

REVISIONS

REV	DC NO.	DESCRIPTION	DATE	APPROVED
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		
APPROVED BY:		DTF100USD ASYMMETRIC FLASHER / REPEAT CYCLE TIMER		
		PART NO.	DTF100USD	REVISION A
ISSUE DATE:	NUMBER OF SHEETS IN THE BODY: 2			

DTF-100-USD
https://rebrand.ly/DTF_PDP

UL
LISTED
E55826
DTF100USD
**Asymmetric Flasher /
Repeat Cycle Timer**
ATC & DIVERSIFIED ELECTRONICS

8019 Ohio River Blvd.
Newell, WV 26050
Tel: 304-387-1200
www.atcdiversified.com

Made in Czech Republic

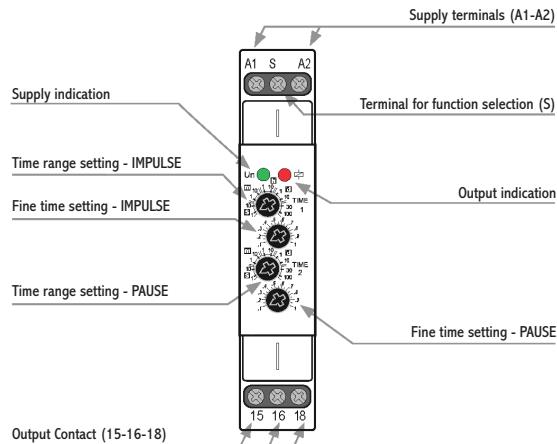
REV. A 5.28.24



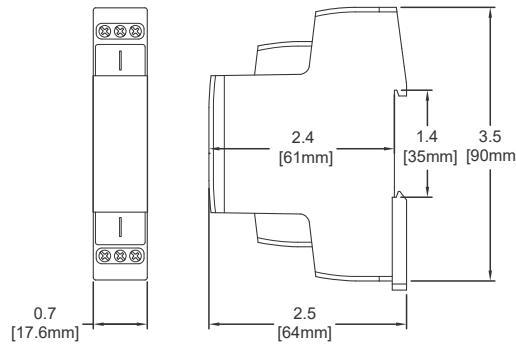
Characteristics

- 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	M AC2	M AC3	F AC5a uncompensated	F AC5a compensated	F AC5b HAL 230V	E AC6a	W AC7b	F 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	E AC13	W AC14	W AC15	F DC1	M DC3	M DC5	F DC12	W DC13	W 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

SUPPLY TERMINALS	A1 - A2
VOLTAGE RANGE	AC/DC 12-240V (AC 50-60 Hz)
POWER INPUT (MAX)	2.5VA/1.5W
SUPPLY VOLTAGE TOLERANCE	-15%; +10%
SUPPLY INDICATION	Green LED
FUNCTION	
TIME SCALE	0.1s - 100 days
TIME SETTING	Rotary Switch and Potentiometer
TIME DEVIATION	5% - mechanical setting
REPEAT ACCURACY	0.2% - set value stability
TEMPERATURE COEFFICIENT	0.01%/°C, at = 20°C 0.01%/°F, at = 68°F
OUTPUT	
NUMBER OF CONTACTS	1
CONTACT FORM	SPDT
CURRENT RATING	
OUTPUT (55°C)	16A/AC1 or 16A General Purpose at 250VAC
OUTPUT (40°C)	Pilot Duty B300
OUTPUT (40°C, N/O ONLY)	1HP at 240VAC, 1/2HP at 120VAC
BREAKING CAPACITY	4000VA/AC1, 384W/DC1
INRUSH CURRENT	30A / <3s
SWITCHING VOLTAGE	250VAC / 24VDC
POWER DISSIPATION (MAX)	1.2W
OUTPUT INDICATION	Multifunction Red LED
MECHANICAL LIFE	10,000,000 ops.
ELECTRICAL LIFE (AC1)	100,000 ops.
RESET TIME	max. 150ms
OTHER INFORMATION	
OPERATING TEMPERATURE	-20 to +55°C (-4°F to 131°F)
STORAGE TEMPERATURE	-30 to +70°C (-22°F to 158°F)
OPERATING POSITION	Any
DIELECTRIC STRENGTH	4kV AC (supply - output)
MOUNTING	DIN rail EN 60715
PROTECTION DEGREE	IP40 front panel / IP20 terminals
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	2
MAX CABLE SIZE (MM²)	solid wire max. 1x 2.5 or 2 x 1.5 with sleeve max. 1 x 2.5 (AWG 12)
DIMENSIONS	90 x 17.6 x 64mm 3.5" x 0.7" x 2.5"
WEIGHT	61g (2.2oz)
STANDARDS	EN 61812-1

Connection

Asymmetric FLASHER - ON first

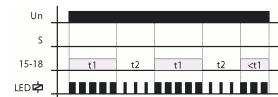


Asymmetric FLASHER - OFF first (jumper S-A1)

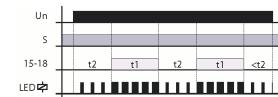


Function

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.