



CT41/42 Wiper Control Switch

Operates wiper motors for efficient window cleaning

- Size compatible with standard switches
- Cost effective and easy to install
- Self adjusting to your motors
- Wipers always synchronised
- Intermittent and 2 speed functioning
- Self parking
- Dual voltage for 12v and 24v systems
- Reliable and easy to use
- CT41 I wiper switch, CT42 2 wiper switch



CT41 and CT42 INTELLIGENT WIPER SWITCH

General

CT41 and CT42 are microcontroller-based "intelligent switches" for operating one (CT41) or two (CT42) wiper motors, providing all the functions required for efficient windscreen cleaning.



- Voltage supply: 12v or 24v
- Fit for any DC motors (see output current) and for any kind of parking switch
- Activates/deactivates each wiper one by one (CT42 only)
- Synchronization in each selected mode (CT42 only)
- · Three intermittent settings
- Perfect self parking position due to "dynamic brake"
- Wipe / wash program
- Dimmer input
- Standard switch size compatible
- · Reliable, easy to install and to use

Pack includes:

- I off CT41 or CT42
- I off ten pole connector with female pins
- 2 off female fast-on
- I off MANT4IPEVA or MANT42PEVA user manual

Controls and signalings

Push buttons scope

Controls are user friendly.

Button I: CT41 - ON/OFF Switch CT42 - by multiple pressing of No.1 button the following wipers selection are set:



Button 2: Increase speed / decrease time between strokes. Button 3: Decrease speed / increase time between strokes

All the push buttons have a double function, as described below.

Signalings

Three LEDs show wipers operation setting.

CT42 only: By pressing No.1 button, fast blinking LEDs will indicate the new wiper selection, as in the following chart:

Wiper selection	2 seconds long blinking		
ON both wipers		Fast blinking	
ON right only		Fast blinking	
On left only		Fast blinking	
OFF both wipers		LEDs OFF	

After fast blinking, leds will show the selected mode.

By pressing any button (CT41) or buttons No. 2 or 3 (CT42), mode will change and the LEDs:

- will flash as many time as delay time (in seconds) between strokes (4 flash if 4 seconds is the delay time selected between strokes).
- will have a light flash slowly if SLOW speed is selected, quickly if FAST speed is selected.

See the following chart.

MODE	light	Flashing
FAST		Fast slight blink
SLOW		Slow slight blink
2 sec. delay		2 Slow blink
4 sec. delay		4 Slow blink
8 sec. delay		8 Slow blink
OFF		LEDs OFF
Wipe/wash		
Failure	Asymm.	Continuous

Power supply

CT41 and CT42 will operate on a power supply of 10 up to 30 V DC. Insert connector (linked to motors) before supply power. When powered a lamp test is executed. CT41 and CT42 will stay in stand-by, ready to operate.

ON switching

By pressing No.1 or No.2 button, wiper(s) will start in SLOW speed mode (the only continuous mode possible if one speed motors are used).

OFF switching

By pressing No.1 button (CT41) or as many times as required by wiper selection (CT42), wiper(s) will stop in

The same can also be achieved by keeping No.3 button pressed for more than one second.

Wipe / Wash program

By keeping pressed no. I or no. 2 button more than one second, washing program will start.

1	3sec.	I	4 sec.	1	3 sec.	
==	== Spray	/====	= Spray ==	==		
		===	=== Wipe =		= Wipe ==	==

To increase wash timing or to increase spray/wipe time,

keep No.1 or No.2 button pressed. After wipe / wash, wipers will return for operating in the previous selected mode.

Failure

A continuous asymmetrical flashing indicates that CT41 or CT42 hasn't received one or both parking switch signals or, in the case of CT42, that it is not possibile to reach synchronisation. This may happen if:

- One (or both) parking switch is damaged or unconnected
- One (or both) motors do not run (damaged or unconnected)
- One (or both) motors do not run in FAST or in SLOW speeds
- Motors run at different speeds and it is not possible to reach synchronisation.
- 10 pole connector has been inserted after power supply and control works as with one speed motors

CT41:

- · Parking switch is damaged or unconnected
- Motor doesn't run (damaged or unconnected)
- 10 pole connector has been inserted after power supply and control works as with one speed

Voltage supply

Internal fuses

Protection

Input

Output

Functions

Connections

Case

Stand-by current

Motors – output currents

Wash / wipe program

Working temperature

Storage Temperature

Technical specifications

CT41

10v to 30v DC

Less than 20 mA

Polarity inversion

4 Amps PTC for each r

Single or double speed

I parking switch (open Dimmer (connect to +

I slow speed – SLOW

I high speed - FAST (it

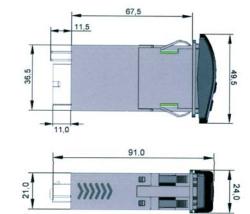
I wash pump (positive

3 intermittent settings 2 continuous speeds, sl

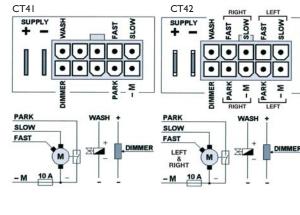
Wash / wipe program

10 poles connector - 2

171	CTTZ RIGHT LEFT		
SUPPLY H	SLOW AASH FAST SLOW SLOW SLOW		
DIMMER	RIGHT LEFT		
ARK WAS	SLOW		
M 10 A	DIMMER FAST LEFT 8 RIGHT - M 10 A		
	CT42		
	I0V to 30V DC		
motor	4 Amps PTC for each motor		
	Less than 20 mA		
	Polarity inversion		
- 4 Amps max.	Single or double speed – each motor 4 Amps max.		
in park position) - supply if not used)	2 parking switch (open in park position) Dimmer (connect to + supply if not used)		
f 2 speed motors) pole)	2 slow speed – L and R SLOW 2 high speed – L and R FAST (if 2 speed motors) I wash pump (positive pole)		
low and high speed	3 intermittent settings 2 continuous speeds, slow and high speed		
2 male 6.3mm fast-on	10 poles connector – 2 male 6.3mm fast-on		



Wiring



ABS black

-10 °C / +50 °C

-20 °C / +70 °C

ABS black

-10 °C / +50 °C

-20 °C / +70 °C



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