Speich__ CT41 USER'S MANUAL

1. General



CT41 is a microcontroller based wiper control for operating one wiper motor: it provides all the functions for a proper windscreen cleaning.

- Voltage supply: 12V or 24V
- It fits any DC motor (see output current) and anv

kind of parking switch.

- Three interval delays
- Self parking with dynamic brake
- Wipe/wash program
- Dimmer input
- Standard switch size compatible
- Easy to install and to use
- Reliable

Packet include:

- no. 1 CT41
- no. 1 ten pole connector with female pins
- no. 1 user manual

Controls and signalings

Push buttons scope

Controls are user friendly.

- ON/OFF switch
- 2 increase speed / decrease time between strokes.
- decrease speed / increase time between strokes

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

Signalings

Three leds show wipers operation setting. By pressing any button, mode will change and the leds:

- will flash as many times 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.

After blinking, leds will show the selected mode.

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

3. Power supply

CT41 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 will stav in stand-by, ready to operate.

4. ON switching

By pressing no. 1 or no. 2 button, wiper will start in SLOW speed mode (the only possibile continuous mode if one speed motor is used).

5. OFF switching

By pressing no. 1 button, wiper will stop in park position.

The same by keeping pressed no. 3 push button more than one second.

6. Wipe / Wash program

By keeping pressed no. 1 or no. 2 button more than one second, washing program will start.

| 3sec. | 4 sec. 3 sec.

|== Sprav=| === Sprav ===| |==== 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.

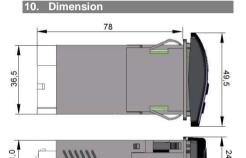
Failure

A continuous asymmetrical flashing indicates that CT41 doesn't receive the parking switch signal.

This may happen if:

- parking switch is damaged or unconnected
- motor doesn't run (damaged or unconnected)
- 10 poles connector has been inserted after supply power and control works as with one speed motor.

9. Wires NAX BANEL LIGHT POWER SUPPLY WASH SLOW FAST – M



8. Technical specifications

SPEICH CT41		
Voltage supply	10V to 30V DC	
Protection	4 Amps PTC	
Stand-by current	Less than 20 mA	
Polarity inversion	Protected	
Motor – output current	Single or double speed – 4 Amps max.	
Input	1 parking switch (open in park position)	
	Dimmer (connect to + supply if not used)	
Output	1 slow speed – SLOW	
	1 high speed – FAST (if 2 speed motors)	
	1 wash pump (positive pole)	
Functions	3 intermittent settings	
	2 continuous speeds, slow and high speed	
	Wash / wipe program	
Connections	10 poles connector	
Case	ABS black	
Working temperature	-10 ℃ / +50 ℃	
Storage Temperature	-20 ℃ / +70 ℃	

