

# PM5S-A/S/M

## Specifications

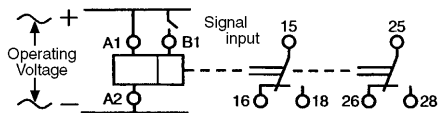
| Item                     | Type                                  | PM5S-A  | PM5S-S  | PM5S-M   |
|--------------------------|---------------------------------------|---|---|--|
| Rating                   | Rated operating voltage               | 24 to 240V AC/DC  |   |  |
|                          | Rated frequency                       | 50/60Hz common  |   |  |
|                          | Rated power consumption               | 2.6 VA (AC), 1.4 W (DC)   |   |  |
|                          | Rated control capacity                | 5A 250V AC (resistive load)   |   |  |
|                          | Operating mode                        | Pulse ON-delay<br>Pulse Flicker<br>Pulse ON-Flicker<br>Signal OFF-delay<br>Pulse One-shot<br>Pulse One-cycle  | Power ON-delay  | Pulse ON-delay<br>Pulse Flicker<br>Pulse ON-flicker<br>Signal OFF-delay<br>Pulse One-shot<br>Pulse One-cycle<br>(with instantaneous contact) |
| Time accuracy<br>(Note:) | Time range                            | 1s to 500h (Max.) 16 time ranges switchable   |   |  |
|                          | Operating time fluctuation            | ±0.3% (power off time change at the range of 0.1s to 1h)  |   |  |
|                          | Setting error                         | ±10% (Full-scale value)   |   |  |
|                          | Voltage error                         | ±0.5% (at the operating voltage changes between 85 to 110%)   |   |  |
|                          | Temperature error                     | ±2% (at 20°C ambient temp. at the range of -10 to +55°C +14 to +131°F)  |   |  |
| Contact                  | Contact arrangement                   | Timed-out 2 Form C  |   | Timed-out 1 Form C<br>Instantaneous 1 Form C   |
|                          | Contact resistance (Initial value)    | Max. 100mΩ (at 1A 6V DC)  |   |  |
|                          | Contact material                      | Silver alloy  |   | Au flash on Silver alloy   |
| Life                     | Mechanical (contact)                  | 2×10 <sup>7</sup>   |   | 1×10 <sup>7</sup>  |
|                          | Electrical (contact)                  | 10 <sup>5</sup> (at rated control capacity)   |   |  |
| Electrical function      | Allowable operating voltage range     | 85 to 110% of rated operating voltage (at 20°C coil temp.)  |   |  |
|                          | Insulation resistance (Initial value) | Min. 100MΩ  | Between live and dead metal parts<br>Between input and output<br>Between contacts of different poles<br>Between contacts of same pole | (At 500V DC)   |
|                          | Breakdown voltage (Initial value)     | 2,000Vrms for 1 min Between live and dead metal parts<br>2,000Vrms for 1 min Between input and output<br>2,000Vrms for 1 min Between contacts of different poles<br>1,000Vrms for 1 min Between contacts of same pole |   |  |
|                          | Min. power off time                   | 100ms   |   |  |
|                          | Max. temperature rise                 | 55°C 131°F  |   | 65°C 149°F   |
| Mechanical function      | Shock resistance                      | Functional  | Min. 98m/s <sup>2</sup> (4 times on 3 axes)   |  |
|                          |                                       | Destructive   | Min. 980m/s <sup>2</sup> (5 times on 3 axes)  |  |
|                          | Vibration resistance                  | Functional  | 10 to 55Hz: 1 cycle/min Single amplitude of 0.35mm (10min on 3 axes)  |  |
|                          |                                       | Destructive   | 10 to 55Hz: 1 cycle/min Single amplitude of 0.75mm (1h on 3 axes)   |  |
| Operating condition      | Ambient temperature                   | -10 to +55°C +14 to +131°F  |   |  |
|                          | Ambient humidity                      | Max. 85%RH (non-condensing)   |   |  |
|                          | Atmospheric pressure                  | 860 to 1,060hPa   |   |  |
|                          | Ripple factor (DC)                    | 20%   |   |  |
| Others                   | Protective construction               | IP40  |   |  |
|                          | Weight                                | 120g 4.233 oz   |   |  |

Note: 1) Unless otherwise specified, the measurement conditions at the maximum scale time standard are specified to be the rated operating voltage (within 5% ripple factor for DC), 20°C 68°F ambient temperature, and 1s power off time.  
2) For the 1s range, the tolerance for each specification becomes ±10ms.

## Terminal layouts and Wiring diagrams

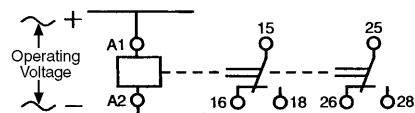
### PM5S-A

- Timed-out 2 Form C



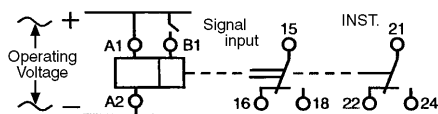
### PM5S-S

- Timed-out 2 Form C



### PM5S-M

- Timed-out 1 Form C
- Instantaneous 1 Form C



### Contact

