



# Programmable Time Delay - 3 wire

Cat XLTX770/1, XLTX770/1NC, XLTX770/2, XLTX770/2NC, TX770/1RC, TX770/1RCNC, TX770/2RC and TX770/2RCNC

## Instructions

### Specifications (at 25°C)

- Connection type: 3 wire (neutral required)
- Supply voltage: 230-240V a.c. 50Hz
- Max load: 2400W (incandescent)  
2400VA (fluorescent)
- Operating temperature range: 0°C to + 50°C
- Programmable time delay period: 1 sec to 239 hrs
- Factory setting: 10 mins



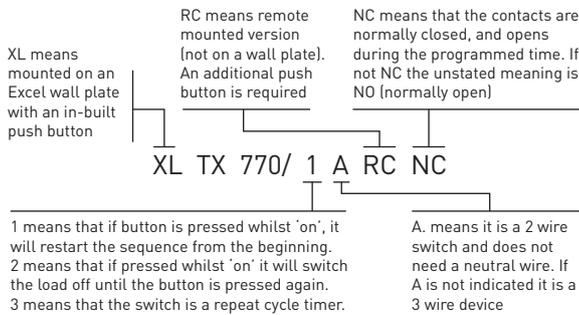
### Features

This time delay switch is capable of switching loads for any programmable time from 1 second to 239 hours and it does this with incredible accuracy without the need of a battery or supercapacitor. This accuracy is based on the timing reference used: the 50Hz frequency.

Applications include lighting, heating, air conditioning and other machinery in commercial, industrial and institutional premises with resultant economies because the devices are turned on only when they are required and can not be inadvertently left on.

The push button is illuminated for easy night time operation.

### Understanding the function of the switch by its catalogue number



### Operation

As soon as the button is pressed, the load turns on. However, timing does not start until the button is released. This is called "off-delay", and the time delay switch operates this way by default. When the time delay period expires, the load turns off.

The time delay switch can be reprogrammed so that timing starts as soon as the button is pressed, rather than when it is released. This is called "on-delay". Refer to "How to program" for how to activate "on-delay".

### Wiring

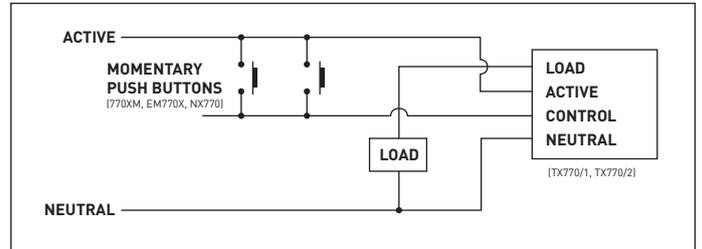


Figure 1. Normal wiring diagram

Optional momentary push buttons (NX770M or 770XM) can be connected between the Active and Control terminals. These perform the same function as the push button on the main product.

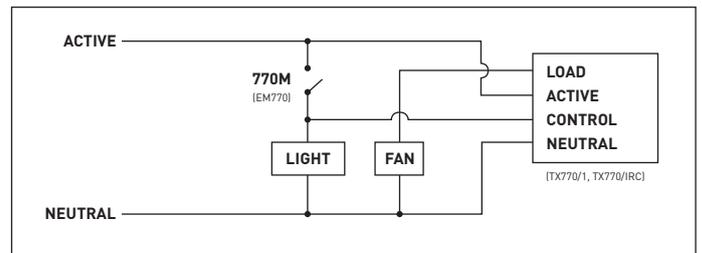


Figure 2. Fan delay timer

In this application, a Remote (RC) time delay switch is used, and a 770M rocker switch is used in place of the momentary push button. When the switch is turned on, both the light and fan turn on. When the switch is turned off, the light will turn off immediately but the fan will keep running for the programmed delay period. Note that this will only work when the unit is set to "off-delay" (the default setting).

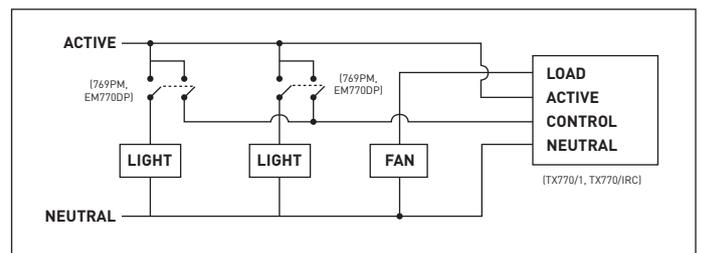


Figure 3. Fan delay timer with multiple lights

When multiple light switches are used to control the one fan, double pole switches [769PM] must be used, otherwise all the lights will turn on when one switch is turned on.

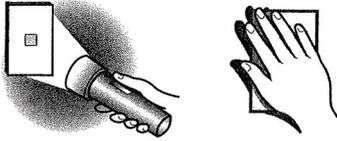
### Installation Note:

- 1) The maximum recommended length of the control wire to remote push buttons is 100m.
- 2) Power factor correction capacitors can be connected downstream of the time delay switch

### WARNING

Do not megger test. Megger tester may damage unit.

## How to program



The heart of this time delay switch is a photo electric cell which is influenced, in the programming mode, by changes of light intensity. For instance in a semi dark indoor situation, a torch being flashed at the switch will programme it. Outdoors or in brighter areas it may be the opposite. Your hand or a box placed over the switch and removed in approximately 2 second intervals will also put the switch into the program mode required to set the 'time on'. Either way the switch should be subject to approximately 2 seconds on, 2 seconds off. **Let's call the 'on' periods - 'flashes'.**

### 15 minutes to set the program.

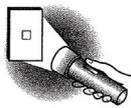
Setting the unit into program mode can only be done within 15 minutes of the unit receiving power. So it may be required to switch the circuit off from the MCB for a few seconds and then switch the MCB back on.

**You now have 15 minutes to set the programme**

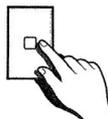


### Choosing the number of seconds, minutes or hours of time delay:

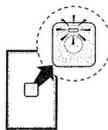
Firstly you need to get into programme Mode 1. To do this, subject the unit to 3 flashes. You will know if you are in program Mode 1 because the switch will show a constant green light plus a flashing red one. If you see these lights you are in Mode 1.



To set the amount of time that you wish the load to stay on, press the button the number of times corresponding to your 'time on'. For instance if you're setting 10 seconds, press the button ten times. If you're setting 10 hours, press the button ten times. If you're setting 3 minutes, press the button three times. It doesn't matter in Mode 1 whether it's hours, minutes or seconds - it's just a number

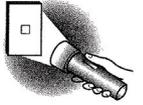


10 seconds after you've entered your number, the relay will turn on for 4 seconds, then off. The switch will also flash the new setting for 90 seconds.

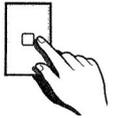


### Getting into Mode 2.

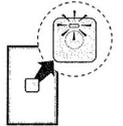
To do this, subject the unit to 6 flashes. You will know if the switch is in Mode 2 because it will show a constant red light and a flashing green one (the opposite to Mode 1). You now need to tell the switch what the number that you have programmed into it means.



If that number is to be seconds, press the button once. If you want MINUTES, press the button twice. If you want HOURS, press the button three times.



Say you wanted 2 hours & 15 minutes you would need to convert hours into minutes to come up with a total minutes figure of 135. That's the number of presses that you need in Mode 1. And you need to press twice for minutes in Mode 2.



10 seconds after the last press, the unit will automatically save the new timing and turn the relay on for 4 seconds, then off again. It will also flash the new setting for 90 seconds. The next press will commence the timing cycle from the beginning of the 'on' period.

### On-Delay & Off-Delay

The time delay switch is factory set for "off-delay" (see operation).

To change to "on-delay", when in programming Mode 2, on the last button press and hold the button down for at least 10 seconds until the relay clicks on.

## Programming notes

- The units are factory set in Mode 1 at 10. If this number is satisfactory, you then proceed straight to Mode 2.
- After entering either program mode, pressing the button once or more will override the previous setting and cannot be reversed.
- After entering either program mode, and not pressing the button, the unit will time out after 1 minute and no setting will be changed.
- All new program settings are permanently stored in a non-volatile memory, immune to power failure. There is no need for back-up batteries.
- The units may be programmed on the bench prior to going on-site if more convenient

## Warranty

HPM Legrand will honour all statutory guarantees that you as a consumer are entitled to rely upon under the Australian Consumer Law against a manufacturer including a guarantee that (any products HPM Legrand has manufactured or imported/the products which are described in this Instruction Manual) XLTX770/1, XLTX770/1NC, XLTX770/2, XLTX770/2NC, TX770/1RC, TX770/1RCNC, TX770/2RC and TX770/2RCNC products are of acceptable quality.

To make a claim under any statutory guarantee (or other warranty) you should first contact the supplier, contractor or retailer from whom you purchased the products.

## Customer Service

For all Customer Service and Technical Support please call Monday to Friday during business hours.

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