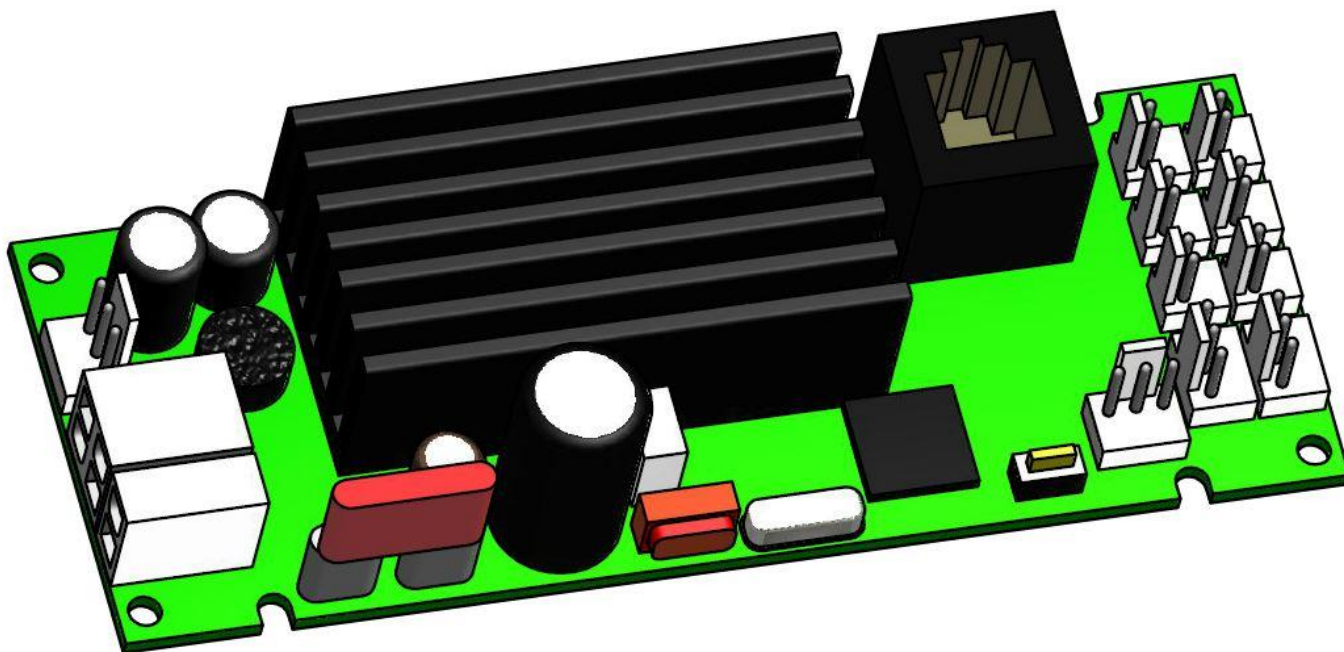
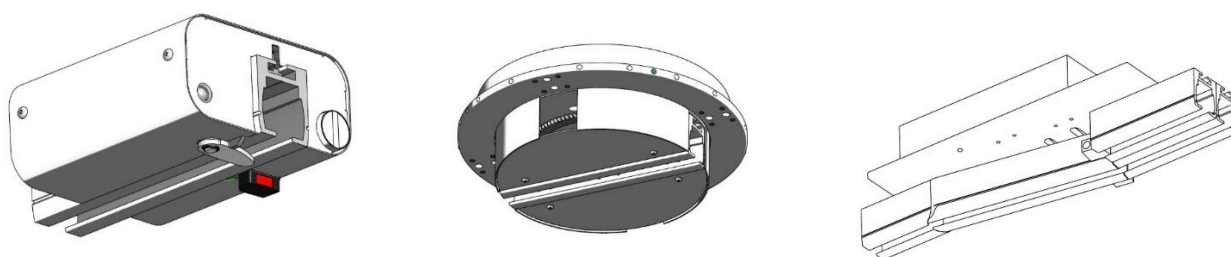


## Short user-guide for CTS Print card on Airglide360 devices.



Innova® is a trading name of CoreCare Global Ltd, a company registered in England & Wales at HG2 7TE.  
Trading address: Unit 700, Street 5, Thorp Arch Estate, Wetherby, LS23 7FZ. Registered Company Number: 08931470.

# CTS-001 Print Card and Interface

The new CTS-001 print-card is developed for our 3 most important rail-components: **Coupling, Turntable and Switch.**

One print-card to fit all 3 components, contains 4 different software programs;

- 1) Coupling program
- 2) Switch program
- 3) Turntable program
- 4) Program for 2 paired Couplings

All functions of the CTS-001 print-card are all **sensor based** and no manual input is required to operate the components.

The CTS-001 can be programmed with the **CTS-001 Interface Unit.**

This device also allows the user to set and change parameters when required, also counters can be displayed.



A list of Parameters is at page 7 in this guide.

**A new Airglide360 component, equipped with the CTS-001 Print-card, is already programmed and tested.** In normal cases the Interface Unit will only be used to display counters or to test functions.

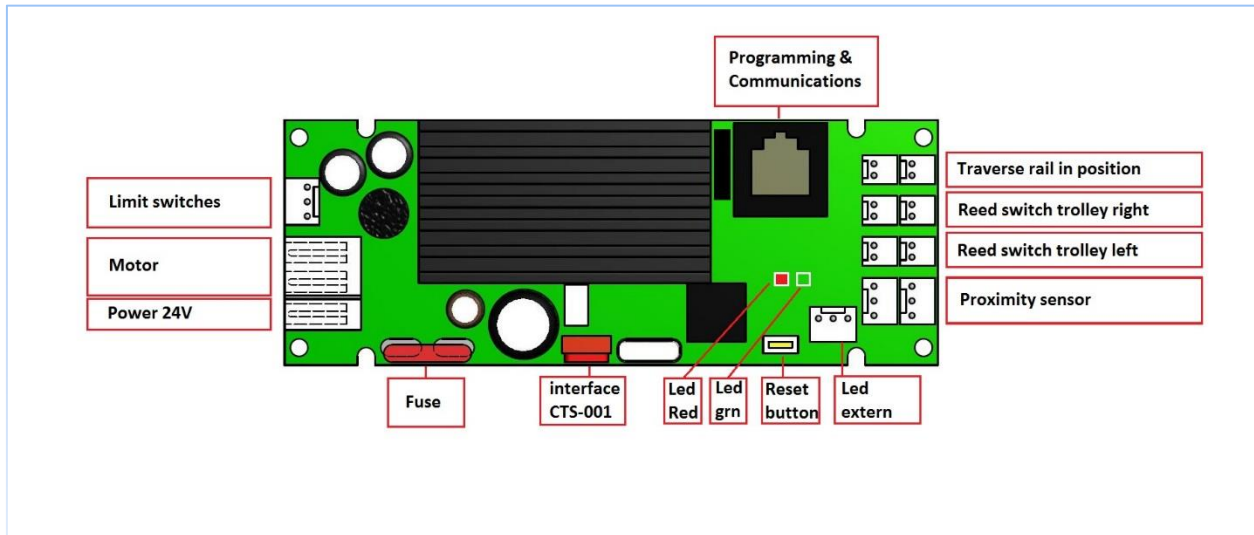
In some cases one or two parameters can be changed, for example when a customer wants the device to react faster or slower, or when slightly more power is required in order to move or (un)lock.

How to set parameters or display counters is described on page 5 and 6.

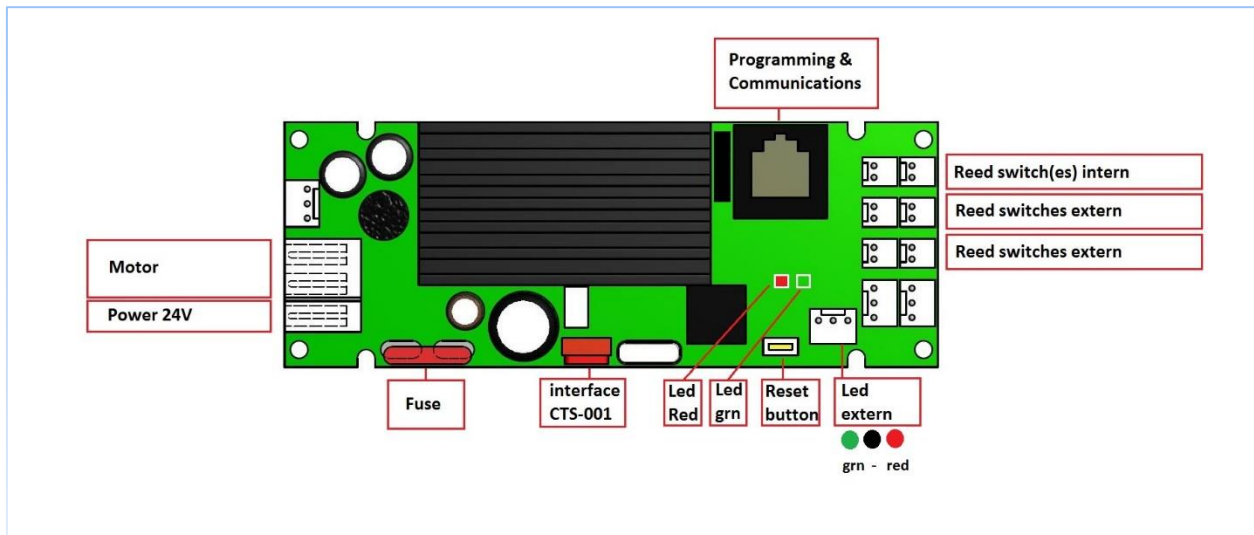
# CTS-001 Print Card and Interface

CTS-001 Connections overview:

## Connections Coupling:

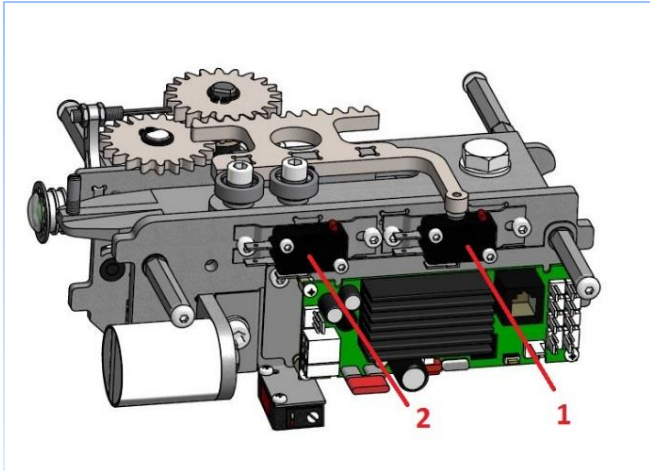


## Connections Turntable and Switch:

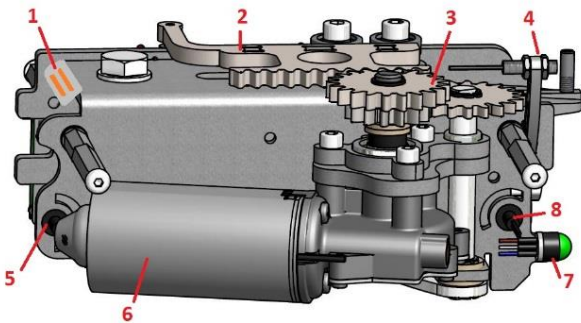


# CTS-001 Print Card and Interface

## Details Coupling:



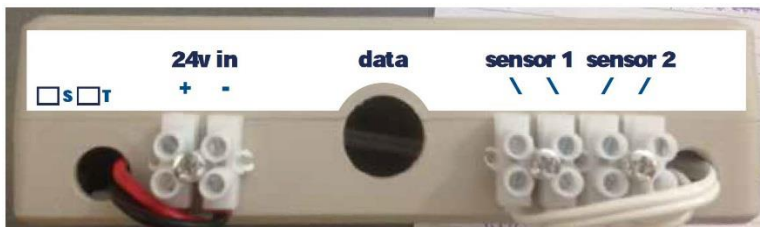
1. Microswitch Unlock
2. Microswitch Lock



1. Power in (24V)
2. Crown
3. Cog-wheel
4. Sensor "traverse rail in line"
5. Sensor trolley Left
6. Motor
7. LED
8. Sensor trolley Right




## Details Turntable and Switch:

A box is placed on top of turntable and switch which contains the CTS-001 Print Card. Connections are displayed on box, multiple sensors can be connected to these two devices.







# CTS-001 Print Card and Interface

## Programming the CTS-001 at first start-up (new print card)




Step	CTS-001 Interface Unit		Actions
	Screen	Buttons	
1	Set Device ID: 255 (0..255)		Start-up screen new print card  <b>255 is blinking</b>
2			Press (+) button to set an ID number between 0 and 255 (can be a random number)
3	Set Device ID: 010 (0..255)		In this case 10 was set.
4			Press 2 sec. save (arrow up) To save setting.
5	Set Device Type: 000 (1 . . 004)		Next screen: Set Device Type: 1= Coupling 2= Turntable 3= Switch 4= paired coupling (1026)
6	Set Device Type: 001 (1 . . 004)		Press (+) button to choose device type. In this case 1 (coupling) was set
7			Press 2 sec. save (arrow up) To save setting.
8	> Load & Edit Copy to device		This screen appears after first set-up.



## Reading/setting parameters

Step	CTS-001 Interface Unit		Actions
	Screen	Buttons	
1	> Load & Edit Copy to device		Start-up screen Programmed Printcard
2			Press (+) button to select "load & edit"
3	01 : Parameter 0000001 (0 . . 255)		Parameter 01 is displayed
4			With <b>up</b> and <b>down</b> arrow you can scroll through list of parameters Select with Yes/select (2sec
5	14: Parameter 0002650 (0-10000)		Change setting with – and + In this case 2650= 2,65 Ah Save setting with <b>2sec. save</b>
6	> Load & Edit Copy to device		Press 2sec. menu, to go back to Start-up screen

## Reading input signals

Step	CTS-001 Interface Unit		Actions
	Screen	Buttons	
1	> Load & Edit Copy to device		Start-up screen Programmed Print card
2			Press (+) button to select "load & edit"
3	01 : Parameter 0000001 (0 . . 255)		Parameter 01 is displayed
4			With <b>up</b> and <b>down</b> arrow you can scroll through list of parameters Select <b>27</b> with Yes/select (2sec)
5	27: Parameter 0000100 (0..-1)		The row 0's represent the sensors 0= inactive 1= active In this example sensor left is activated (sensor5) see list in list of parameters (page7)
6	> Load & Edit Copy to device		Press 2sec. menu, to go back to Start-up screen

# CTS-001 Print Card and Interface

## CTS-001 Parameters

Parameter.nr	Category	Parameter	presets in Yellow	remark	required
1	Adress	Adres (device ID)		set (1...098)	yes
2	Customer	Name		Set Number or code	
3		Productname		Set Number or code	
4		Device type		1= coupling 2=turntable 3= switch 4= paired coupling	yes
5		Serial number		Number or code	
6	manufacturer	Software versie		Displays current version	
7		PCA <sup>A</sup> versie		Displays current version	
8		PCB <sup>B</sup> versie		Displays current version	
9	Statics	Counter unlock (switch and turntable motions)		Displays memory	
10		Counter lock (nu function for S <sub>witch</sub> & T <sub>urntable</sub> )		Displays memory	
11		Event counter Current overload (blocked move)		Displays memery	
12		Counter dynamic Current overload (not for S&T)		Respons on current changes	
13		Event counter sensor sensor 8 during unlock (not for S&T)		Sensor 8 is activated when hoist goes back to coupling during unlock	
14	Technical	Setting current limit	C-2650 T-1150 S-1500	Adjustable (1000=1Amp)	yes
15		Setting number events before safety mode	5	Adjustable	yes
16		Temperature PCB		Displays value	
17		Volts in		Displays value	
18		Trolley detected	C-1000 T-1500 S-1500	Adjustable (1000=1sec.)	yes
19	Commands	define "trolley in fixed track"		(press (+) 2sec, then save) Pcb now thinks trolley is in fixed track	
20		define "trolley in traverse rail"		(press (+) 2sec, then save) Pcb now thinks trolley is in traverse rail	
21		Initiate <b>unlock</b> (motion Left for S&T)		(press (+) 2sec, then save) Coupling unlocks (S&T move left)	
22		Initiate <b>lock</b> (motion Right for S&T)		(press (+) 2sec, then save) Coupling locks (S&T move right)	
23		Reset counters unlock/lock and motion		(press (+) 2sec, then save) Reset memory	
24		Reset counters Current events		(press (+) 2sec, then save) Reset memory	
25		Reset "sensor 8" events (not for S&T)		(press (+) 2sec, then save) Reset memory	
26	Optioneel	Reset micro controller		Reset PCB (same function as reset button on PCB)	
27	Input signals	000_000 Proximity sensor		0=not active 1= active	
		000_0000 Trav rail in position (trolley on sensor S&T)			
		000_0000 Sensor Left (sensor 5) (not for S&T)			
		000_0000 Sensor right (sensor 8) (not for S&T)			
		00_00000 Microswitch unlocked (nr.1)			
		0_0_0000 Microswitch locked (nr. 2)			
		00_0000		undefined	
28	Output signals	000_000 Status slot		0=unlocked, 1=locked, 2=unknown	
		000_0000 Trolley position		0=fixed track, 1=traverse rail, 2=unknown	
		000_0000 Status motor		0=off, 1=on, 2=fault	
		000_0000 Motor c		0=no, 1=yes	
		00_00000 Max. motor running time event		0=yes, 1=no	
		0_0_0000		undefined	
		00_0000		undefined	