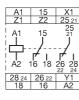
Multifunction timer MFS timetron[®] with relay output





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- 10 time ranges from 0.05 s .. 300 h covered by one unit 2 SPDT contacts, 2nd SPDT contact switch as instantaneous function
- Continuous voltage range from 24 to 240 V AC/DC
- Controllable by 3-wire proximity switch
 Suitable for connection of a remote potentiometer
- Elapse timer storage

General data

Weight

Operating temperature

Storage temperature Installation position

Rated impulse withstand voltage Vimp

Wire size stranded with wire end ferrule

Mounting of DIN rail (EN 50022)

3 LEDs to display operational status

O time renges in one unit

10 time ranges in one unit		Supply	
1 0.05 - 1 s*	6 15.0 - 300 s	24240	
2 0.15 - 3 s*	7 1.50 - 30 min.		
3 0.50 - 10 s	8 15.0 - 300 min.		
4 1.50 - 30 s	<mark>9</mark> 1.50 - 30 h	Access	
5 5.00 - 100 s	10 15.0 - 300 h	Remote	
* In this time range no flash	ning of the green LED while	Sealabl	
timing.	0 0	Adapte	
Technical data			
Input circuit			
Supply power - power consu		2424	
Tolerance of the supply volta			
Control contact connections			
Voltage oupplied at the sent	X1-Z2	Volter	
Voltage supplied at the cont Minimum controller pulse ler		Voltage	
Floating voltage at the contr			
Maximum switching current			
Maximum cable length to the			
Remote potentiometer conn			
Maximum cable length to the			
Duty time	·		
Timing circuit			
Time ranges			
Recovery time			
Repetitive accuracy (constant			
Timing error within the tolera			
Timing error within temperat			
Display of operational state	us		
Supply voltage/ timer			
1st output relay energized			
2nd output relay energized	15 16/10 05 00/00		
Output circuit	15-16/18, 25- 26/28 VDE 0110, IEC 947-1		
Rated voltage Rated switching voltage	VDE 0110, IEC 947-1		
Rated switching current	AC 12 (resistive)		
Rated switching current	AC 12 (resistive)		
Rated switching current	DC 12 (resistive)		
Rated switching current	DC 12 (resistive)		
Maximum mechanical life			
Maximum electrical life (to AC	C 12 / 230 V/ 4 A)		
Short-circuit proof, max. fus			

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. of 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.

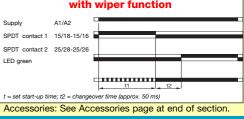
Timing is displayed by a flashing green LED. A timer for service and maintenance purposes must be suitable to replace a large variety of timers featuring various functions, voltage and time ranges. Simple and reliable setting is also essential to minimize machine and installation downtime.

Dimensions (W x H x D): 22.5 x 78 x 100 mm

	Approvals: 🖲 🚯 ն		
	Supply voltage	P/ N:	
S	24240 V AC/DC	2 430 010 02	
min.			
min.			
h	Accessories	P/ N:	
h	Remote potentiometer	3 701 800 10	
while	Sealable transparent cover	3 430 005 01	
	Adapter for screw mounting	3 440 029 01	
A1-A2	24240 V AC/DC - 22.	5 VA / W	
	-15 % +10 %		
Y1-Z2	external timer start		
X1-Z2	timer stop, time storage		
	Voltage supplied internally; no external supply required		
	20 ms		
it	1040 V DC		
IL	< 1 mA		
Z1-Z2	50 m 50 kΩ		
neter	25 m shielded, shield connected to Z2		
	100 %		
	0.05 s 300 h		
	< 50 ms		
	< 0.2 %		
age	< 0.008 % / % ΔV		
	< 0.07 % / °C		
	LED green steady /flashing while timing		
	LED green steady /fiashing while timing		
	LED red		
25- 26/28	Relay, 1 SPDT co	ntact	
IEC 947-1	250 V		
	250 V AC		
(resistive)	4 A (at 230 V)		
inductive)	3 A (at 230 V)		
(resistive) inductive)	4 A (at 24 V) 2 A (at 24 V)		
inductive)	2 A (at 24 V) 30 x 10 ⁶ operatio	NDE .	
	1 x 10 ⁵ operatio		
	1 X 10° operations 10 A / fast, operating class <i>gL</i>		
		g -	
	4 kV		
	-25°C +65°C		
	-40°C +85°C		
	any		
	Snap-on mounting/ Screw mo		
	2 x 14 AWG (2 x 2.5	5 mm²)	

approx. 5.3 oz (150 g)

8 Functions **Example 2** = Delay on operate A1/A2 Supply Y1-Z2 Control contact 15/18-15/16 SPDT contact 1 SPDT contact 2 SPDT contact 2 21/24 (Instant. contact) 21/22 LED green Control contact X1-Z2 (Timer stop) t1 ts t2 t = set delay time; ts =storage time; t = t1 + t2 1 🗌 🖂 = Single pulse on operate Supply A1/A2 Control contact Y1-Z2 SPDT contact 1 15/18-15/16 SPDT contact 2 25/28-25/26 SPDT contact 2 21/24 (Instant. contact) 21/22 LED green Control contact X1-Z2 (Timer stop) ts t2 _ t1 t = set pulse time; ts = storage time; t = t1 + t2I = Flasher, starting on "OFF" A1/A2 Control contact Y1-Z2 SPDT contact 1 15/18-15/16 SPDT contact 2 25/28-25/26 c/o contact 2 21/24 (Instant. contact) 21/22 LED green t = set flasher time ☐ Image: Contract of the starting on "ON" Supply A1/A2 Control contact Y1-Z2 SPDT contact 1 15/18-15/16 SPDT contact 2 25/28-25/26 SPDT contact 2 21/24 (Instant. contact) 21/22 LED gree t = set flasher time = Delay on release A1/A2 Supply Control contact Y1-72 SPDT contact 1 SPDT contact 2 15/18-15/16 25/28-25/26 SPDT contact 2 21/24 (Instant. contact) 21/22 LED green ш Control contact X1-Z2 (Timer stop) t. t1 ts t2 t = set delay time; ts = storage time; t = t1 + t2 1Л = Single pulse on release Supply A1/A2 Control contact Y1-Z2 SPDT contact 1 15/18-15/16 SPDT contact 2 25/28-25/26 SPDT contact 2 21/24 (Instant. contact) 21/22 LED green Control contact X1-Z2 (Timer stop) t1 ts t2 _ t t = set pulse time; ts = storage time; t = t1 + t2🛕 🖂 = Star-delta changeover twice delayed on operate A1/A2 Supply SPDT_contact 1_15/18-15/16 SPDT contact 2 25/28-25/26 LED green **_____** t = set start-up time; t2 = changeover time (approx. 50 ms) ▲1 ... = Star-delta changeover with wiper function



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