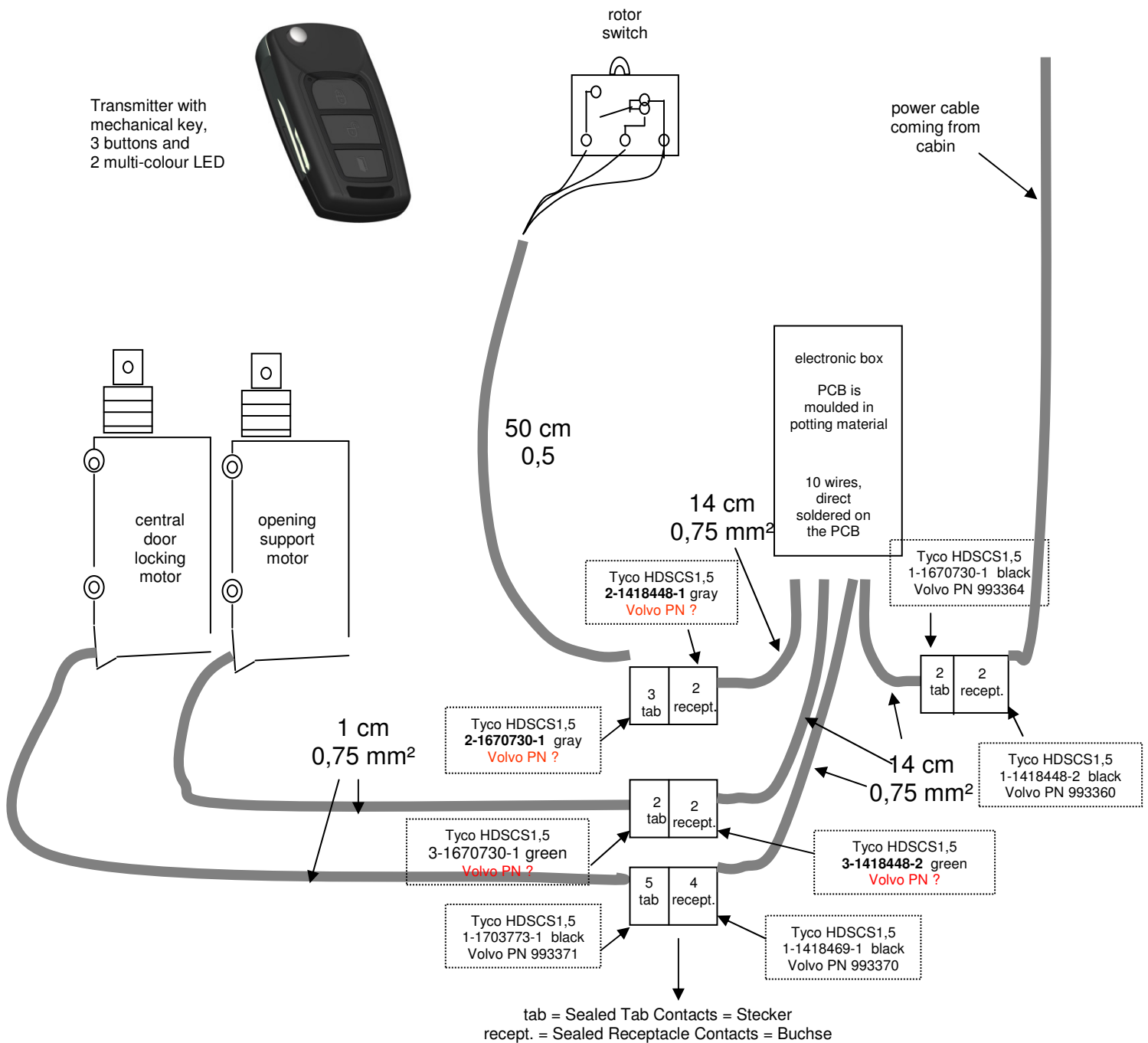


Functional description

The main function of the system is to lock / unlock the mechanical door lock, and to open the cabin door via a RF remote control transmitter key (868/916MHz) with the electronic box as RF receiver/transceiver.





Picture 1 shows the door lock mechanism with tow fitted motors and CDL-OS controller with all connectors, the rotor switch, and the RF remote control transmitter key.

Abbreviations:

CDL = Central Door Lock

OS = Opening Support

General Function

The system is powered directly from the vehicle battery (24V system).

Both motors are switched by a full bridge driver in the electronic box. The CDL motor has an internal switch for signalling the mechanical position to the electronic controller. The OS motor has an integrated strong spring for pulling the motor back into the “zero position”, so the OS motor needs no switch inside.

The system can be used in both 12V and 24V systems. The CDL and OS motors are 12V motors. Voltage and current of the motors are fully controlled by the electronic → results are a constant force in the full temperature range and a protection against overload and overheat.

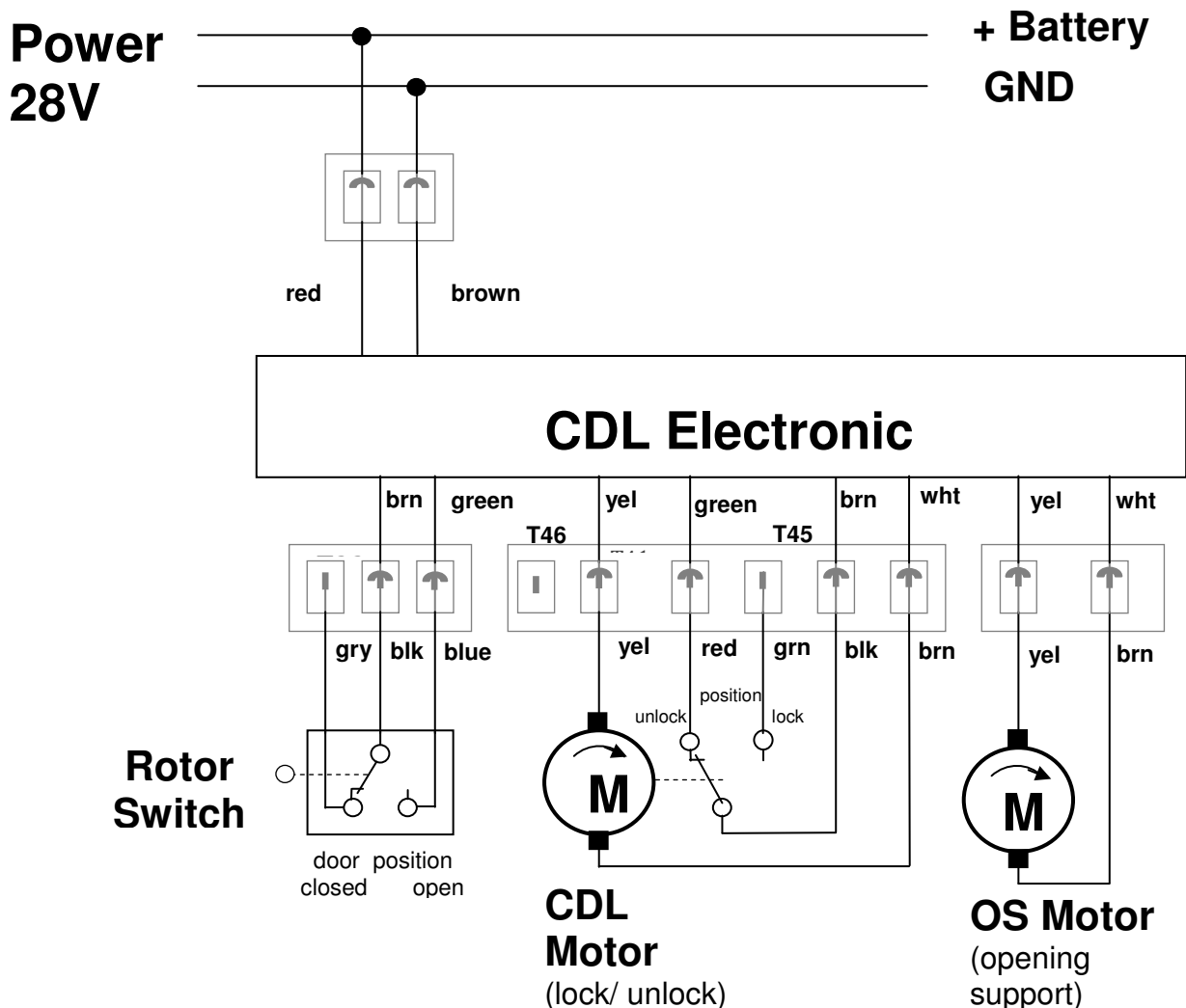
The rotor switch monitors the information of a fully closed cabin door.

Power consumption in idle mode: < 8 mA
 Power consumption with CDL motor working: < 5 A
 Power consumption with OS motor working: < 9 A

Wiring Harness

The harness is shown in picture 1.

The following diagram shows the assignment of the connectors and the wiring colors:



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Document for	FCC and IC	Creation date: 11.10.2019

CDL0236 Compliance Statements

Compliance Statements FCC

The title “CAUTION TO USERS” or “FCC/IC WARNING NOTE” or relevant title and “Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.”

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Compliance Statements IC

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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