TD1 Time Switch
Instruction Leaflet DOCTD12021

VOLTAGE FREE CONTACTS

FuseBox®

1 Technical information

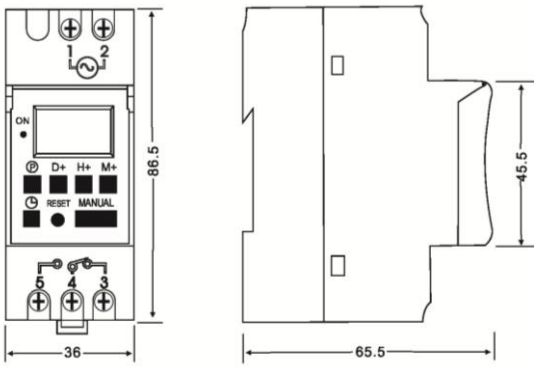
Rating (A)	16A/250V AC resistive load 4A/250V AC inductive load
Voltage(V)	220-240V 50/60Hz
IP RATING	**IP20** EN 60529
Mounting	35mm top hat din rail
Torque (switch terminals)	**0.8Nm**
Maximum cable	4mm²
Memory locations	16 ON 16 OFF
Power consumption	7.5VA
Display	LCD
Minimum setting	1 minute*
Bell function	*30s (set ON and OFF time the same)
Contacts	1 changeover contact (3,4,5)
Battery	Lithium battery, 150H reserve
Ambient temperature	-10~ +40℃
Ambient humidity	35~85%RH
Weight	150g
Accuracy	≤2sec/day(at25℃)
Complies with	EN 60730
IMPORTANT	**VOLTAGE FREE CONTACTS**

1b Time Switch must be installed by a qualified electrician in accordance with the current IET Wiring Regulations BS 7671.

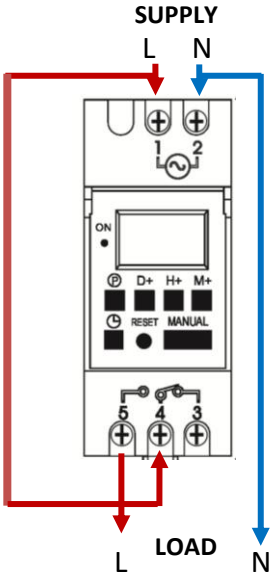
1c Total load must not exceed the rating of the time switch or any additional limitation.

1d For loads greater than above, we recommend an installation contactor is used, switched by the TD1 Time Switch.

1a Dimensions

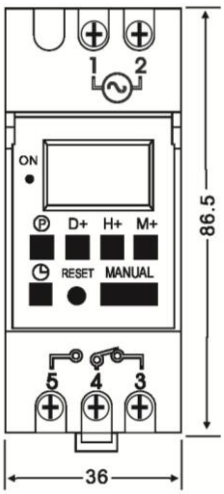


Connections (VOLTAGE FREE CONTACTS)



BUTTON FUNCTIONS

BUTTON	FUNCTION
ON LED	Illuminates when switching program is on
Ⓟ	Program button
🕒	Clock /Time button
D+	Day
H+	Hour
M+	Minute
RESET	**CAUTION** This will DELETE ALL settings!
	By pressing D+ and H+ for 3sec this will also delete all settings!
MANUAL	Manual switch for the following settings: **ON, ON AUTO, OFF, AUTO OFF**



After installation and testing of this product it is essential that the INSTRUCTION LEAFLET is available for reference

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2 Initial setup

2a Connect **SUPPLY** to terminals 1 and 2 and **LOAD** to terminals 4 and 5.
Torque connections to 0.8Nm. **Loose connections cause fires!!!!**
2b Press and hold "**RESET**" button for 3seconds to initiate programing functions.

3 Setting the DAY and TIME

Default setting is **24H** mode if you wish to change to 12H press "🕒"button for 5 sec, and LCD will display AM. If you want to change back to 24H mode press "🕒"button 5 sec		
Step	**Key**	**Setting the DAY**
1	**Press and hold 🕒 and press D+ TO CHANGE DAY**	The day is displayed at the top of the LCD display
		Setting the TIME
2	**Press and hold 🕒 and press H+ TO CHANGE HOUR**	Setting the hour
3	**Press and hold 🕒 and press M+ TO CHANGE MINUTE**	Setting the minutes
4	Press 🕒	To return to display

Before you start programming the time clock select the function required:
PROGRAMMING, PULSE OR COUNTDOWN (Only 1 of the 3 options can be used simultaneously).

4 Programming

Step	**Key**	**Programming ON memory locations**
1	**Press Ⓟ**	Setting **1 ON** time (display 1 ON)
2	**Press H+ or M+**	Set hours and minutes
3	**Press D+**	**DEFAULT IS EVERY DAY OF THE WEEK** or you can select one of the following options by pressing the D+ button OPTIONS: MO-FR,MO-SA,SA SU,MO-WE,TH-SA,MO WE FR,TU TH SA
Step	**Key**	**Programming OFF memory locations**
4	**Press Ⓟ**	Setting **1 OFF** time (display 1 OFF)
5	**Press H+ or M+**	Set hours and minutes
6	**Press D+**	**DEFAULT IS EVERY DAY OF THE WEEK** or you can select one of the following options by pressing the D+ button OPTIONS: MO-FR,MO-SA,SA SU,MO-WE,TH-SA,MO WE FR,TU TH SA
7	**Repeat step 2-6**	Set 2-16 ON/OFF times
8	**Press🕒**	**End**
To review programmed time settings press Ⓟ		

FOR THE PROGRAMMED TIMES TO OPERATE AUTOMATICALLY THE TIMER MUST BE SET TO "**AUTO OFF**"
(ON LED is NOT ILLUMINATED)
IF YOU ARE WITHIN THE SWITCHING TIMES YOU SHOULD SET THE TIMER TO "**AUTO ON**"
(ON LED is ILLUMINATED)
MANUAL OVERRIDE Press "**MANUAL**" to turn **ON, ON AUTO, OFF, AUTO OFF** programmed times

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5 **Pulse** ("P" displayed at left hand side of LCD)

Step	Key	Programming ON memory location
1	**Press and HOLD H+ and M+**	Enter pulse setting ("P" will display LHS)
2	**Press◷ and H+ or M+**	Set pulse time range: 1sec to 59min 59sec
3	**Press ◷ and MANUAL**	To confirm pulse time range ("P" flashes)
4	**Press P**	**Into setting 1 ON time (display 1 ON)**
5	**Press H+/M+**	Set hours and minutes
6	**Press D+**	**DEFAULT IS EVERY DAY OF THE WEEK** or you can select one of the following options by pressing the D+ button OPTIONS: MO-FR,MO-SA,SA SU,MO-WE,TH-SA,MO WE FR,TU TH SA
7	**Repeat steps 4-9**	**Set 2-18 ON** PULSE programs (OFF programs not required!)
8	**Press ◷**	**End** ("P" will continue to flash when PULSE program is set)
9	**Press and HOLD H+ and M+**	**Exit PULSE function**

6 **Countdown** ("d" displays in bottom LHC)

This is a manual operation only initiated by pressing the "**MANUAL**" button on the TD1

Step	Key	Programming COUNTDOWN function
1	**Press and HOLD P and ◷**	Enter COUNTDOWN setting ("d" displays in bottom LHC)
2	**Press◷ and H+ or M+**	Set COUNTDOWN time range: 1sec to 99min 59sec
3	**Press MANUAL**	Start COUNTDOWN
4	**Press P**	**Return to start of COUNTDOWN**
5	**Press and HOLD P and ◷**	**End COUNTDOWN** ("d" no longer displayed in bottom LHC)

7 **PAUSE** program settings

Step	Key	Programming PAUSE function
1	**Press ◷ and MANUAL for 3s**	Permanent "AUTO OFF" state("⌐" flashes in bottom LHC)
2	**Press ◷ and MANUAL for 3s**	To restore "AUTO" settings
PAUSE function can only be accessed when "AUTO ON" or "AUTO OFF" is displayed on the LCD		

8 **Auto time correction** ("7d" displayed at left hand side of LCD)

Step	Key	Programming ON memory location
1	**Press P and MANUAL**	Into count
2	**Press D+**	Setting -30s to +30s
3	**Press◷**	Confirm

5 Testing

5a On completion of the installation, it must be tested in accordance with the latest edition of the IET Wiring Regulations for Electrical Installations (BS 7671).

Environment

WASTE ELECTRICAL PRODUCTS SHOULD NOT BE DISPOSED OF IN HOUSEHOLD WASTE. CONTACT YOUR RETAILER OR LOCAL AUTHORITY FOR RECYCLING INFORMATION.