Multifunction timer<br>MFS timetron ${ }^{\text {® }}$<br>with relay output<br><br>■ 10 time ranges from $0.05 \mathrm{~s} \ldots 300 \mathrm{~h}$ covered by one unit $\square 2$ SPDT contacts, 2nd SPDT contact switch as instantaneous function<br>■ Continuous voltage range from 24 to 240 V AC/DC<br>- Controllable by 3-wire proximity switch<br>Suitable for connection of a remote potentiometer<br>Elapse timer storage<br>- 3 LEDs to display operational status



## Operation

This multifunction timer replaces many single function timers. It reduces service time, maintenance time, and inventory by providing selectable functions, voltages, and timing ranges in one unit.
Only 22.5 mm wide, it is a compact module that has universal application.
Eight functions can be selected using a rotary switch which displays an international symbol for every function; e.g. $\triangle$ for "delay on operate."
The 10 time ranges from 0.05 sec . to 300 hrs . are also selected using a rotary switch. The time range is indicated on a front face window display.
A desired time value is then set using a built-in potentiometer with a direct reading absolute scale. When an external potentiometer is used for control purposes, the timer's internal logic detects the external control input and automatically disengages the internal control.
Timing is displayed by a flashing green LED.
A timer for service and maintenance purposes must be suitable to replace a large variety of timers featuring various functions, voltage and time ranges. Simple and reliable setting is also essential to minimize machine and installation downtime.
Dimensions (W x H x D): $22.5 \times 78 \times 100 \mathrm{~mm}$

- Approvals: (a) (14) (6)


Voltage supplied internally; no external supply required 20 ms
$1 . .40 \mathrm{~V} \mathrm{DC}$
$<1 \mathrm{~mA}$
50 m
$50 \mathrm{k} \Omega$
25 m shielded, shield connected to Z 2 100 \%

| $0.05 \mathrm{~s} \mathrm{..}$. |
| :---: |
| $<50 \mathrm{~ms}$ |
| < 0.2 \% |
| < 0.008 \% / \% $\Delta \mathrm{V}$ |
| $<0.07 \% /{ }^{\circ} \mathrm{C}$ |
|  |
| LED green steady /flashing while timing |
| LED red |
| LED red |
| Relay, 1 SPDT contact |
| 250 V |
| 250 V AC |
| 4 A (at 230 V ) |
| 3 A (at 230 V ) |
| 4 A (at 24 V ) |
| 2 A (at 24 V ) |
| $30 \times 10^{6}$ operations |
| $1 \times 10^{5}$ operations |
| $10 \mathrm{~A} / \mathrm{fast}$, operating class gL |
| 4 kV |
| $-25^{\circ} \mathrm{C} \ldots+65^{\circ} \mathrm{C}$ |
| $-40^{\circ} \mathrm{C} \ldots+85^{\circ} \mathrm{C}$ |
| any |
| Snap-on mounting/ Screw mounting by adapter |
| $2 \times 14$ AWG ( $2 \times 2.5 \mathrm{~mm}^{2}$ ) |
| approx. $5.3 \mathrm{oz}(150 \mathrm{~g})$ |

## 8 Functions


$t=$ set delay time; $t s=$ storage time; $t=t 1+t 2$


Supply
Control A1/A2
Y1-Z2
$\begin{array}{ll}\text { SPDT contact } 1 & 15 / 18-15 / 16 \\ \text { Sontact } 2 & 25 / 28-25 / 26\end{array}$ $\begin{array}{lll}\left.\begin{array}{ll}\text { c/o contact 2 } 2 & 21 / 24 \\ \text { (Instant. contact) } & 2122\end{array}\right) \\ & & \end{array}$ Linstant. co
LED green
$t=$ set flasher time

$\Omega \boxtimes$ = Flasher, starting on "ON"

$t=$ set delay time; ts $=$ storage time; $t=t 1+t 2$

$t=$ set pulse time; ts = storage time; $t=t 1+t 2$
$\triangle \boxtimes$ = Star-delta changeover twice delayed on operate
Supply A1/A2

SPDT contact 1 15/18-15/16
SPDT contact 2 25/28-25/26
LED green

$t=$ set start-up time; $t 2=$ changeover time (approx. 50 ms )
$\Delta 1 \Omega=$ Star-delta changeover with wiper function


