.			
Protocol Byte 1	STX(02H)		STX(02H)			
Byte 2	Bit7, bit6, bit5, bit4 (ASCII Code)		Bit7, bit6, bit5, bit4 (ASCII Code)			
Byte 3	Bit3, bit2, bit1, bit0 (ASCII Code)		Bit3, bit2, bit1, bit0 (ASCII Code)			
Byte 4	SUM (Byte2~3)		SUM (Byte2~3)			
Byte 5	ETX(03H)		ETX(03H)			
Communication format						
Format	Start	Data	Parity	Stop	Band late	Communication line
	1bit	8bit	non	1bit	9600bps	Full duplex

Electrical specifications

TYF-60 Series	
Communication system	Serial communication (UART Level 5V)
Operating voltage	5V: ±0.25V
Power consumption	0.5W Max.
Resolution	8bit (0~255)
Output Law	1bit = 60mm/256 (Linear)

Electrical specifications (Fader Output)

TYF-60	
Total resistance	10kohm ±20%
Taper	Linear (Potentiometer circuit), Linearity: ±5%
Residual resistance	50ohm or less
Voltage proof	1 Min. at AC500V
Insulation resistance	50Mohm or more at DC500V
Max rating	0.1W
Sliding noise level	47mV or less (by JIS C 6443)
Sliding life	100,000 Cycles Min. (18cycles/min, Sliding noise level: Less than 100mV)

Mechanical specifications

TYF-60	
Stroke length	60mm±0.5mm
Operating force	0.1~0.3N
Attached Parts	M3 screw
Stopper strength	30N
Push-pull strength	30N

General specifications

TYF-60 Series	
Temp.range	-10 to +70 deg C (Operating), -15 to +75 deg C (Storage)
Relative humidity	90%RH (No condensation)

Note

- * Non-waterproof.
- * Do not give severe shocks.
- * Move to one end in Control-bar on the occasion of knob wearing, and can break into it slowly.