

# Electronic Miniature On-Delay Timer TY4

# IMO

Miniature on-delay, plug-in timer. Different models with a range of settings between 0.1 sec and 6 hours

- Four-pole changeover contacts rated at 3A @ 240VAC
- AC and DC supply versions
- Indications for time range, time up and power on
- Pin-out compatible with industry standard, 4-pole plug-in relays
- Sockets available for panel, surface, rail or printed-circuit board mounting
- Approved by standards:  
UL (file no. E44592), CSA (file no. LR60859)



## Options and ordering codes

| TY4        | 12VDC          | 1sec   |
|------------|----------------|--------|
| 12VDC      | Supply voltage | 1 sec  |
| 24VDC      |                | 5 sec  |
| 24VAC      |                | 10 sec |
| 110VAC     |                | 30 sec |
| 230-240VAC |                | 60 sec |
|            |                | 3 min  |
|            |                | 10 min |
|            |                | 30 min |
|            |                | 60 min |
|            |                | 6 hour |

## Specification

| Timing range | Time setting range |
|--------------|--------------------|
| 1 sec        | 0.1 to 1 sec       |
| 5 sec        | 0.4 to 5 sec       |
| 10 sec       | 1 to 10 sec        |
| 30 sec       | 2 to 30 sec        |
| 60 sec       | 4 to 60 sec        |

| Timing range | Time setting range |
|--------------|--------------------|
| 3 min        | 0.25 to 3 min      |
| 10 min       | 1 to 10 min        |
| 30 min       | 2 to 30 min        |
| 60 min       | 4 to 60 min        |
| 6 hour       | 0.5 to 6 hours     |

|                                   |                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------------------|
| Repeat accuracy                   | ±0.1% at max. setting time                                                               |
| Reset time                        | 0.1 sec or less                                                                          |
| Max. switching frequency          | 1800 times/hour                                                                          |
| Allowable ambient temperature     | -10°C to +50°C                                                                           |
| Mechanical life                   | 50 million operations                                                                    |
| Electrical life                   | 800,000 operations at 1A 240VAC                                                          |
| Allowable operating voltage range | 0.85 to 1.1 times input voltage (230-240VAC type, 0.89 to 1.1 times input voltage range) |
| Contact ratings                   | 3A at 240VAC resistive load                                                              |
| Power consumption                 | 1.9VA at 110VAC, 2.1VA at 240VAC, 1.1W at 24VDC                                          |
| Supply frequency AC types         | 50/60Hz                                                                                  |
| Dielectric strength               | 2000VAC rms. 1 min. between current carrying part and non current carrying part          |
|                                   | 1500VAC rms. 1 min. between output contacts and control circuit                          |
|                                   | 1000VAC rms. 1 min. between open contacts                                                |
| Insulation Resistance             | 100 MΩ or more at 500VDC megger                                                          |
| Vibration                         | Mechanical durability: 16.7Hz, 4mm double amplitude                                      |
|                                   | Malfunction durability: 10 to 55Hz, 0.5mm double amplitude                               |
| Shock                             | Mechanical durability: 1000m/S <sup>2</sup> (Approx. 100G)                               |
|                                   | Malfunction durability: 50m/S <sup>2</sup> (Approx. 5G)                                  |

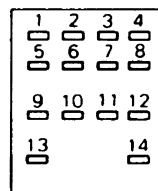
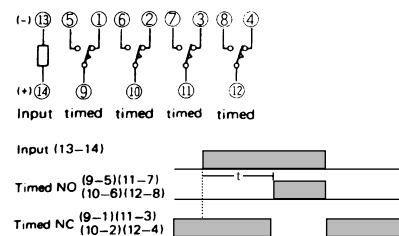
# Electronic Miniature On-Delay Timer TY4 continued



## Wiring and timing diagrams

## Terminal arrangement

### TY4



View from back

## Dimensions (mm)

