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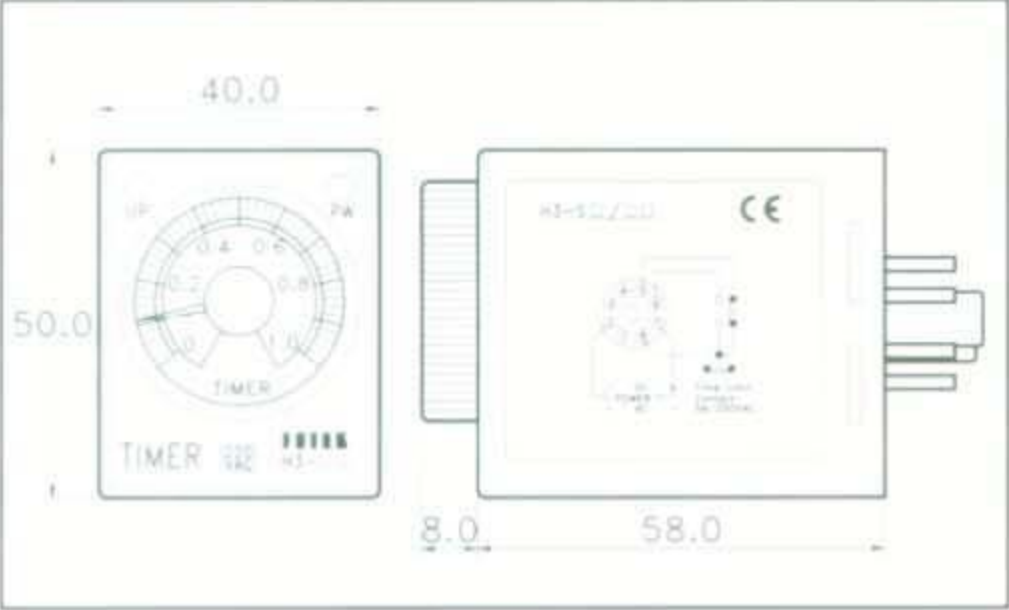
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Type	Multi-Range ON Delay Timer	Single-Range ON Delay Timer	Multi-Range Flicker	Y-△ Starter
Model	H3-M□	H3-□□	H3-FK-M3	H3-TRD-30S
Figure				
Range	M1:1S/10S/1M/10M M3:3S/30S/3M/30M M6:6S/60S/6M/60M M1H:1M/10M/1H/10H M3H:3M/30M/3H/30H M6H:6M/60M/6H/60H	1S/3S/6S/10S 30S/60S/3M/6M 10M/30M/60M 3H/6H/10H/100H	3S/30S/3M/30M	30S Change Time:0.2S 0.1~0.5S is Available ON Demanded
Weight	155g	155g	140g	105g

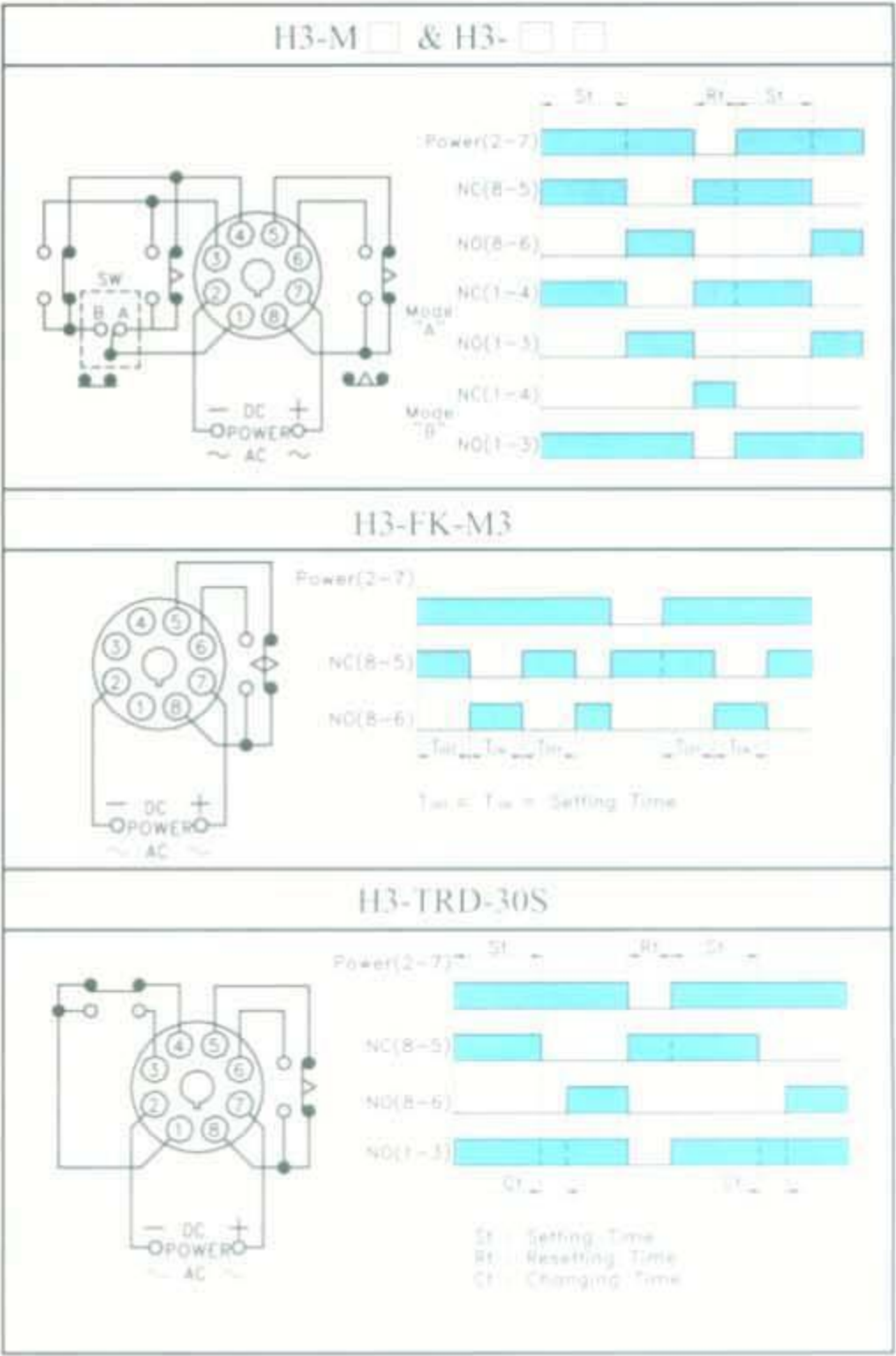
Specification

Power Supply	12 or 24 VAC/DC or 110V or 230V or 380VAC 50/60Hz
Wattage Consump.	3VA max.
Control Output	Relay
Contact Rated	10A
Repetivity	0.2% of F.S max.
Setting Accuracy	5% of F.S max.
Reset Time	0.1S max.
Insulation Strength	100M Ω /500VDC
Dielectric Strength	2.5KV/1 min.
Circumstance	-20 ~ +60 °C , 35~85%RH
Life of Relay	20 X 10 ⁴ Times

Dimension



Connection & Timing Diagram

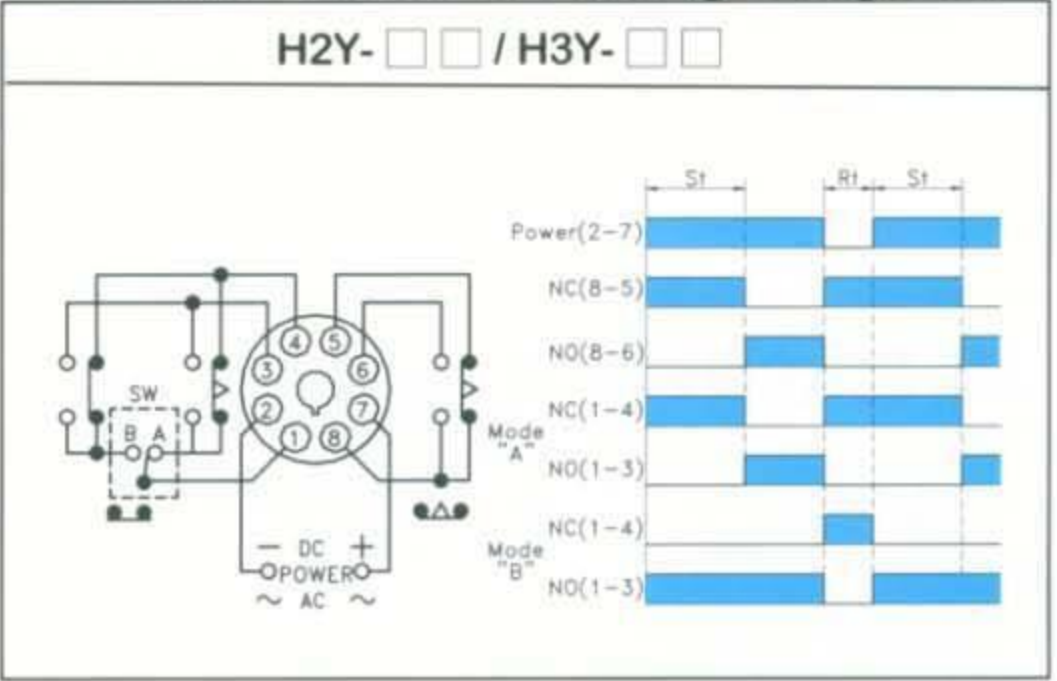


Outline	STPY	H3
Model	H2Y-□□	H3Y-□□
Figure		
Range	1S, 3S, 6S, 10S, 30S, 60S, 3M, 6M, 10M, 30M, 60M, 3H, 10H, 30H, 60H	
Wight	165g	160g

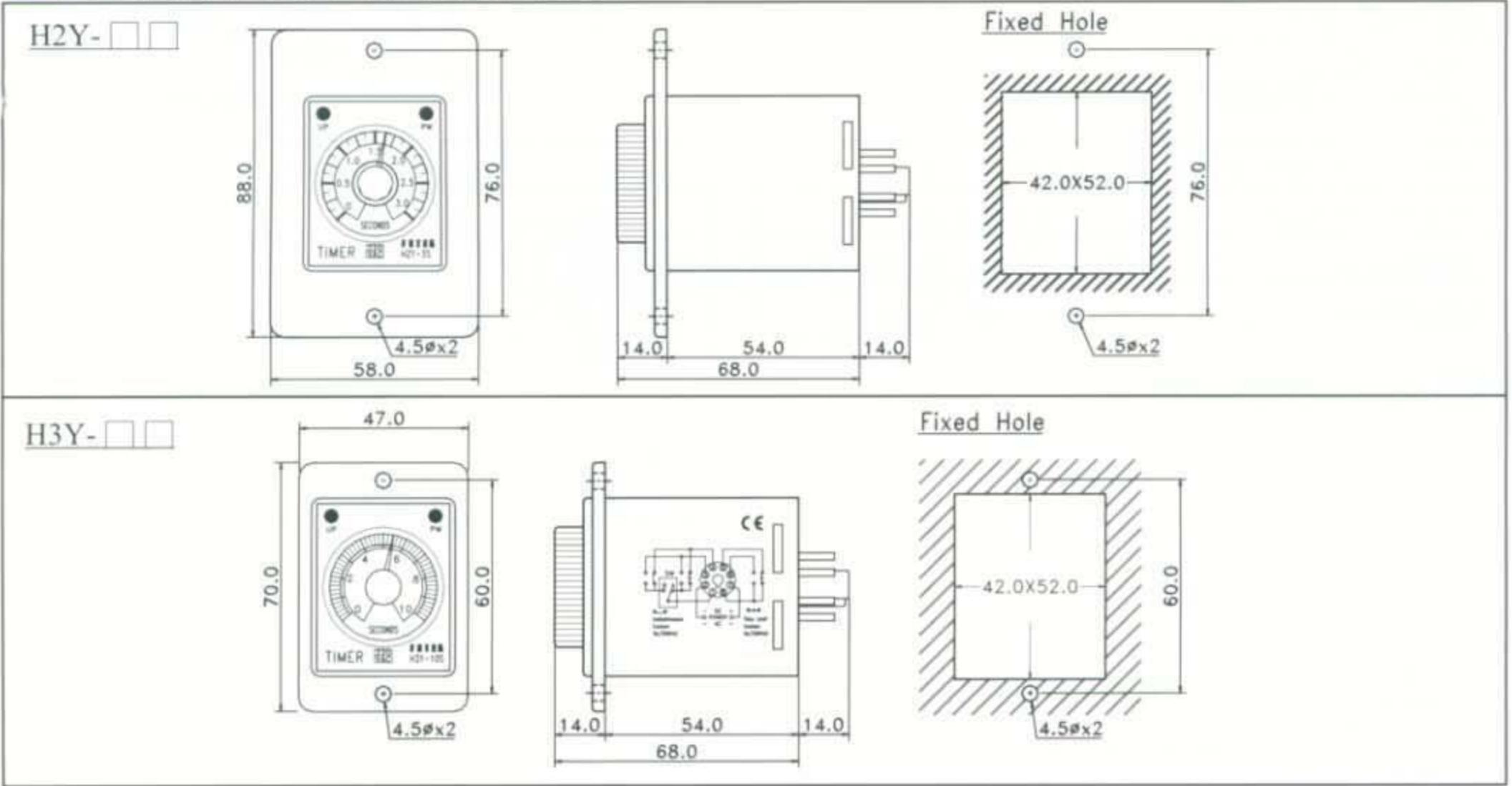
Specification

Power Supply	12 or 24 VAC/DC or 230V or 380 VAC 50/60Hz
Wattage Consump.	3VA max
Control Output	Relay
Contact Rated	10A
Repetivity	0.2% of F.S max.
Setting Accuracy	5% of F.S max.
Reset Time	0.1S max.
Insulation Strength	100M Ω /500VDC
Dielectric Strength	2.5KV/1 min.
Circumstance	-20 $^{\circ}$ ~+60 $^{\circ}$ C, 35~85%RH
Life of Relay	20 X 10 ⁶ Times

Connection & Timing Diagram



Dimension & Fixed Hole

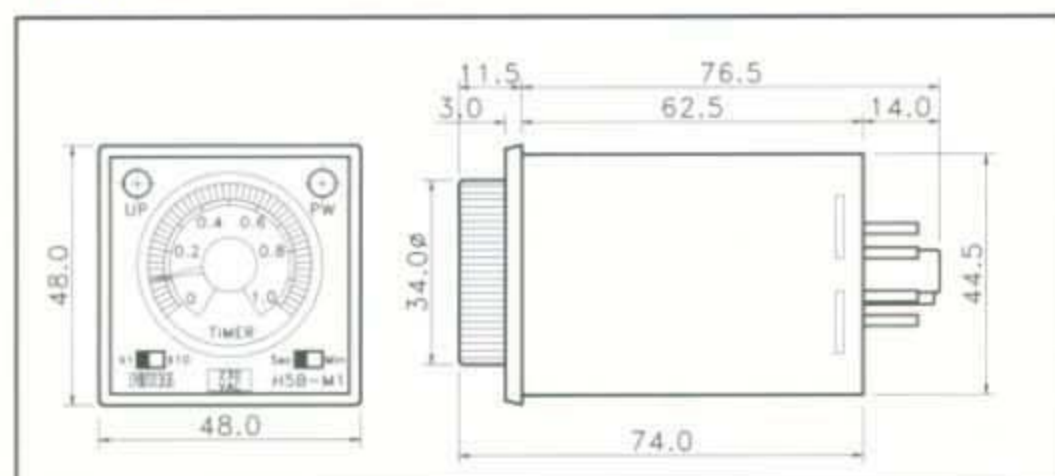


Type	Multi-Range ON Delay Timer	Multi-Range Flicker
Model	H5B-M ☐	H5B-FK-M3
Figure		
Range	M1 : 1S/10S/1M/10M M3 : 3S/30S/3M/30M M6 : 6S/60S/6M/60M M1H : 1M/10M/1H/10H M3H : 3M/30M/3H/30H M6H : 6M/60M/6H/60H	3S/30S/3M/30M
Weight	160g	150g

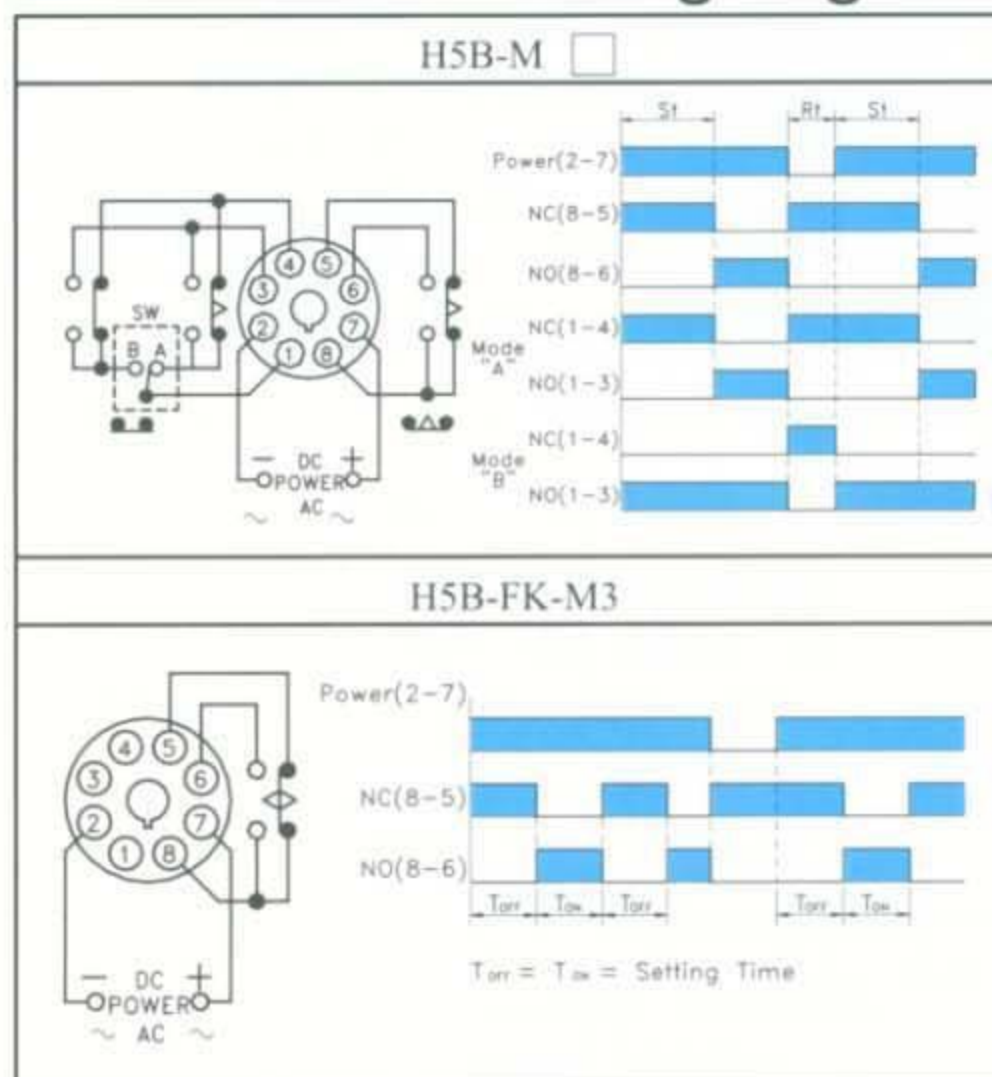
Specification

Power Supply	12 or 24 VAC/DC or 110V or 230V or 380VAC 50/60Hz
Wattage Consump.	3VA max.
Control Output	Relay
Contact Rated	10A
Repetivity	0.2% of F.S max.
Setting Accuracy	5% of F.S max.
Reset Time	0.1S max.
Insulation Strength	100M Ω /500VDC
Dielectric Strength	2.5KV/1 min.
Circumstance	-20° ~ +60 °C , 35~85%RH
Life of Relay	20X 10 ⁶ Times

Dimension



Connection & Timing Diagram

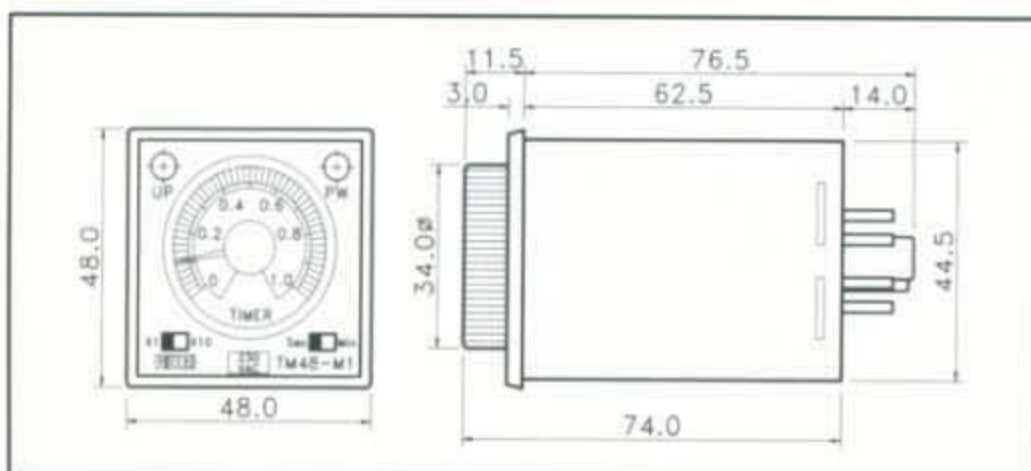


Type	Multi-Range ON Delay Timer	Multi-Range Flicker
Model	TM48-M □	TM48-FK-M3
Figure		
Range	M1 : 1S/10S/1M/10M M3 : 3S/30S/3M/30M M6 : 6S/60S/6M/60M M1H : 1M/10M/1H/10H M3H : 3M/30M/3H/30H M6H : 6M/60M/6H/60H	3S/30S/3M/30M
Weight	145g	135g

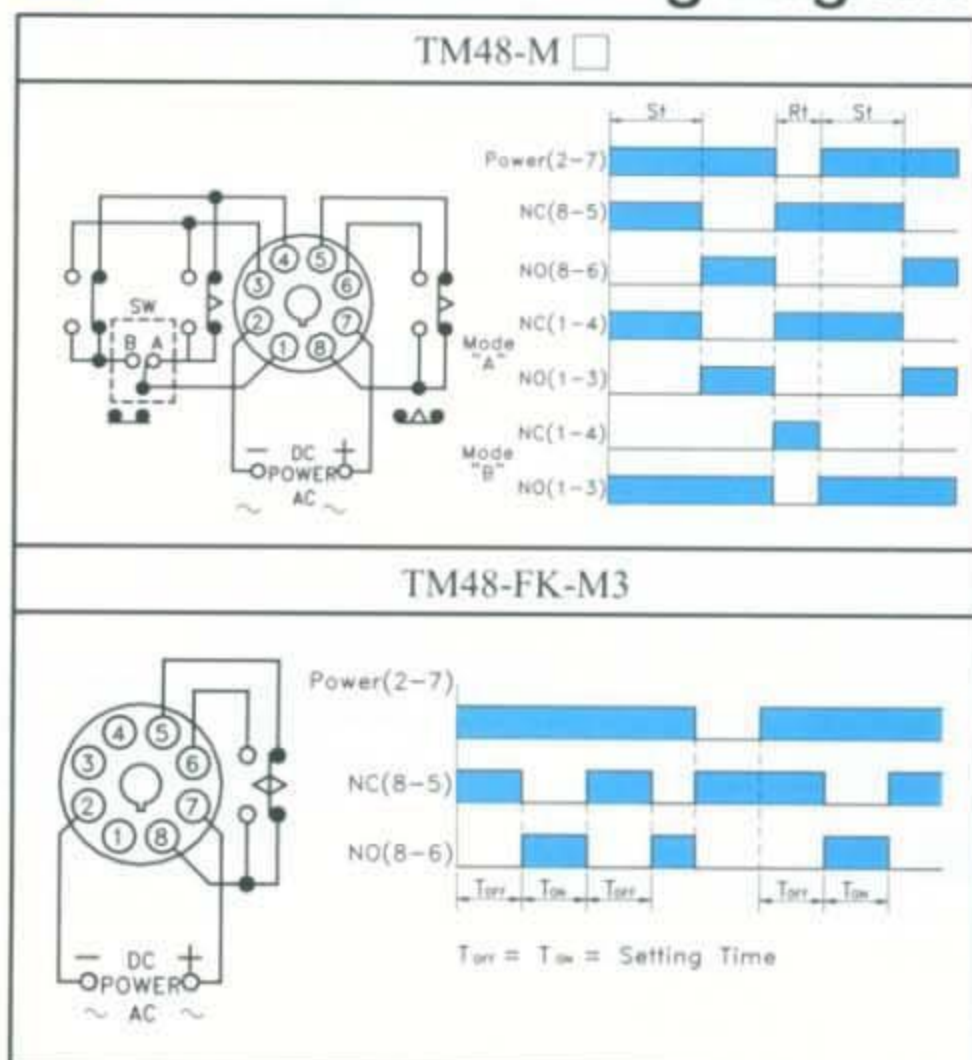
Specification

Power Supply	24 ~ 250 VAC/DC 50/60Hz
Wattage Consump.	3VA max.
Control Output	Relay
Contact Rated	10A
Repetivity	0.2% of F.S max.
Setting Accuracy	5% of F.S max.
Reset Time	0.1S max.
Insulation Strength	100M Ω /500VDC
Dielectric Strength	2.5KV/1 min.
Circumstance	-20° ~ +60 °C , 35~85%RH
Life of Relay	20 X 10 ⁶ Times

Dimension



Connection & Timing Diagram

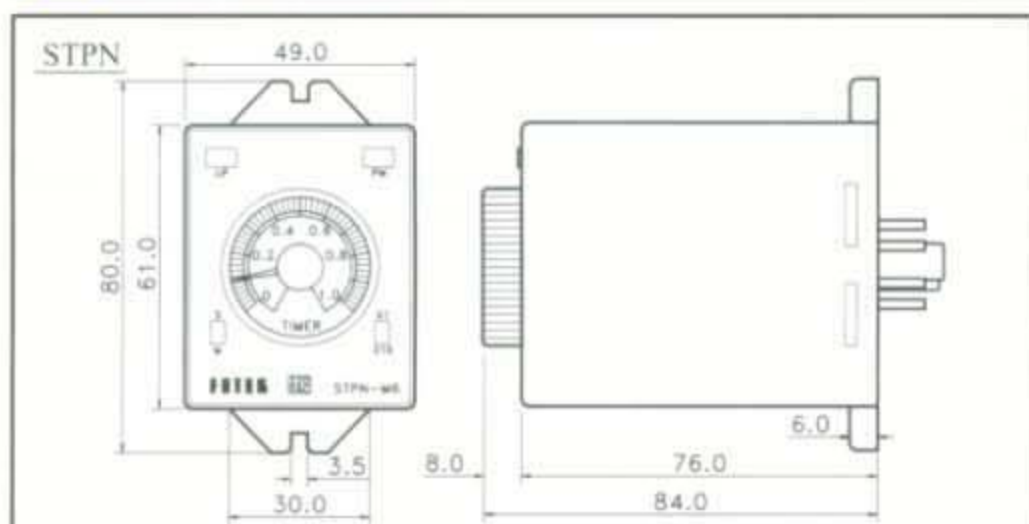


Type	Multi-Range ON Delay Timer		Multi-Range Flicker	
Model	STPN-M ☐	STPY-M ☐	STPN-FK-M3	STPY-FK-M3
Figure				
Range	M1 : 1S / 10S / 1M / 10M M3 : 3S / 30S / 3M / 30M M6 : 6S / 60S / 6M / 60M M1H : 1M / 10M / 1H / 10H M3H : 3M / 30M / 3H / 30H M6H : 6M / 60M / 6H / 60H		3S/30S/3M/30M	
Weight	190g	195g	185g	190g

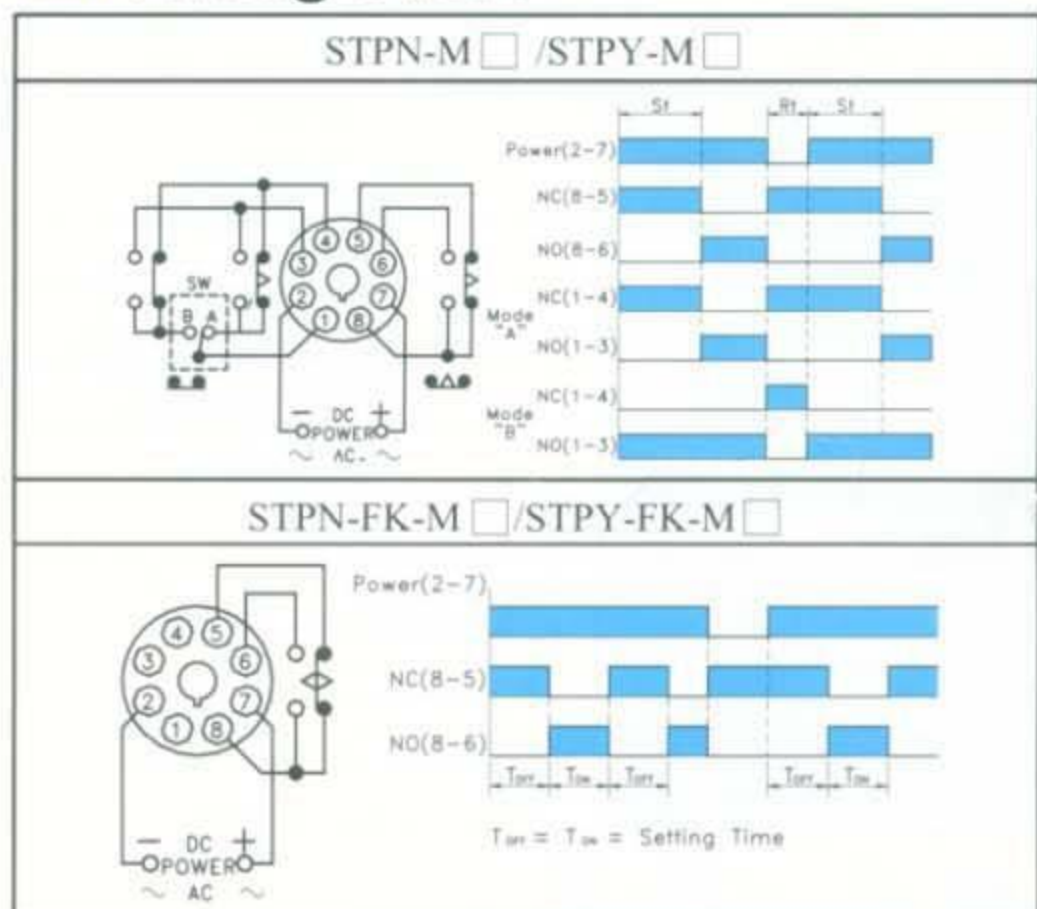
Specification

Power Supply	12 or 24 VAC / DC or 110 or 230V or 380VAC 50 / 60 Hz
Wattage	3 VA max.
Control Output	Relay
Contact Rated	10A
Repetivity	0.5% of F.S
Setting Accuracy	5% of F.S
Reset Time	0.1Sec Max.
Insulation Strength	100 M Ω / 500 VDC
Dielectric Strength	2.5KV / 1 min
Circumstance	-20° ~ +60°C, 35 ~ 85% RH
Life of Relay	20 X 10 ⁶ Times

Dimension



Timing Chart

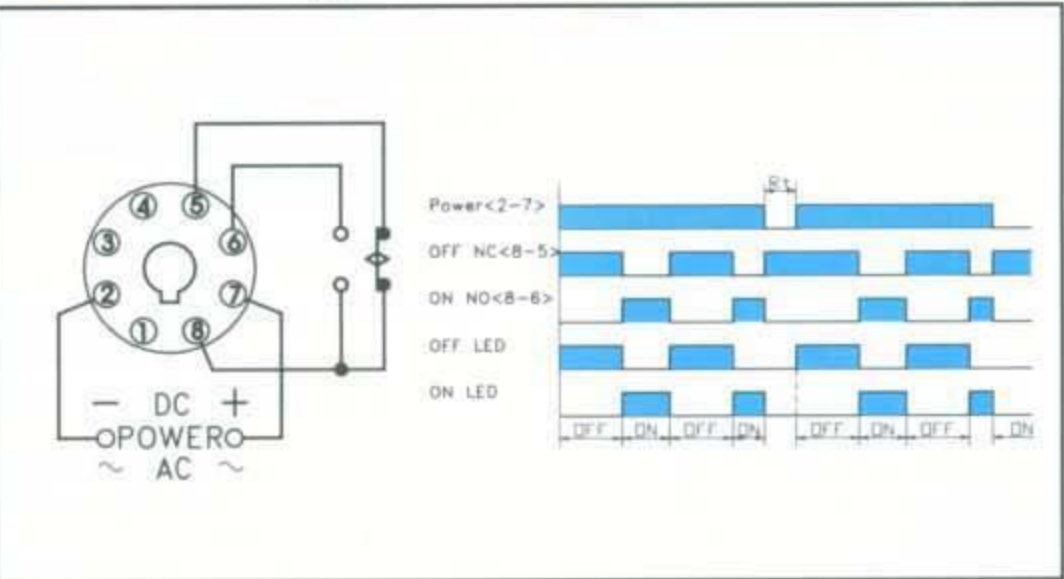


Type	Multi-Range Twin Timer		Multi-Range Defrosting Timer	
Model	TDVN-M □	TDVY-M □	TDFN-12H	TDFY-12H
Figure				
Range	M3 = 3S/30S/3M/30M M6 = 6S/60S/6M/60M M3H = 3M/30M/3H/30H M6H = 6M/60M/6H/60H		Cooling : 12H Defrosting : 30M	
Weight	190g	195g	190g	195g

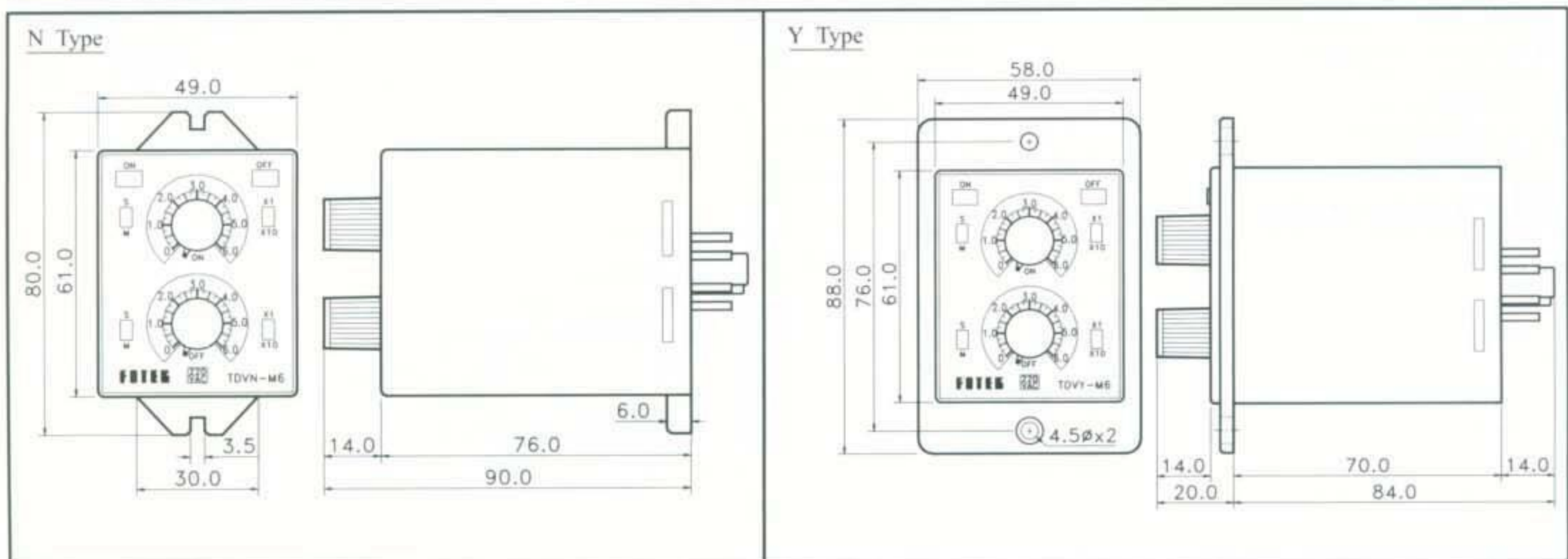
Specification

Power Supply	12 or 24 VAC/DC 110V or 230V or 380VAC 50/60Hz
Wattage	3VA max.
Control Output	Relay
Contact Rated	10A
Repetivity	0.5% of F.S
Setting Accuracy	5% of F.S
Reset Time	0.1 Sec Max.
Insulation Strength	100M Ω /500VDC
Dielectric Strength	2.5KV/1 min.
Circumstance	-20 $^{\circ}$ ~+60 $^{\circ}$ C , 35~85%RH
Life of Relay	20 X 10 ⁶ Times

Timing Chart



Dimension



☆High Repetivity : 0.2% of F.S. Max.

☆Reset Time : 0.1S Max.

☆Setting Accuracy : 5 % of F.S. Max.

☆CE Approved : EMC , ESD & LVD

☆Guiding of Model :

MY - 10S - 2P - 220V

①

②

③

④

① : Series

② : Range

③ : Contact Poles

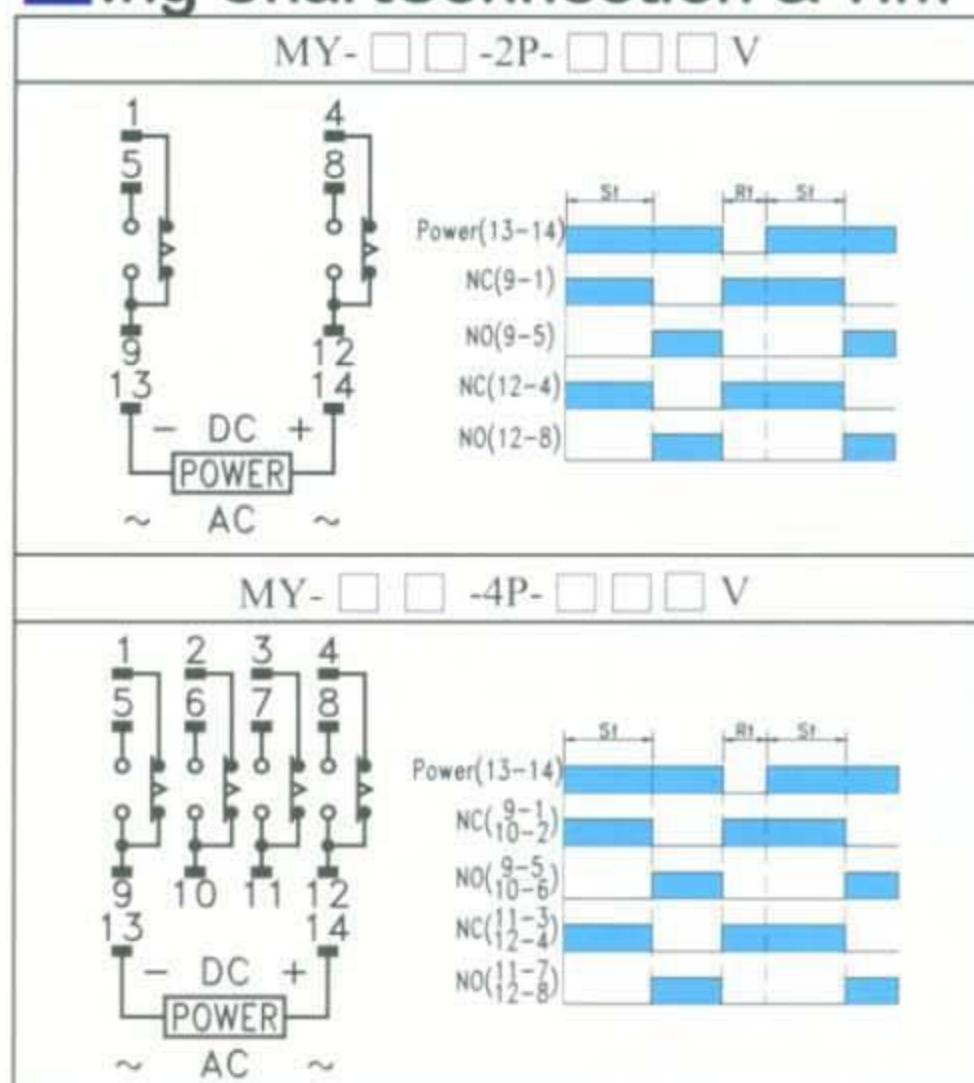
④ : Operating Voltage



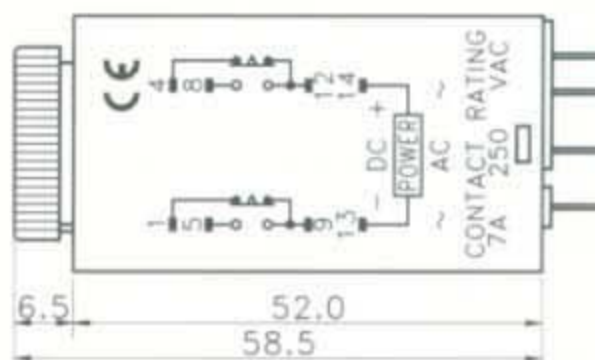
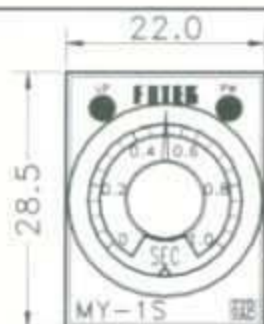
Specification

MODEL	MY-□□-□P-□□□V
Range	1S/3S/6S/10S/30S 60S/3M/6M/10M/30M 60M/3H/6H/10H/30H
Power Supply	12 or 24 VDC 110V or 220VAC 50/60Hz
Wattage Consump.	3VA max.
Control Output	Relay
Contact Rated	7A/250VAC
Repetivity	0.2% of F.S max.
Setting Accuracy	5% of F.S max.
Reset Time	0.1S max.
Insulation Strength	100MΩ/500VDC
Dielectric Strength	2.5KV/1 min.
Circumstance	-20~+60°C, 35~85%RH
Life of Relay	20 X 10 ⁶ Times

Ing ChartConnection & Tim



Dimension

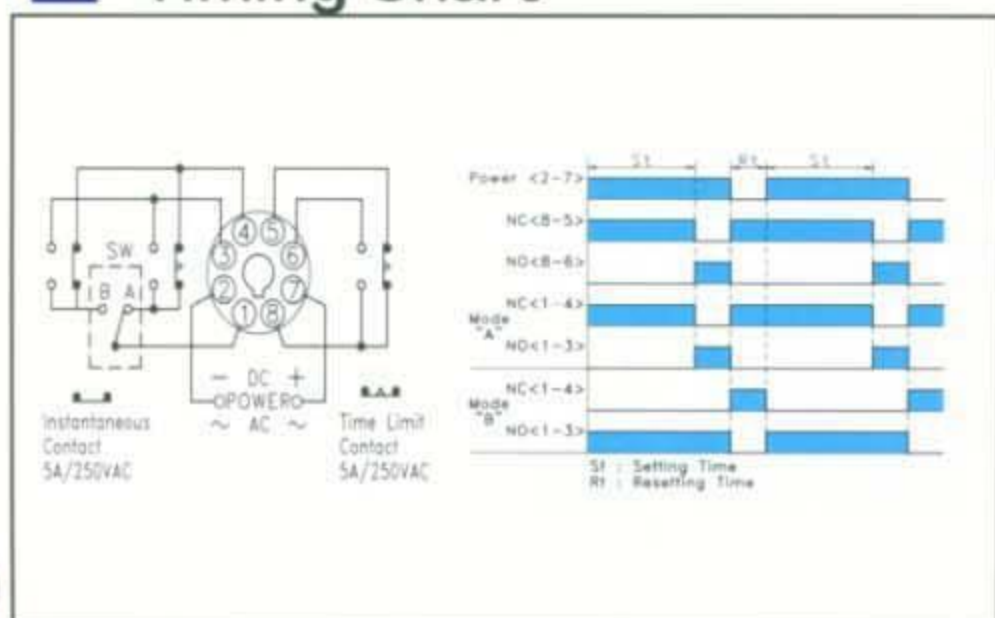


Outline	50 x 60			48 x 48
Model	SY-2D	SY-3D	SY-4D	H5T-4D
Figure				
Range	0~99	0~999	0~9999	0~9999
Display	0.56" Red LED	0.56" Red LED	0.4" Red LED	0.36" Red LED
Weight	145g	150g	155g	160g
Unit	S, 0.1S, 0.01S, M, 0.1M, H or 0.1H Selectable			

Specification

Power Supply	12V or 24VDC/AC or 90~250 VAC 50/60 Hz
Wattage	5VA max.
Control Output	A Two Limit Contact B Limit & Instantaneous
Output Method	Relay 10A
Control Method	Power ON Delay
Timing Method	UP or Down Selectable
Repetivity	0.1% of F.S
Setting Accuracy	0.05% of F.S
Reset Time	0.1S max.
Reset Method	Power OFF Reset
Insulation Strength	100 M Ω / 500 VDC
Dielectric Strength	2.5KV / 1 min
Circumstance	-20° ~ +60°C, 35 ~ 85% RH
Life of Relay	20 X 10 ⁶ Times

Timing Chart



Illumination

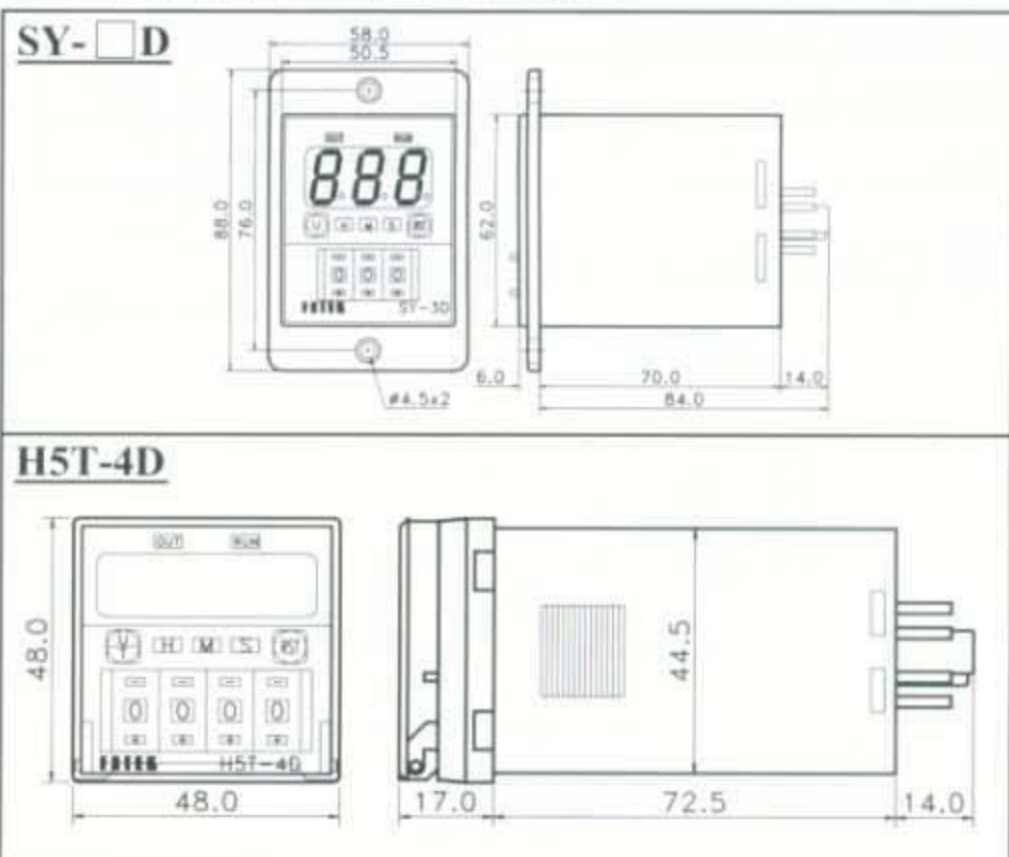
Unit : S → 0.1S → 0.01S → M → 0.1M → H → 0.1H

< Push Key  To Select The Unit >

Slide Switch

LK : To Lock Unit Selecting N : Up Timer
UL : To Unlock Unit Selecting R : Down Timer
A : Time Limit Contact
B : Instantaneous Contact

Dimension Chart

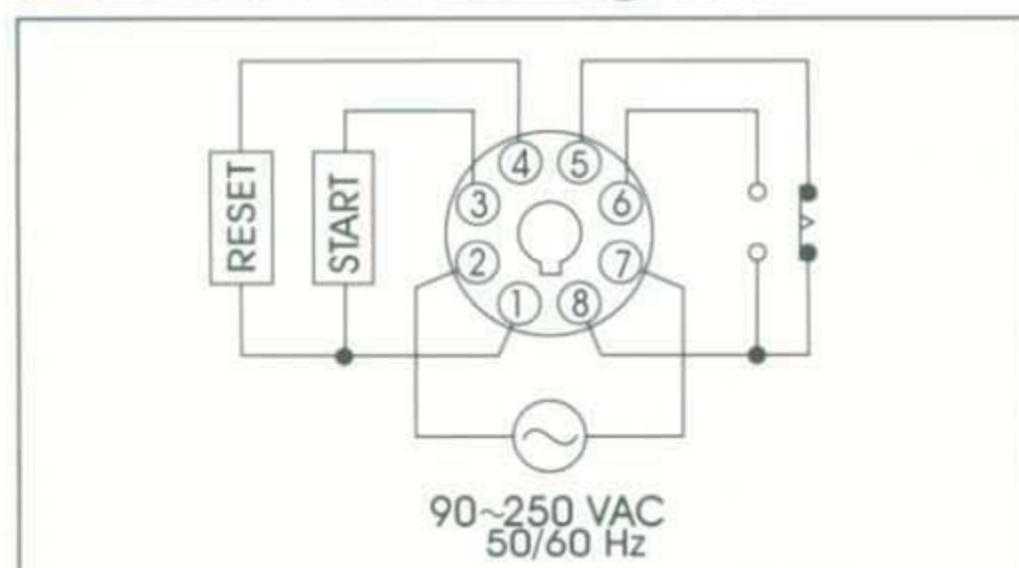


Outline	50 x 60			48 x 48
Model	STP-2D	STP-3D	STP-4D	H5M-4D
Figure				
Range	0~99	0~999	0~9999	
Display	0.56" Red LED	0.56" Red LED	0.4" Red LED	0.36" Red LED
Weight	150g	155g	160g	155g
Unit	S→0.1S→0.01S→M→0.1M→H→0.1H			Selectable

Specification

Power Supply	90~250 VAC 50/60 Hz
Wattage	5VA max.
Memory Method	EEPROM.
Timing Method	UP or Down Selecting
Time Input	Hi > 6V, Lo < 2V
Reset Input	Hi > 6V, Lo < 2V
Output Method	Relay, 10A
Output Control	N / R Selectable
Control Method	10 mode
DC Output	60 mA / 12 VDC
Delay Timer<t>	0.1~9.9 S
Insulation Strength	100 MΩ / 500 VDC
Dielectric Strength	2.5KV / 1 min.
Circumstance	-20° ~ +60°C, 35 ~ 85% RH
Life	20 X 10 ⁶ Timer

Connection Diagram



Illumination

Unit : S→0.1S→0.01S→M→0.1M→H→0.1H

< Push  &  Key To Select The Unit >

Slide Switch

"N" : Manual Reset

"R" : Auto Reset

"LK" : To Lock Unit Selection

"UL" : To Unlock Unit Selection

Inside DIP Switch

No.1 : ON=Memory

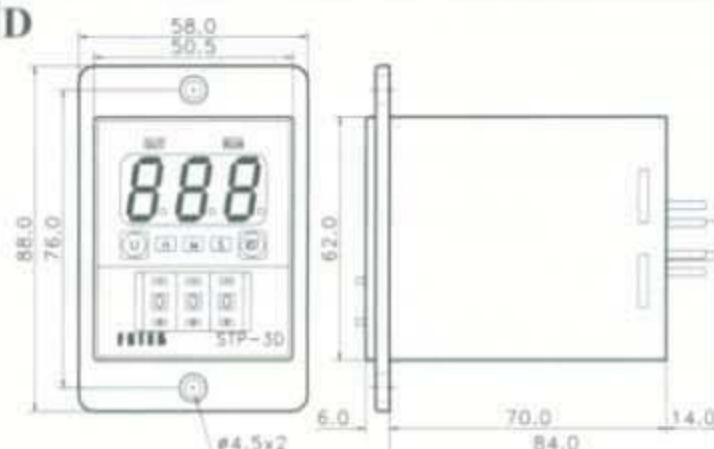
: OFF=Non-Memory

No.2 : ON=Down Timing

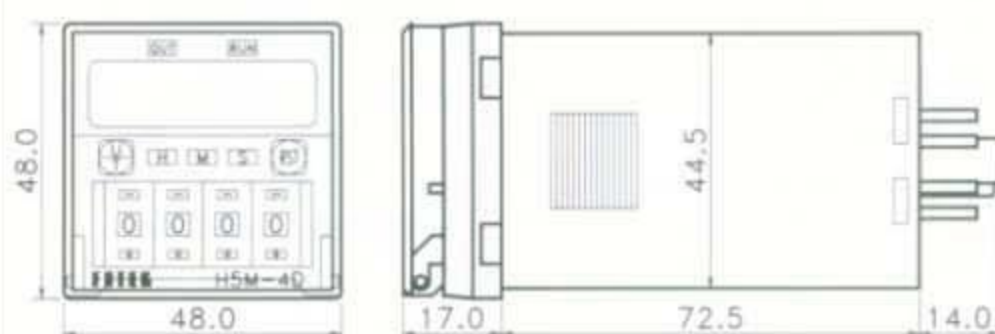
: OFF=UP Timing

Dimension

STP-□D



H5M-4D



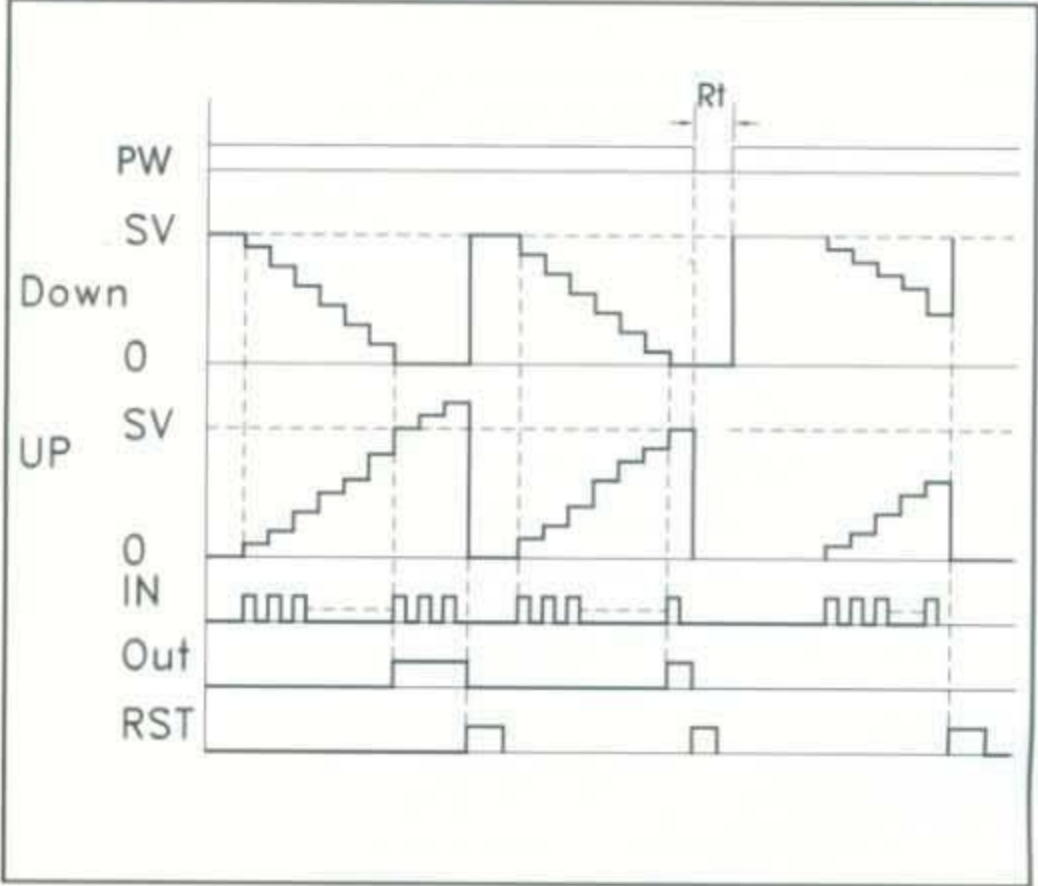
RS-0	Integrated Timer	RS-9	Flicker < B >
RS-1	Instant Input One Shot < A >	RS-2	Instant Input One Shot < B >
RS-3	Instant Input ON Delay < A >	RS-4	Instant Input ON Delay < B >
RS-5	Keep Input One Shot	RS-6	Keep Input ON Delay
RS-7	Input OFF Delay	RS-8	Flicker < A >

Digits	2 Digits	3 Digits	4 Digits
Model	SK-2D	SK-3D	SK-4D
Figure			
Range	0~99	0~999	0~9999
Display	0.56" 7-Segment LED	0.56" 7-Segment LED	0.4" 7-Segment LED
Weight	150g	155g	160g

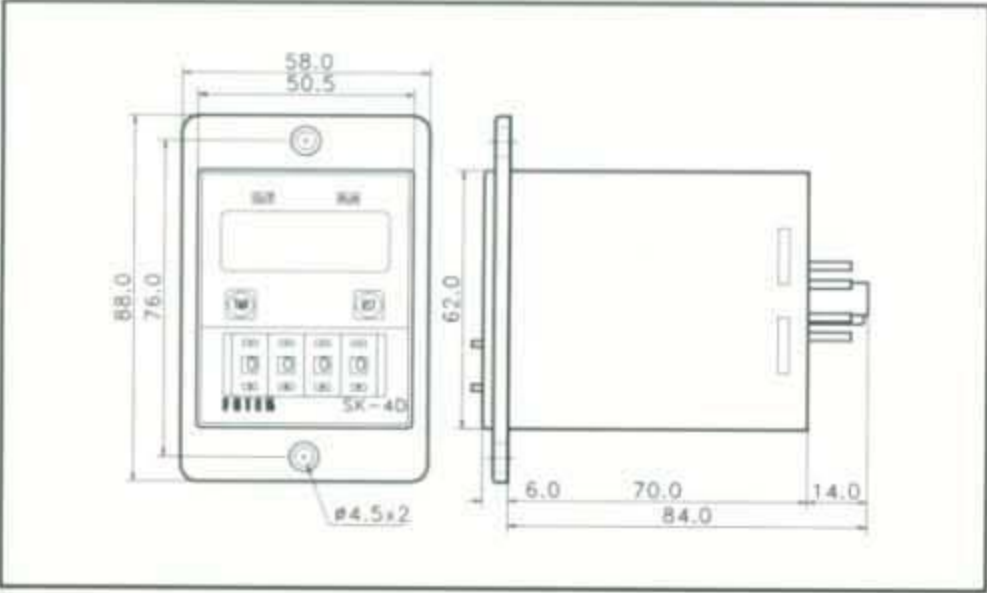
Specification

Power Supply	90~250 VAC 50/60 Hz
Wattage	5VA max.
Counting Method	UP or Down Counting
Response Frequency	30Hz
Count Input	Hi > 6V, Lo < 2V
Reset Input	Hi > 6V, Lo < 2V
Output Method	Relay
Output Control	Power ON Reset
Reset Time	0.1S max
Decimal Point	0, 1 or 2 Selectable
Insulation Strength	100 M Ω / 500 VDC
Dielectric Strength	2.5K / 1 min.
Circumstance	-20 $^{\circ}$ ~ +60 $^{\circ}$ C, 35 ~ 85% RH

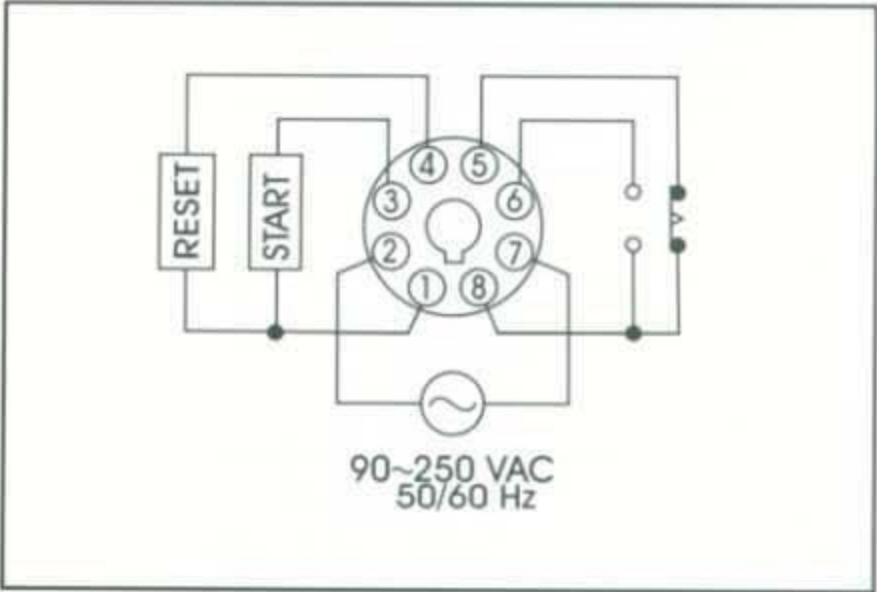
Output Timing Chart



Dimension



Connection Diagram



Ps.N Type Available Aiso

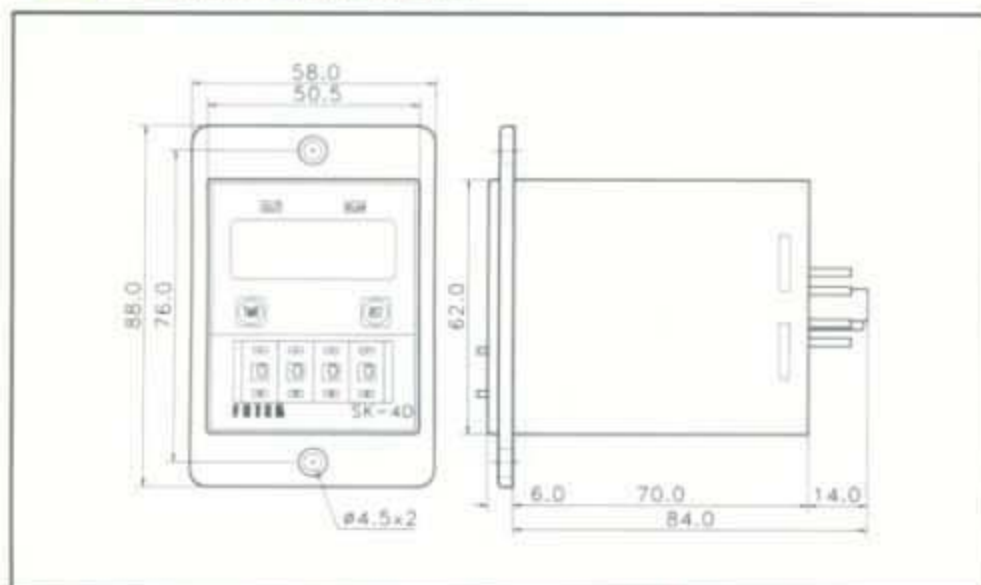


Digits	2 Digits	3 Digits	4 Digits
Model	SC-2D	SC-3D	SC-4D
Figure			
Range	0~99	0~999	0~9999
Display	0.56" 7-Segment LED	0.56" 7-Segment LED	0.4" 7-Segment LED
Weight	155g	160g	165g

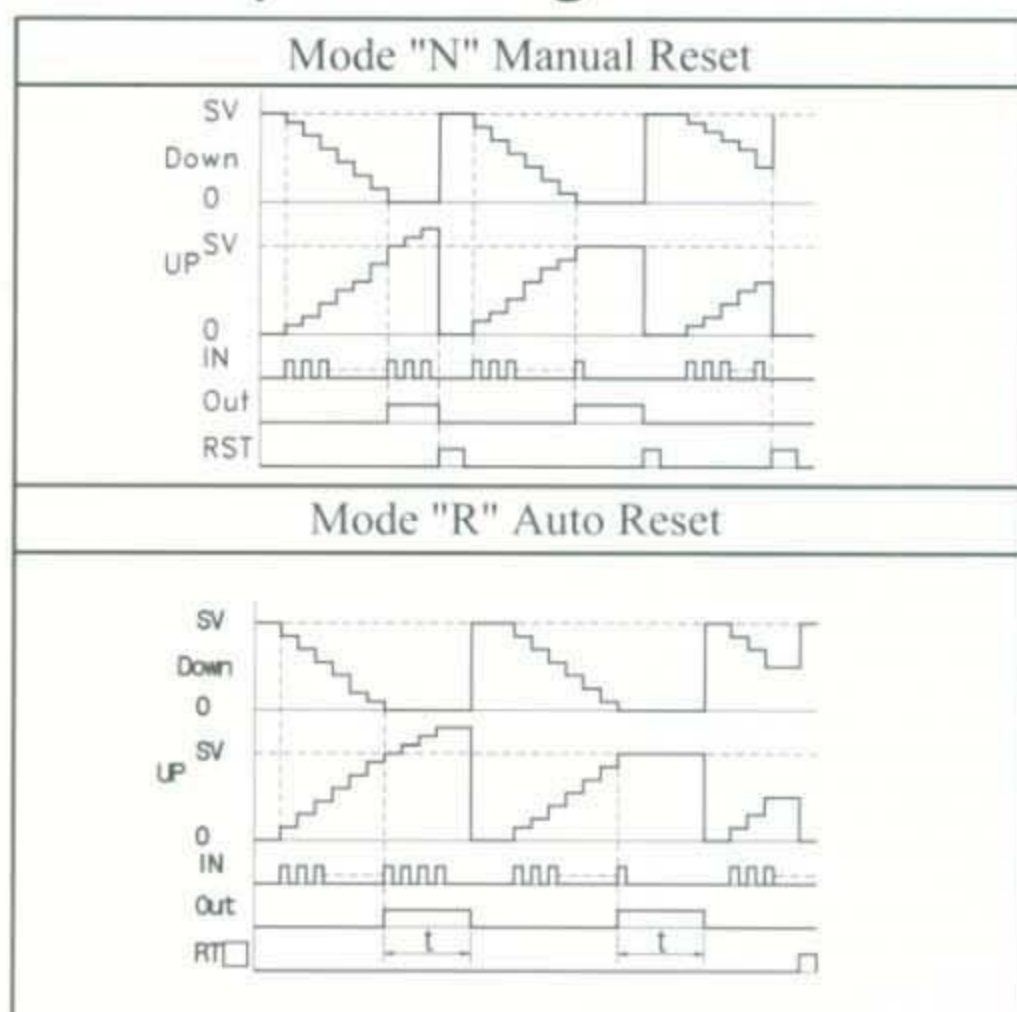
Specification

Power Supply	90~250 VAC 50/60 Hz
Wattage	5VA max.
DC Output	60 mV / 12 VDC
Memory Method	EEPROM or Non-Memory
Counting Method	UP or Down Counting
Response Freq.	Hi > 1 KHz, Lo < 30 Hz
Count Input	Hi > 6V, Lo < 2V
Reset Input	Hi > 6V, Lo < 2V
Output Method	Relay, 1a / 10A
Output Control	N or R Selectable
Decimal Point	0, 1 or 2 Selectable
Delay Timer	0.1~9.9 Sec
Insulation Strength	100 M Ω / 500 VDC
Dielectric Strength	2.5K / 1 min.
Circumstance	-20° ~ +60°C, 35 ~ 85% RH

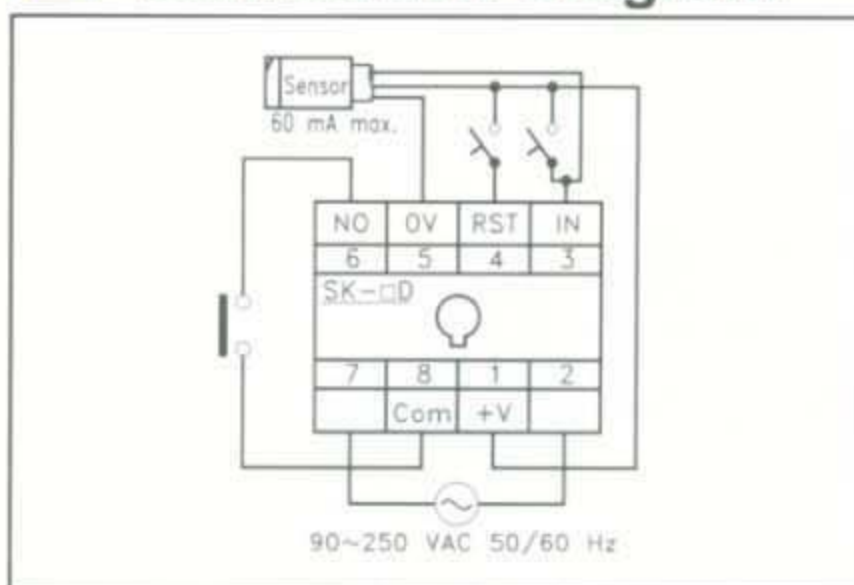
Dimension



Output Timing Chart



Connection Diagram



PS.N Type Available Also

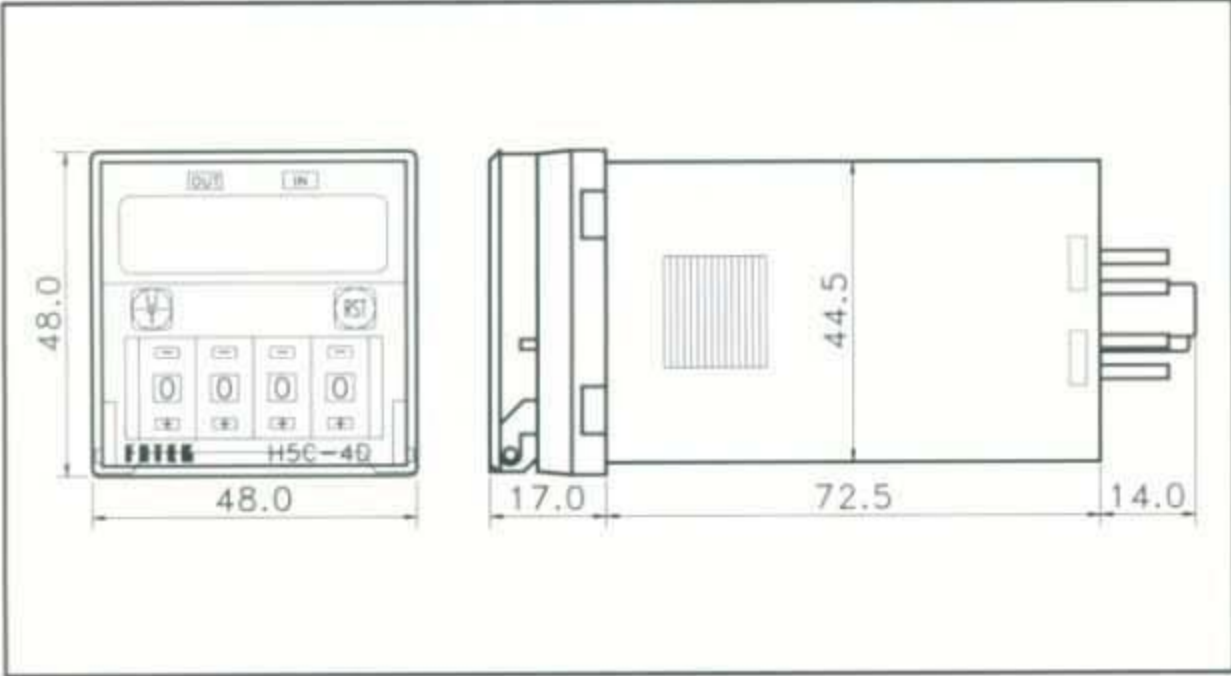
- ☆ DIN 48X48
- ☆ Up Counter or Down Counter Selectable.
- ☆ Decimal Point Selectable.
- ☆ Response Frequency : Hi < 1K Hz , Lo< 30 Hz Selectable.
- ☆ Output Control : Manual Reset or Auto Reset Selectable.
- ☆ Output Delay Time : 0.1S ~ 9.9 S
- ☆ DC Output : 60 mA /12 VDC
- ☆ Switching Power Supply : 90 ~ 250 VAC , 50 / 60 Hz



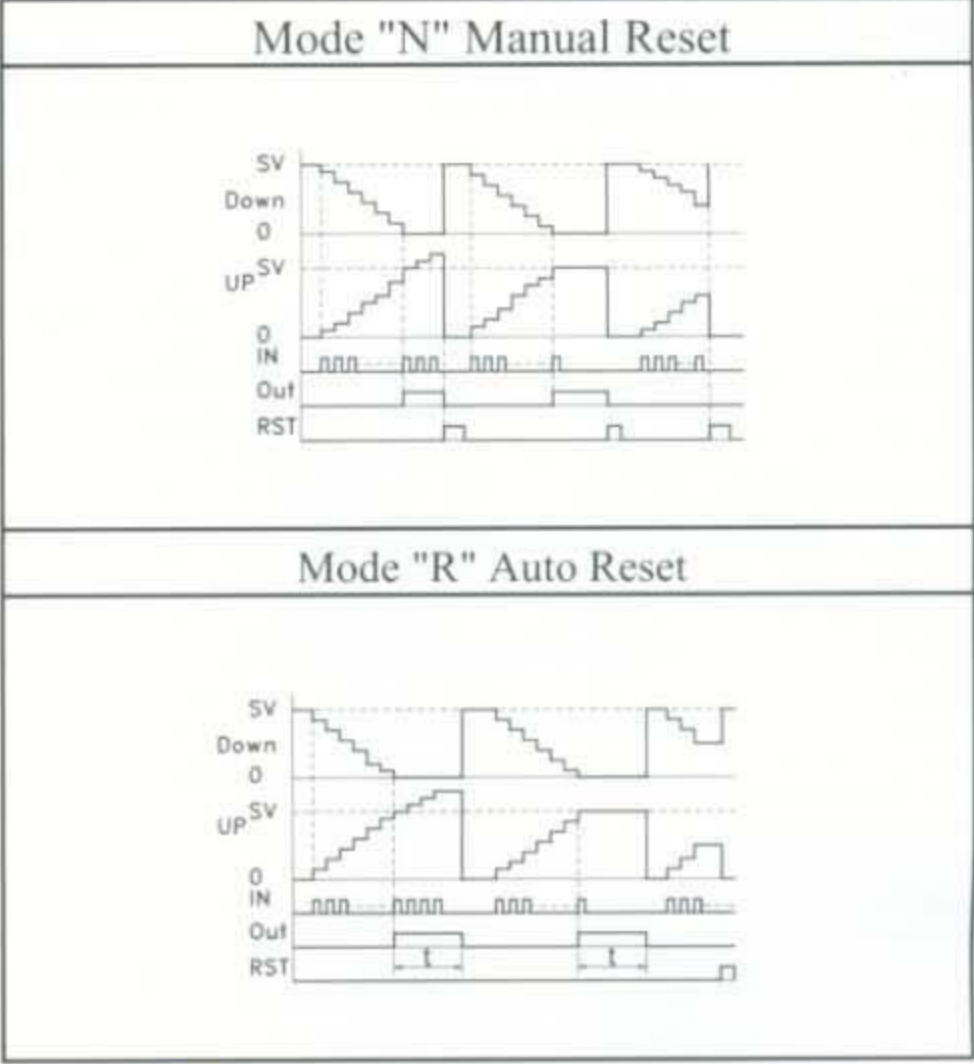
Specification

Model	H5C - 4D
Power Supply	90~250 VAC 50/60 Hz
Wattage	5VA max.
DC Output	60 mV / 12 VDC
Memory Method	EEPROM or Non-Memory
Counting Method	UP or Down Counting
Response Freq.	Hi < 1 KHz, Lo < 30 Hz
Count Input	Hi > 6V, Lo < 2V
Reset Input	Hi > 6V, Lo < 2V
Output Method	Relay, 1a / 10A
Output Control	N or R Selectable
Decimal Point	0, 1 or 2 Selectable
Delay Timer	0.1~9.9 Sec
Insulation Strength	100 M Ω / 500 VDC
Dielectric Strength	2.5K / 1 min.
Circumstance	-20° ~ +60°C, 35 ~ 85% RH

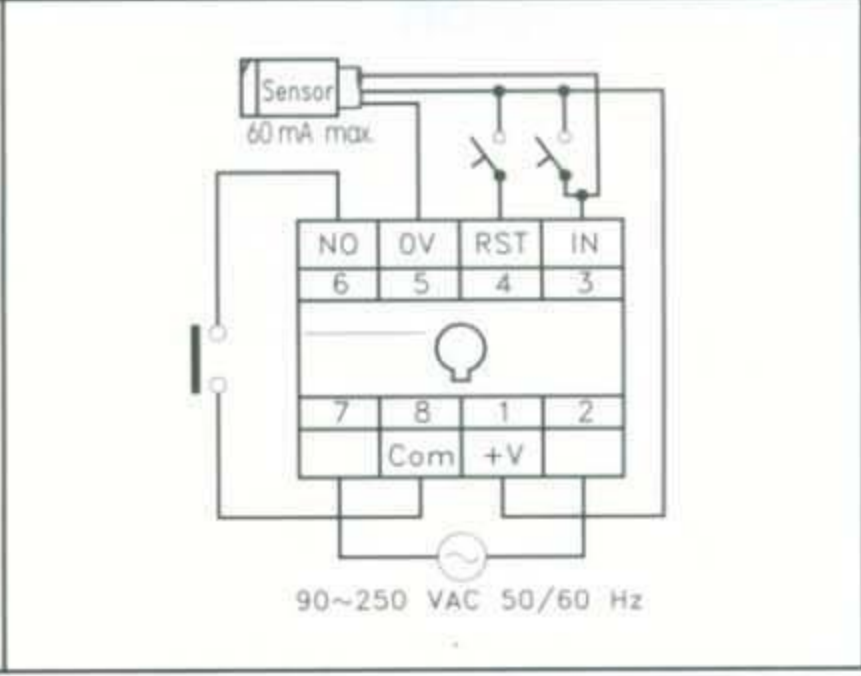
Dimension



Output Timing Chart



Connection Diagram

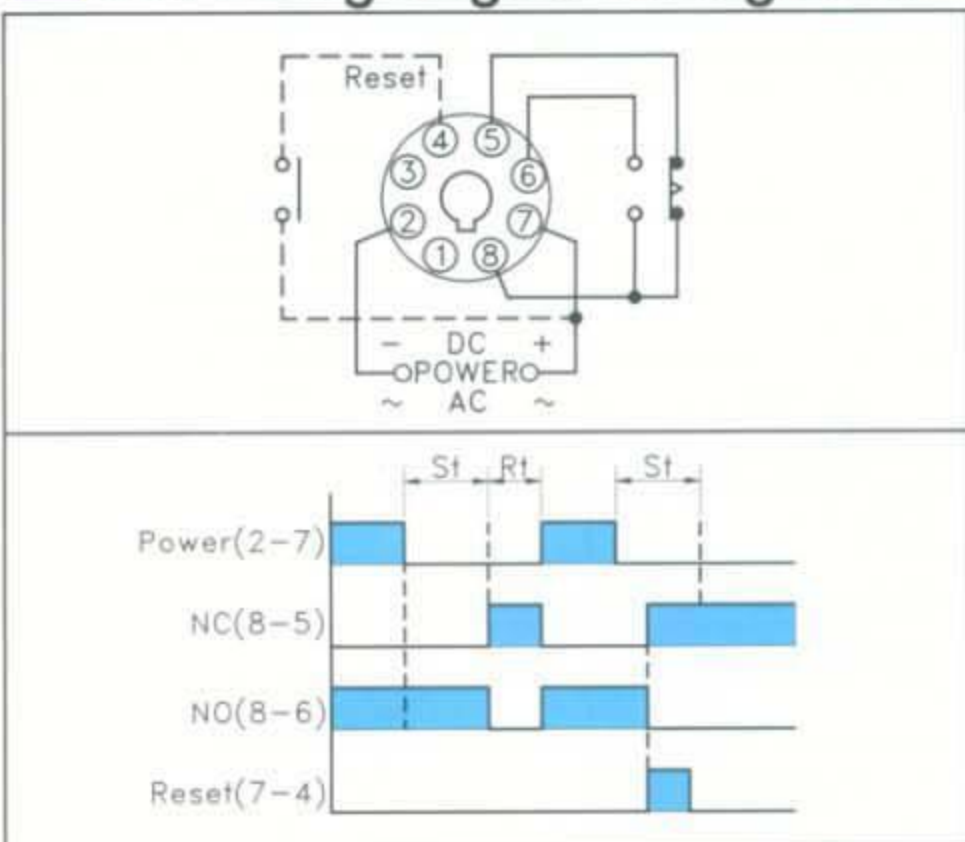


Outline	50x60	40x50	48x48
Model	TFN - ☐ ☐	H3-TF - ☐ ☐	H5B-TF - ☐ ☐
Figure			
Range	3S, 6S, 10S, 30S, 60S, 3M		
Contact Rated	5A/250VAC	1A/250VAC	5A/250VAC
Weight			

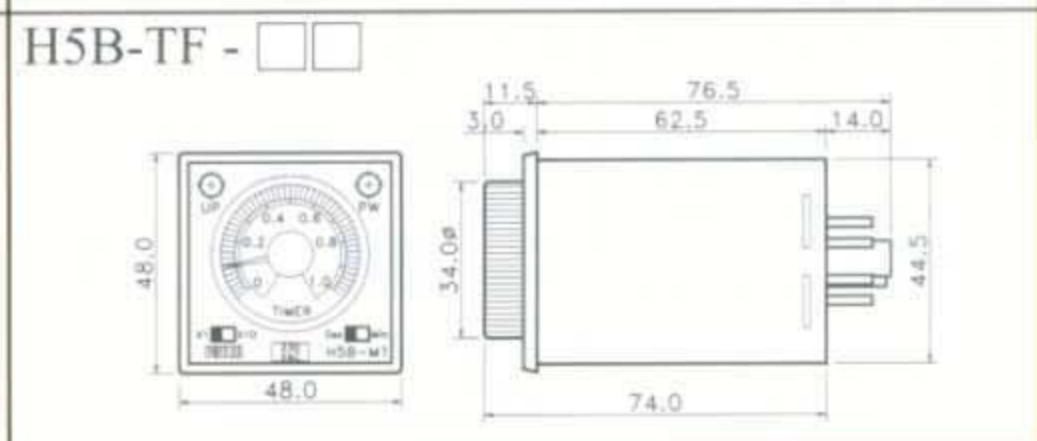
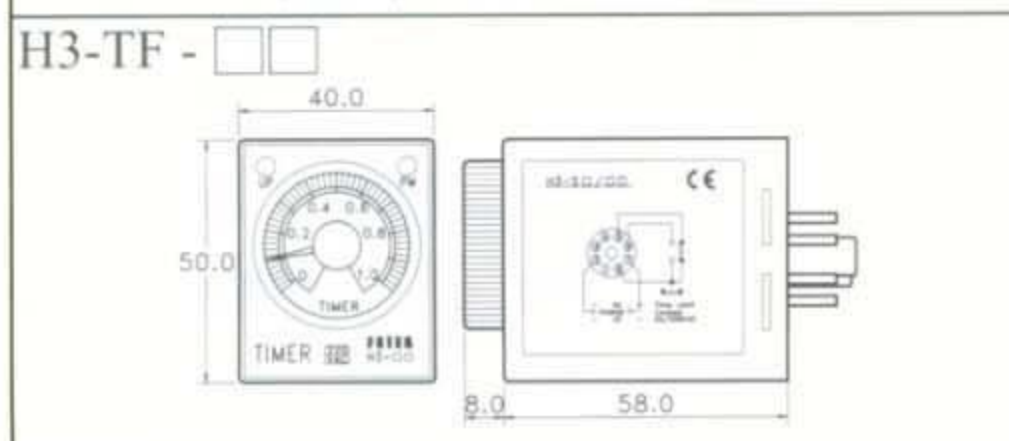
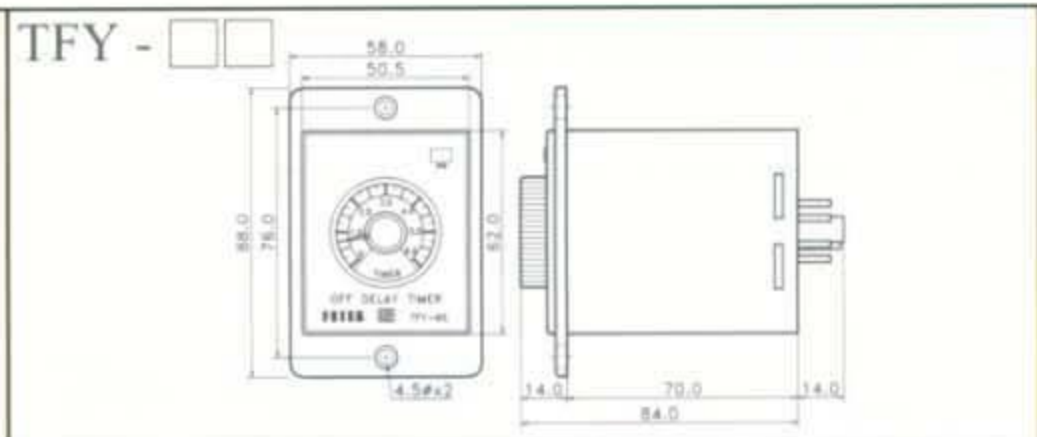
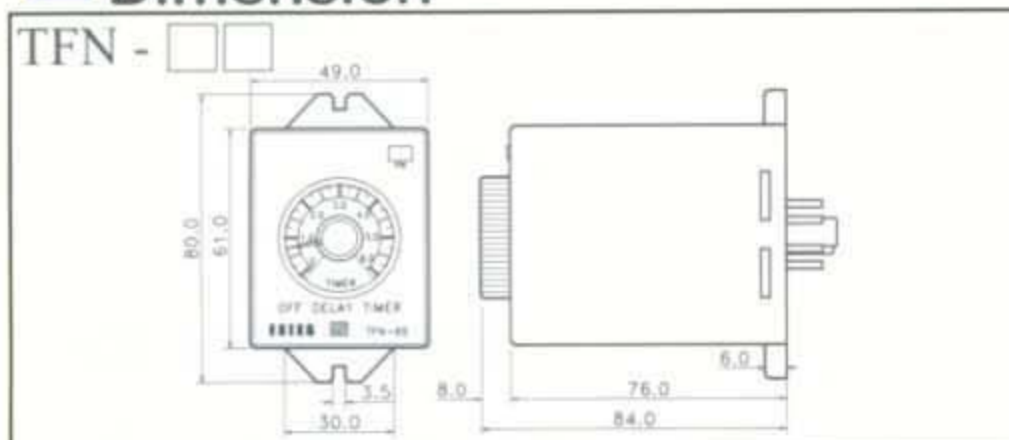
Specification

Item	Data
Power Supply	12V or 24 VAC/DC or 110V or 230V or 380VAC 50/60Hz
Wattage	3VA max.
Control Output	Relay < 1C >
Repetitive	0.5% of F.S.
Setting Accuracy	5.0% of F.S.
Reset Time	0.1sec Max.
Insulation Strength	100M Ω / 500 VDC
Dielectric Strength	2.5 KV / 1 Min.
Life of Relay	20 X 10 ⁵ Times
Circumstance	-20°C~+60°C, 35~85%RH

Connecting Diagram/Timing Chart



Dimension



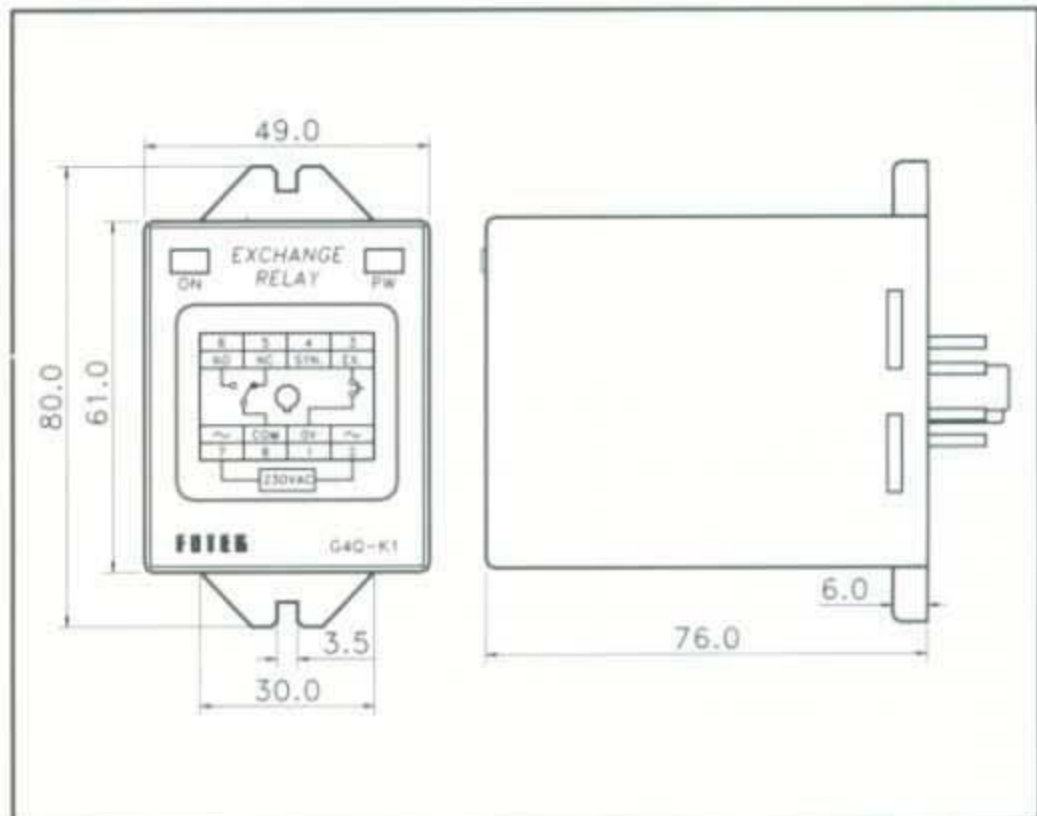
- ☆ G4Q-K1, One Relay NO/NC Exchange by Ex. Input.
- ☆ G4Q-K2, Two Relay NO Exchange by Ex. Input.



Specification

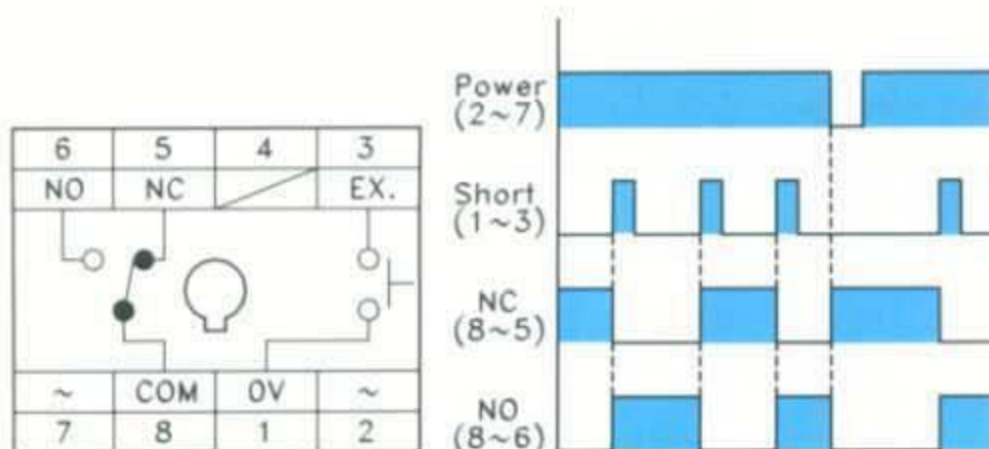
Model	G4Q-K1	G4Q-K2
Output Method	One Relay	Two Relay
Control Status	1a / 1b	2a
Power Supply	110V or 230V or 380V AC	
Frequency	50 ~ 60 Hz	
Wattage	3VA Max.	
Contact Rated	10A	
Switching Times	3600 Times / Hr	
Reset Time	0.1S Max.	
Dielectric Strength	2.5KV / 1 min.	
Insulation Strength	100M Ω / 500 VDC	
Life	20 X 10 ⁶ Times	
Circumstance	-20 ^o ~ +60 ^o C ; 35~85% RH	
Weight	175g	185g

Dimension

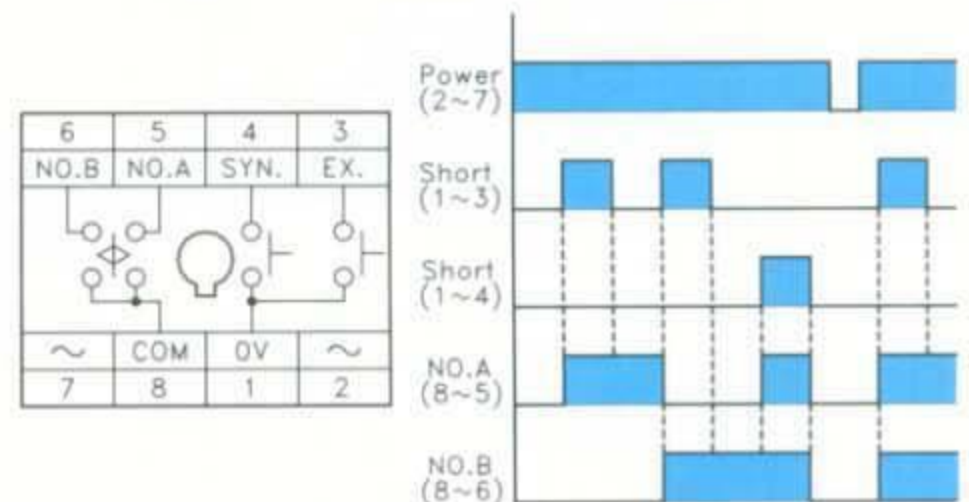


Connection Diagram

G4Q-K1



G4Q-K2



- ★ High Compact, High Reliability & Low Cost Sensor Controller.
- ★ Input NPN or PNP Selectable
(A : NPN B : PNP)
- ★ Suited for Proximity Sensor or Photo Sensor
- ★ C-6 : Standard Controller
C-10 : OFF DELAY Controller.
C-11 : ON DELAY or ONE SHOT Controller.
C-12 : ON+OFF DELAY Controller (Twin Timer).



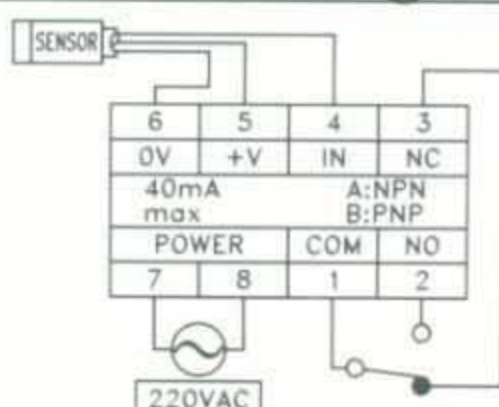
Specification

Model	C - 6	C - 10	C - 11	C - 12
Timer	Non	OFF DELAY	ON DELAY or ONE SHOT	ON DELAY + OFF DELAY
Range of Timer		0 ~ 10 Sec Adjustable		
Power Supply	110V or 220V or 380VAC ± 20% 50/60Hz			
Input Method	NPN or PNP Selectable			
Output Method	Relay (5A/250 VAC)			
Response Time	15 ms	1 ms		
DC Power Output	12 VDC / 40 mA max.			
Current Consumption	3 VA max			
Insulation Resistance	100 MΩ / 500 VDC			
Dielectric Strength	2.5KV / 1 min.			
Protection Class	IP-65			
Operating Temp./Hum.	-20°C ~ +60°C ; 35% ~ 85% RH			
Housing Material	Intensive ABS			
Socket	PF-085A			
Weight				

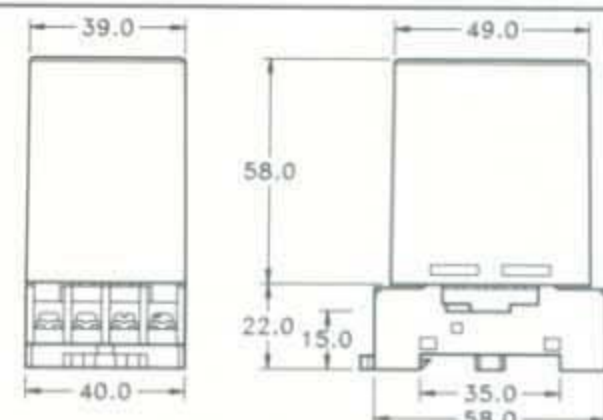
Function of Timer < C-6/C-10/C-11/C-12 >

Model	Timer	Output Timing Chart	Remarks
	PNP INPUT		(一) Mode Selecting "A" NPN INPUT "B" PNP INPUT (二) Range of Timer 0.01S ~ 10.0S Adjustable
C-6	NON DELAY		
C-10	OFF DELAY		
C-11	ON DELAY		
C-11	ONE SHOT		
C-12	ON DELAY + OFF DELAY		

Connection Diagram



Dimension

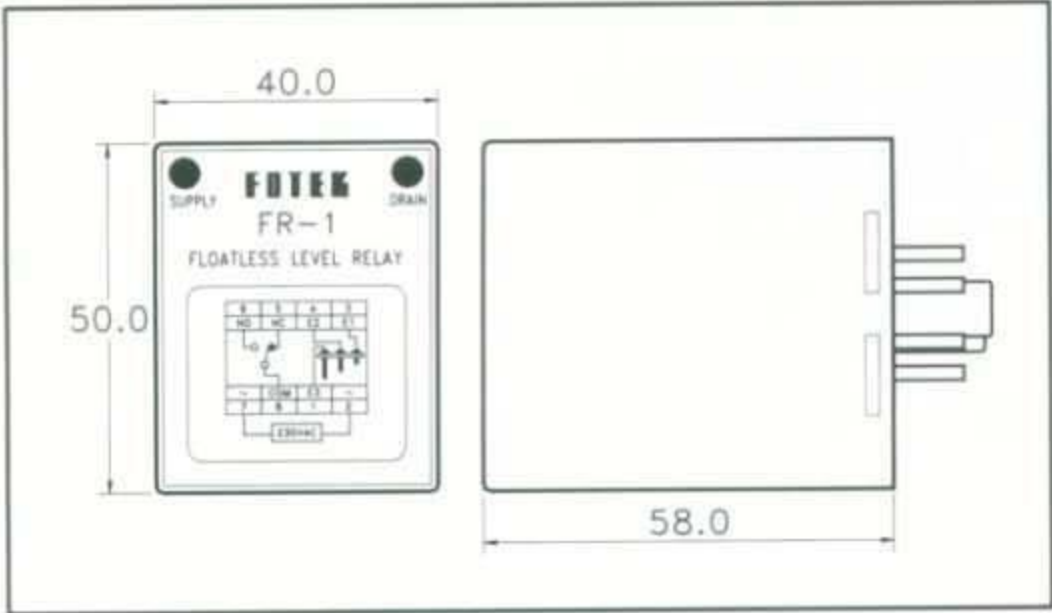


Type	Standard	Long Distance	High Sensitivity	Two Wires
Model	FR-1	FR-1L	FR-1H	FR-2
Figure				
ON Resistance	< 30K Ω	< 4K Ω	< 70K Ω	< 30K Ω
OFF Resistance	> 60K Ω	> 15K Ω	> 300K Ω	> 60K Ω
Length of Cable	< 1000M	< 4000M	< 50M	< 800M
Weight < Appr. >	130g	130g	130g	145g

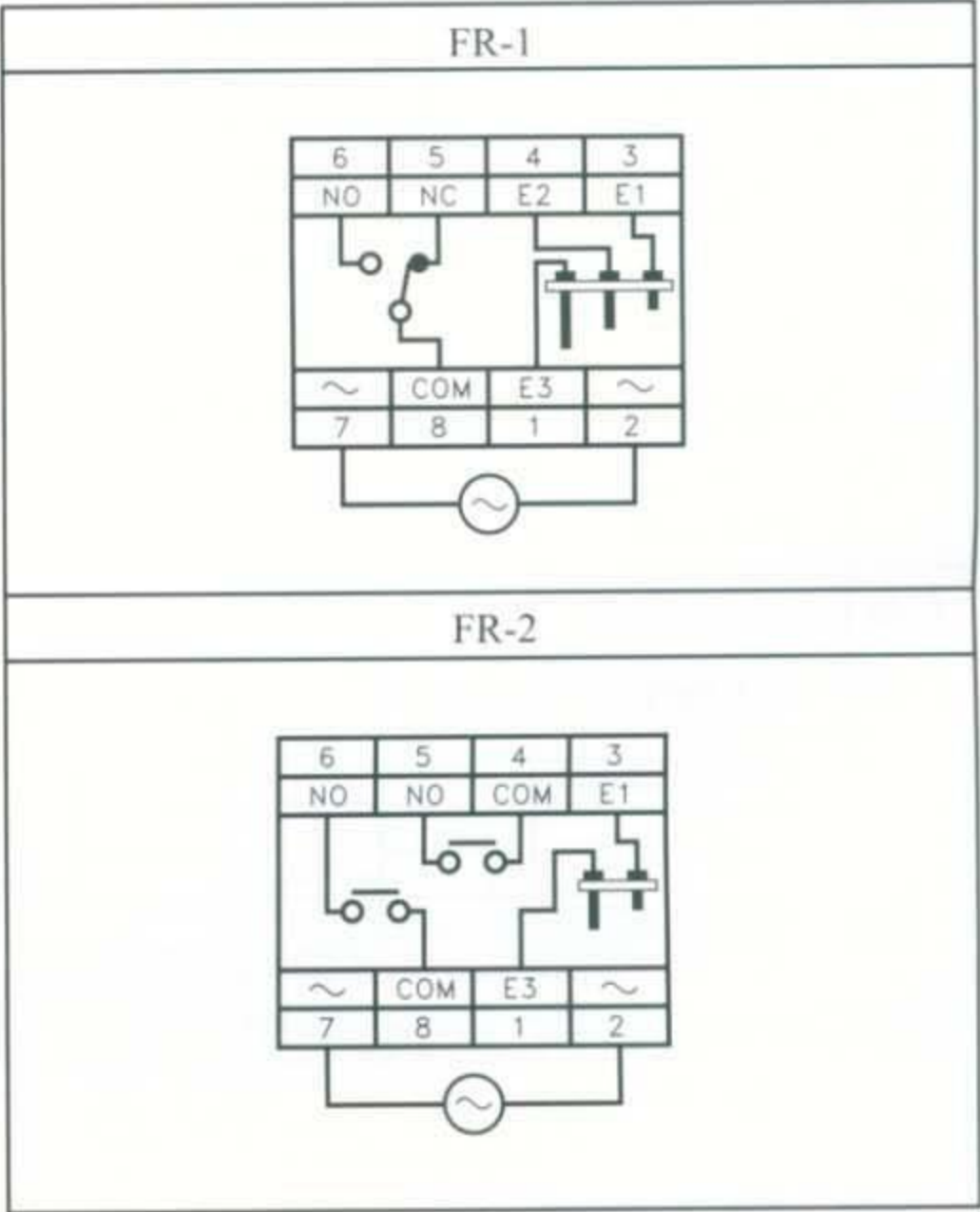
Specification

Power Supply	AC 110V or 230V or 380V ±20%, 50/60Hz
Electrode Voltage	14 VAC
Current Consumption	3VA max.
Output Method	Relay, 5A/250VAC
Response Time	ON<80ms, OFF<160ms
Insulation Resistance	100M Ω /500VDC
Dielectric Strength	2.5KV/1min.
Life of Relay	Mechanical > 2X10 ⁷ Times Electrical > 5X10 ⁶ Times
Circumstance	-20° C~+60° C,35%~85%RH

Dimension



Connection & Diagram

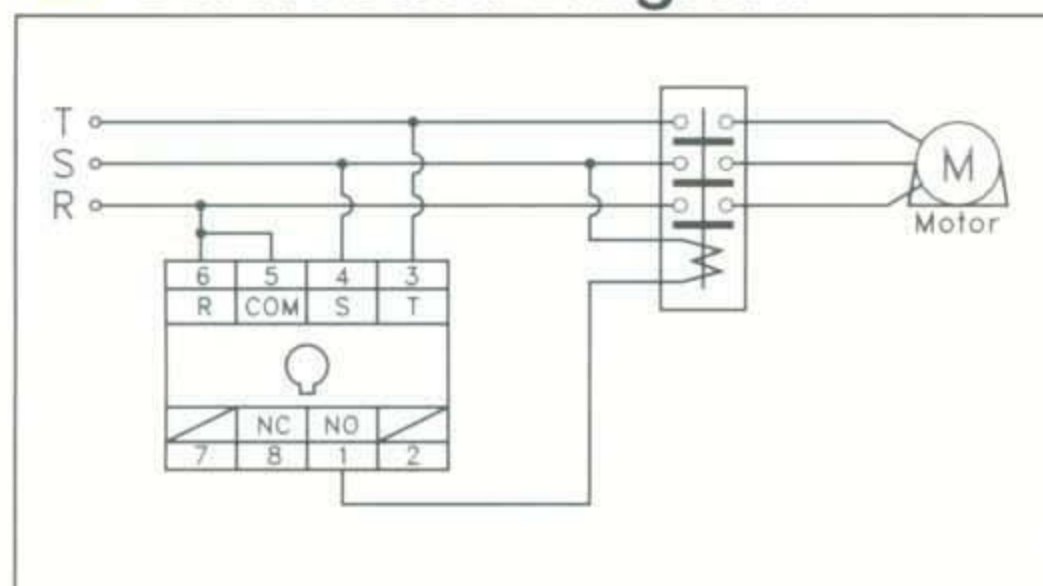


Product	Phase & Voltage Relay	Phase Relay
Model	PVR - 3 - V	PR - 1 - V
Figure		
Power Supply	230V or 380V or 440VAC or 480VAC, 50/60Hz	
High Voltage Limit	±20%	
Low Voltage Limit	±20%	
ON Delay Time	1.0~10.0 Sec Adjustable	
Reset Delay Time	1.0~10.0 Sec Adjustable	2 Sec < Fixed >
Output Method	Relay	
Contact Rated	5A/250VAC	
Output Status	Normal ON < RUN >	
Dielectric Strength	2.5KV / 1 min	
Insulation Strength	100MΩ / 500 VDC.	
Life of Relay	20 X 10 ⁶ Times	
Circumstance	-20°~+60°C ; 35~85% RH	
Weight	155g	140g

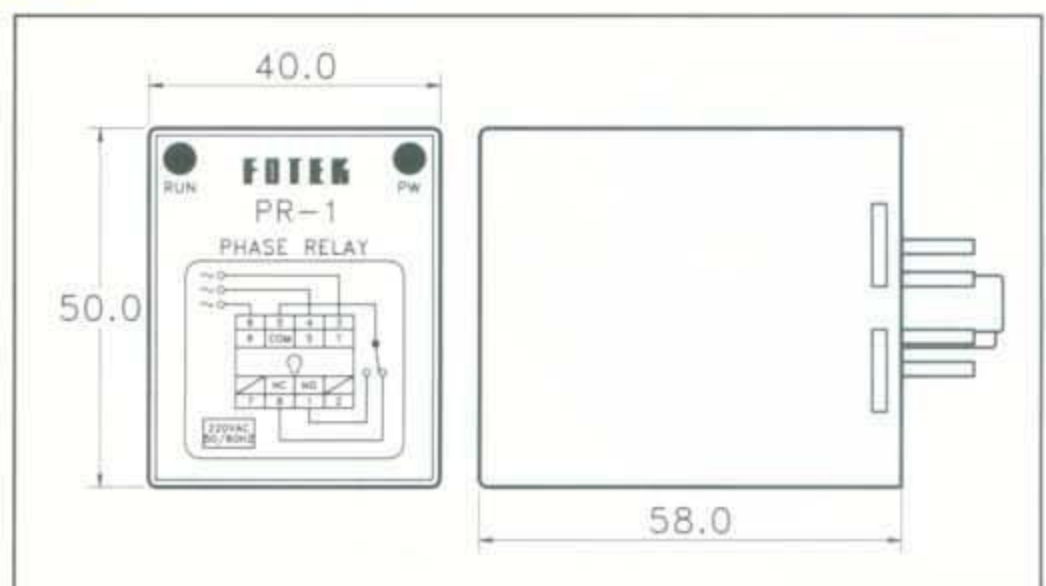
■ Operating Status (PVR-3)

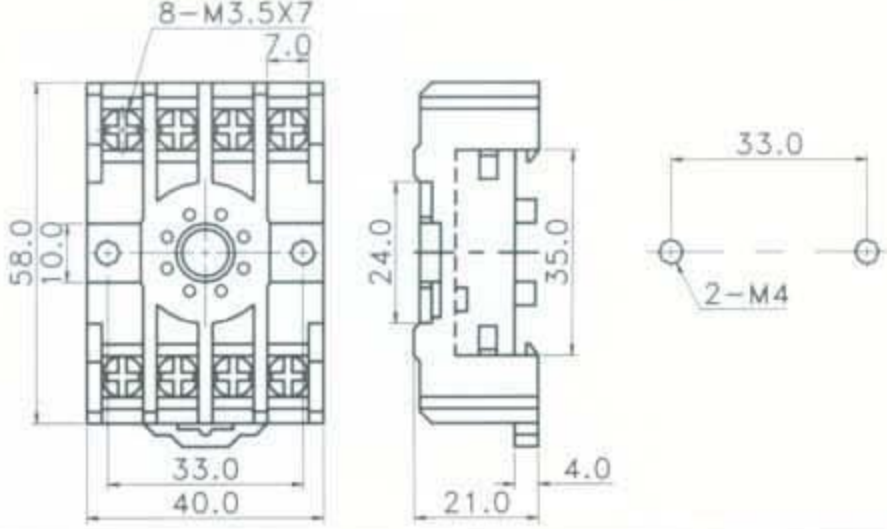
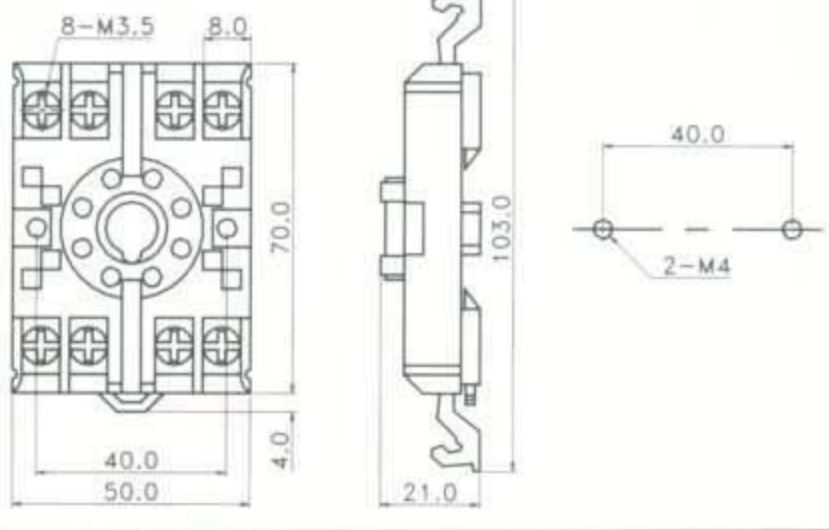
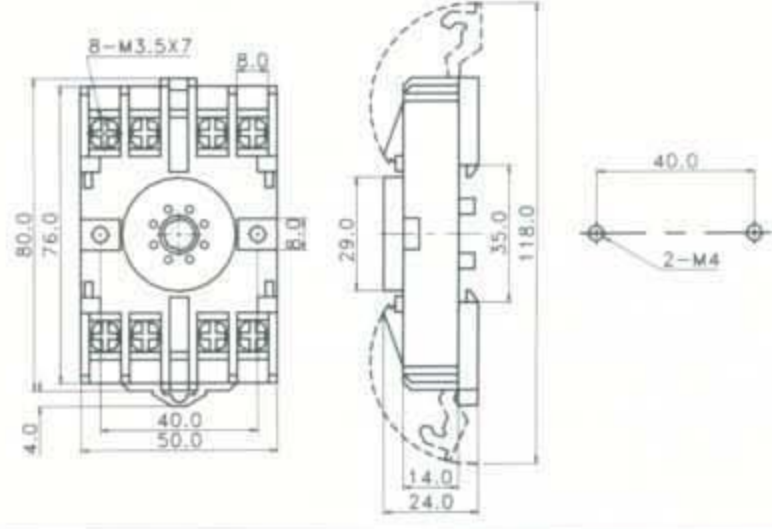
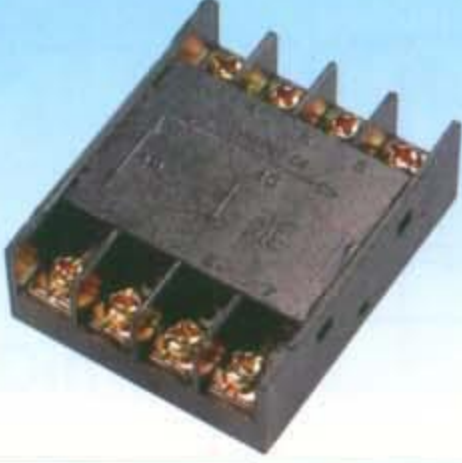
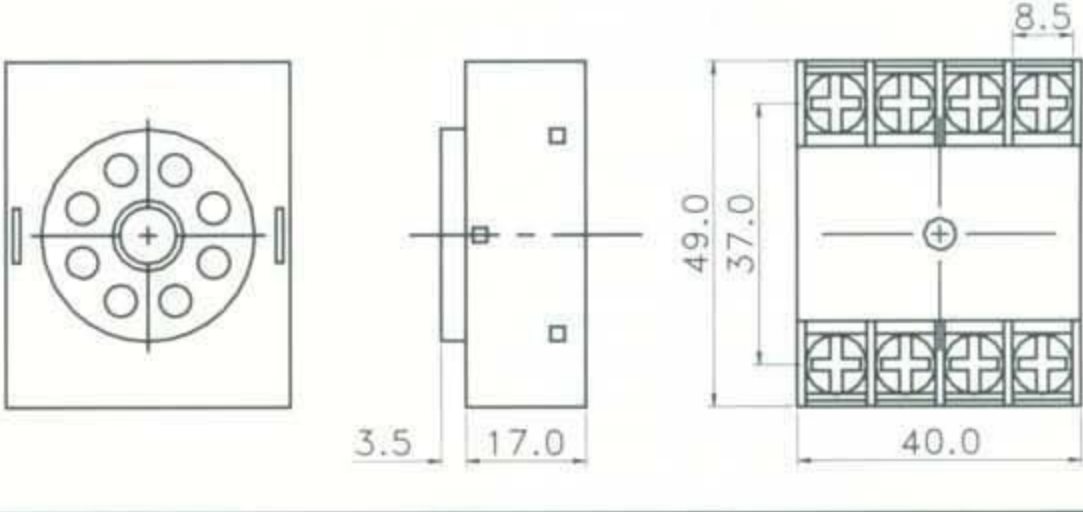
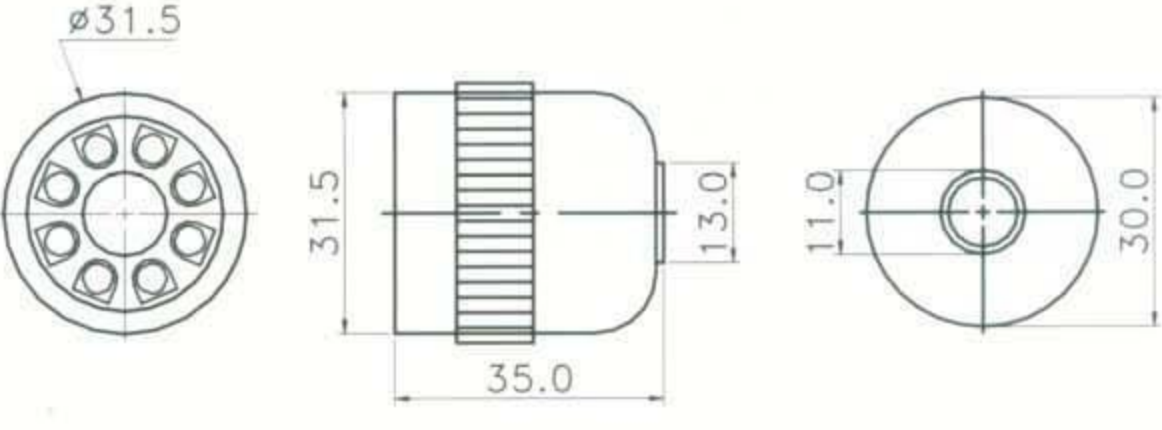
Status LED	Norm.	High Voltage	Low Voltage	R/T Loss	S Loss	Phase Rev
Run	○	×	×	×	×	×
Over	×	○	×	×	×	×
Under	×	×	○	×	○	○

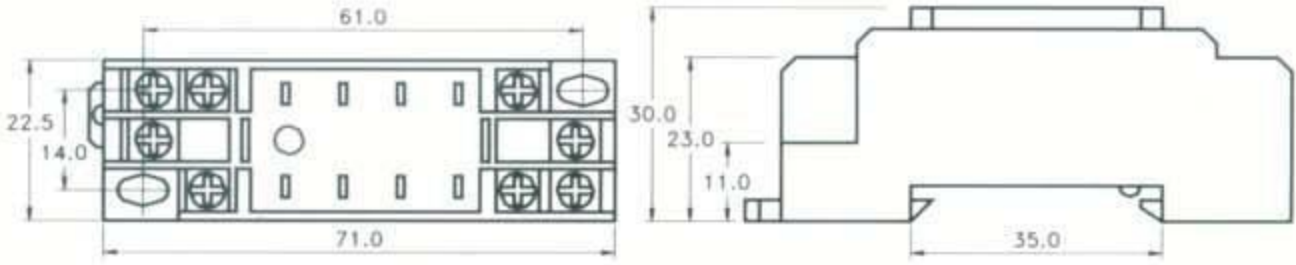
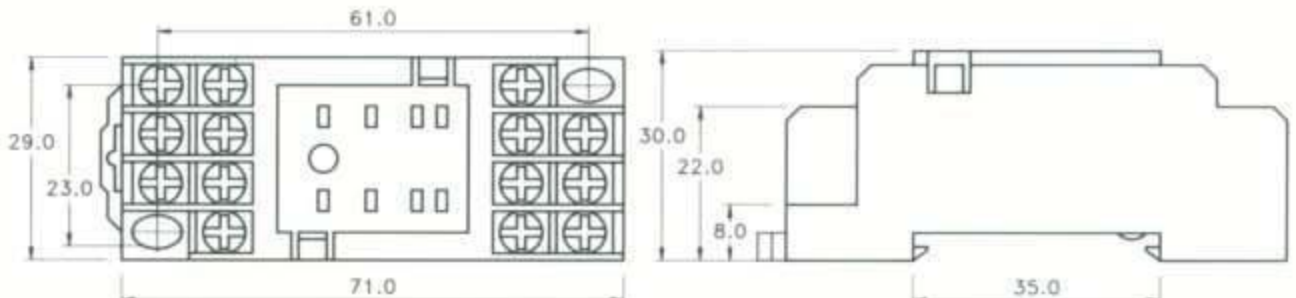
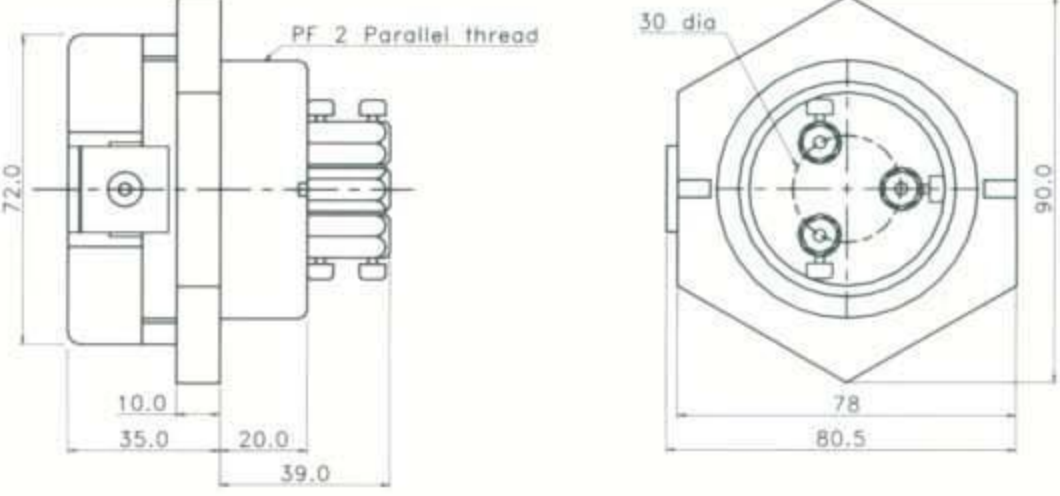
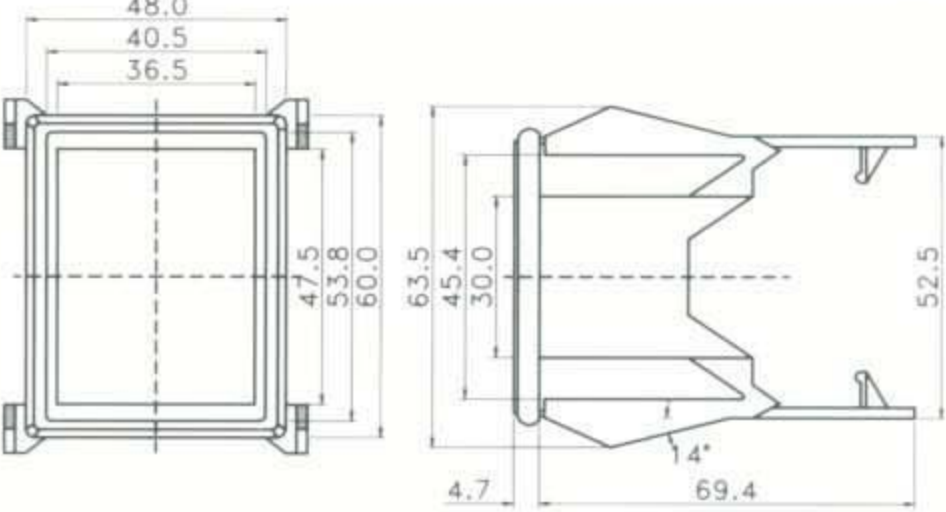
■ Connection Diagram



■ Dimension



PF085A H3 series 	
P2CF-08 H5B series 	
8PFA STP series 	
P3G-08 Panel type 	
US-08 Panel type 	

PYF08A	MY-2P series	 
PYF14A	MY-4P series	 
PS-3S	FR series	 
Y-40	H3 series	 
Y-48	H5 series	 