

Precision Timer Controller

PS-OT-X-XX-X-X-XXX



The models PS-OT-X-XX-X-X-XXX are precision timer switches designed for switching ON/OFF a single electrical load of up to 20A, whereas the 3Ø models can switch loads of up to 32A per phase. Variants in this series, as listed in the selection chart, can be configured for either daily or weekly schedules. The daily configurable models allow the load to be switched ON/OFF based on the Real-Time Clock (RTC) as well as cyclic operations. The cyclic operation enables switching the load in minute/hour cycles. Users can configure and store up to 25 switching cycles for operations. The weekly configurable models, also RTC-based, can be programmed to operate the load on specific weekdays, including holidays. There is a manual override feature that allows the timer to be switched ON when it is OFF and switched OFF when it is ON. Additionally, the model PS-OT-T-XX-S-A-XXP includes an emergency button that can temporarily switch the load ON for 30 minutes when it is OFF

Product Highlights

- Automatic ON/OFF of the load to a maximum of 25 operation, either based on the Real-Time Clock (RTC) or for a specified time duration
- Supports both daily and weekly schedules
- Emergency provision to manually turn the load ON when OFF, or OFF when ON
- Permanent ON/OFF mode for uninterrupted control
- Emergency switch to turn the load ON for a duration of 30 minutes
- Compatible with single-phase and three-phase loads
- Power-down memory to retain settings during power outage
- Easy installation
- Saves energy & operational cost

Applications

- Security and energy-saving applications in homes, hotels, and industries

Product selection

- Model selection table



PS-OT-X-20-S-A-XXW



PS-OT-T-20-S-B-XXW



PS-OT-X-XX-S-A-XXP



PS-OT-T-XX-T-B-WGW



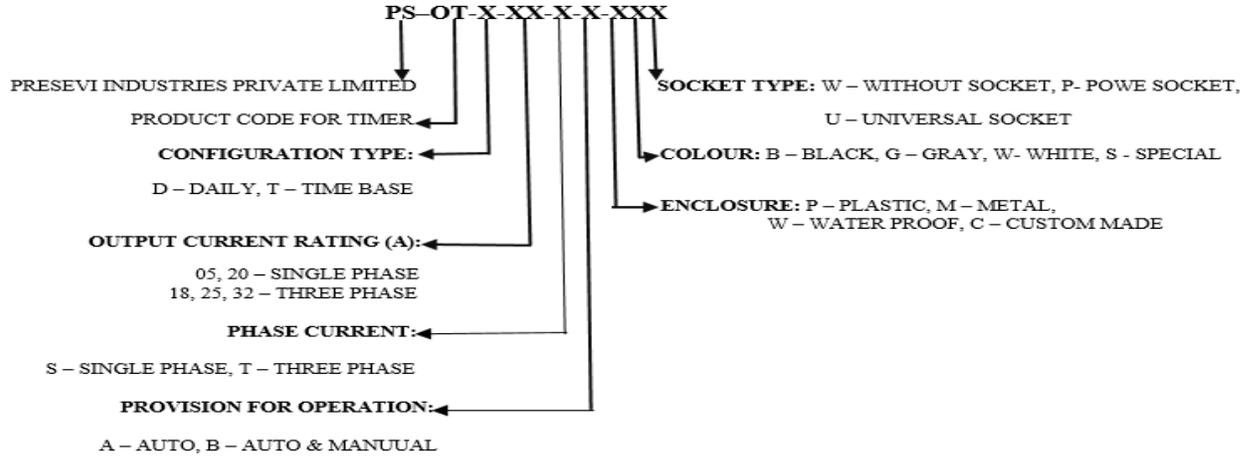
PS-OT-T-XX-T-B-MGW

Fig 1. Precision timer

- Streetlight control
- Garden light control
- Control of advertisement displays
- Automatic operation of geysers, air conditioners, and similar types of loads
- Bore well pump automation
- Scheduling of single/three phase Air-conditioning units with auto by pass option.
- Automatic defrosting in refrigerators and deep freezers
- Fatigue and reliability studies of equipment

Model No.	Power Supply (V)		Frequency (Hz)		Product Name (A = Auto, B = Auto & Manual switch)	Mechanical Dimension (cm)			Load Current (Amps)
	Min	Max	Min	Max		Length (L)	Width (W)	Height (H)	
PS-OT-X-20-S-A-XXW	90	270	450	650	General purpose Timer (A)	87	87	58	20Amps (Single Phase)
PS-OT-X-XX-S-A-XXP	90	270	450	650	Timer With Power Socket (A)	155	87	63	5/16 Amps (selectable) (single Phase)
PS-OT-T-20-S-B-XXW	90	270	450	650	Timer with Bypass Switch (B)	155	87	63	20 Amps (Single Phase)
PS-OT-T-XX-T-B-MGW	160	460	450	650	Metallic Enclosure(B)	306	210	140	18/25/32 Amps per phase (selectable) (Three Phase)
PS-OT-T-XX-T-B-WGW	160	460	450	650	IP – 65 Grade Enclosure(B)	245	180	170	18/25/32 Amps per phase (selectable) (Three Phase)

- Specific model could be generated using the following code



Example to select a timer model

1. Time based, 20 Ampere, single phase, Auto, Without socket Type, Black colour in plastic enclosure: PS-OT-T-20-S-A-PBW
2. Daily based, 20 Ampere, three phase, Auto/manual, without socket Type, Gray colour in plastic enclosure model No: PS-OT-D- 20 -T-B-PGW

*Note: 1. Automatic & manual ON/OFF provision is given in 3phase model

2. Emergency switching ON provision for 30 minutes is given when bell-push switch is activated.

Electrical connection diagram

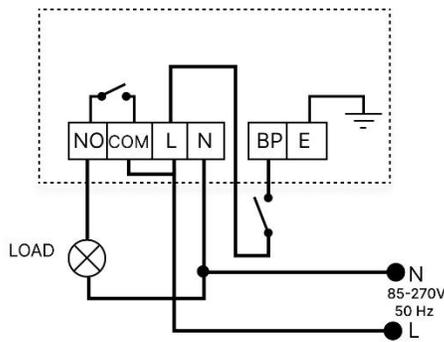


Fig 6 a – Single Phase

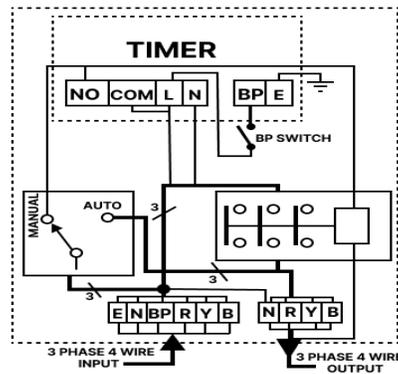


Fig 6 b – Three Phase

Presevi Industries Pvt . Ltd., Chennai, India—established in 1985 is an Original Design Manufacturer (ODM) with a independent R&D division and two manufacturing facilities. The company specializes in designing, developing, and manufacturing highly reliable electronic controllers for appliance industries, including air conditioning, refrigeration, and washing machines. Presevi Industries serves diverse sectors such as energy, hospitality, agriculture, space and atomic research, railways, and more. With 38 years of cumulative knowledge and expertise in power electronics, instrumentation, and mechatronics-based system design, the company integrates reliability considerations like FMECA, FTA, MTTR, and MTBF at the very first phase of product design. Over the years, the firm has successfully completed numerous innovative, research-based product developments in mechatronics, power electronics, embedded controller development, instrumentation, and networking. These have been delivered for esteemed clients such as Indian Railways, ISRO, IGCAR, BSNL, IIT, and others.

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