

R E V I S I O N S				
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A	N/A	RE-FORMATTED FOR ATC-DEI	5-28-24	
DRAWN BY:			MARSH BELLOFRAM P.O. BOX 305 ST. ROUTE 2 NEWELL, WV 26050	
CHECKED BY:			TITLE OF PRODUCT INSTRUCTIONS  DTF100USD ASYMMETRIC FLASHER / REPEAT CYCLE TIMER	
APPROVED BY:				
		PART NO.	DTF100USD	REVISION A
ISSUE DATE:		NUMBER OF SHEETS IN THE BODY: 2		

## DTF-100-USD

[https://rebrand.ly/DTF\\_PDP](https://rebrand.ly/DTF_PDP)



## DTF100USD

## Asymmetric Flasher / Repeat Cycle Timer

## ATC & DIVERSIFIED ELECTRONICS

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Newell, WV 26050

Tel: 304-387-1200

[www.atcdiversified.com](http://www.atcdiversified.com)

Made in Czech Republic

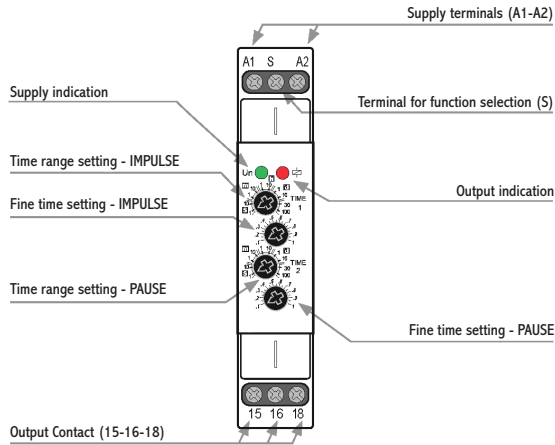
REV. A 5.28.24



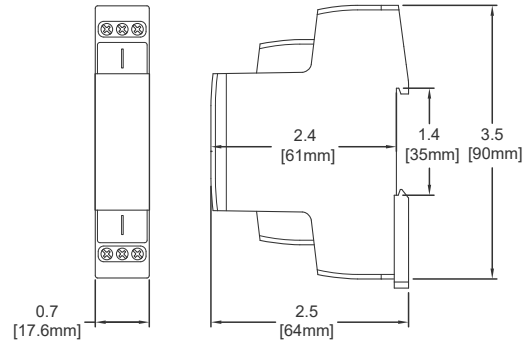
## Characteristics



















- Flasher with independent adjustable switch ON and switch OFF.
- Used for regular room ventilation, cyclic dehumidification, light control, circulating pumps, illuminated advertising, etc.
- 2 time functions:
  - Asymmetric FLASHER - ON first
  - Asymmetric FLASHER - OFF first
- Function choice is done by an external jumper of terminals S-A1.
- Time scale 0.1s - 100 days divided into 10 time ranges:
  - 0.1s - 1s / 1s - 10s / 0.1min - 1min / 1min - 10min / 0.1hrs - 1h / 1h - 10hrs / 0.1 day - 1 day / 1 day - 10 days / 3 days - 30 days / 10 days - 100 days.
- Time range setting via rotary switch.
- Fine time setting by potentiometer.
- Voltage range: AC 230V or AC/DC 12 - 240V.
- Output contact: 1x changeover / SPDT 16A.
- Multifunction red LED flashes or shines depending on the operating status.

## Description



## Dimensions



Type of load	 $\cos \varphi \geq 0.95$								
	AC1	AC2	AC3	AC5a uncompensated	AC5a compensated	AC5b	AC6a	AC7b	AC12
Mat. contacts AgNi, contact 16A	250V / 16A	250V / 5A	250V / 3A	230V / 3A (690VA)	x	800W	x	250V / 3A	250V / 10A
Type of load									
	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
Mat. contacts AgNi, contact 16A	250V / 6A	250V / 6A	250V / 6A	24V / 16A	24V / 6A	24V / 4A	24V / 16A	24V / 2A	24V / 2A

## Technical parameters

### SUPPLY

<b>SUPPLY TERMINALS</b>	A1 - A2
<b>VOLTAGE RANGE</b>	AC/DC 12-240V (AC 50-60 Hz)
<b>POWER INPUT (MAX)</b>	2.5VA/1.5W
<b>SUPPLY VOLTAGE TOLERANCE</b>	-15%; +10%
<b>SUPPLY INDICATION</b>	Green LED

### FUNCTION

<b>TIME SCALE</b>	0.1s - 100 days
<b>TIME SETTING</b>	Rotary Switch and Potentiometer
<b>TIME DEVIATION</b>	5% - mechanical setting
<b>REPEAT ACCURACY</b>	0.2% - set value stability
<b>TEMPERATURE COEFFICIENT</b>	0.01%/°C, at = 20°C 0.01%/°F, at = 68°F

### OUTPUT

<b>NUMBER OF CONTACTS</b>	1
<b>CONTACT FORM</b>	SPDT

### CURRENT RATING

<b>OUTPUT (55°C)</b>	16A/AC1 or 16A General Purpose at 250VAC
<b>OUTPUT (40°C)</b>	Pilot Duty B300
<b>OUTPUT (40°C, N/O ONLY)</b>	1HP at 240VAC, 1/2HP at 120VAC
<b>BREAKING CAPACITY</b>	4000VA/AC1, 384W/DC1
<b>INRUSH CURRENT</b>	30A / <3s
<b>SWITCHING VOLTAGE</b>	250VAC / 24VDC
<b>POWER DISSIPATION (MAX)</b>	1.2W
<b>OUTPUT INDICATION</b>	Multifunction Red LED
<b>MECHANICAL LIFE</b>	10,000,000 ops.
<b>ELECTRICAL LIFE (AC1)</b>	100,000 ops.
<b>RESET TIME</b>	max. 150ms

### OTHER INFORMATION

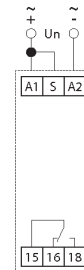
<b>OPERATING TEMPERATURE</b>	-20 to +55°C (-4°F to 131°F)
<b>STORAGE TEMPERATURE</b>	-30 to +70°C (-22°F to 158°F)
<b>OPERATING POSITION</b>	Any
<b>DIELECTRIC STRENGTH</b>	4kV AC (supply - output)
<b>MOUNTING</b>	DIN rail EN 60715
<b>PROTECTION DEGREE</b>	IP40 front panel / IP20 terminals
<b>OVERVOLTAGE CATEGORY</b>	III
<b>POLLUTION DEGREE</b>	2
<b>MAX CABLE SIZE (MM²)</b>	solid wire max. 1x 2.5 or 2 x 1.5 with sleeve max. 1 x 2.5 (AWG 12)
<b>DIMENSIONS</b>	90 x 17.6 x 64mm 3.5" x 0.7" x 2.5"
<b>WEIGHT</b>	61g (2.2oz)
<b>STANDARDS</b>	EN 61812-1

## Connection

Asymmetric FLASHER - ON first

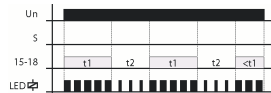


Asymmetric FLASHER - OFF first (jumper S-A1)

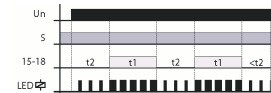


## Function

Asymmetric FLASHER - ON first



Asymmetric FLASHER - OFF first (jumper S-A1)



## More accurate setting of timing for long periods of time

- Example of time setting for an 8-hour period:
- For rough setting use time scale 1-10s on the potentiometer.
- For fine time setting aim for 8s on potentiometer, then re-check accuracy (using stopwatch, etc).
- On rough time setting, set potentiometer to originally desired scale 1-10 hours, leave the fine setting as it is.

## Warning

The device is designed for single-phase main installations of AC/DC 12-240V and must be installed in accordance with applicable local, state, and national regulations and standards. Installation, connection, setting, and servicing should be performed by qualified electrical staff only, who have been trained in these instructions and the functions of the device. This device contains protection against over-voltage peaks and disturbances in the supply. For the correct functioning of this device's protection, suitable higher-degree protections (A, B, C) must be installed upstream. According to standards, the elimination of disturbances must be ensured. Before installation, the main switch must be in the "OFF" position, and the device should be de-energized. Do not install the device near sources of excessive electromagnetic interference. For proper installation in cases of permanent operation and higher ambient temperatures, ensure adequate air circulation so that the maximum operating temperature of the device is not exceeded. For installation and adjustment, use a screwdriver approximately 2 mm in size. Proper functioning also depends on the methods of transportation, storage, and handling. If you notice signs of damage, deformation, malfunction, or missing parts, do not install the unit and notify your seller immediately. After use, properly discard according to local, state, and national regulations and standards.