

1. Features

- Operation of hydraulic lifts for disabled passengers
- Auto-detection of battery voltage. No extra setting for 12V or 24V vehicles.
- Two outputs for hydraulic valves
- Four outputs for external warnings and signalling
- Short circuit and overheating protected outputs
- Eleven software configurable inputs to detect positive or negative signals
- One analogue configurable input
- ECE R10 (EMC) certification pending
- AEC qualified semi-conductor components
- After-sales logging of lift operations (optional)
- CAN connectivity (optional)



2. Absolute Maximum Ratings

DC Voltage (Battery and all inputs)	32	V
Hydraulic Valve Output Current¹ (On pins A1, B1)	3,70	A
Warning Output Current² (On pins A8, B8)	2,40	A
Signalling Output Current³ (On pins C6, C7)	700	mA
Operating temperature	-40 / +125	°C

¹ Safe operation continuous current. Momentary currents up to 12 A are permitted.

² Safe operation continuous current. Momentary currents up to 6,50 A are permitted.

³ Safe operation continuous current. Momentary currents up to 1,40 A are permitted.

3. Operating Conditions

	Minimum	Typical	Maximum	
DC Voltage (Battery)	9	-	32	V
Positive Input Voltage	9	-	-	V
Positive Input Sink Current¹	1,58	1,80	2,02	mA
Positive Input Sink Current²	4,23	4,80	5,40	mA
Negative Input Voltage	-	-	0,75	V
Negative Input Source Current³	-65	-115	-185	µA
Standby Current (No input)	-	-	17	mA

¹ At 14V

² At 28V

³ When directly connected to battery negative

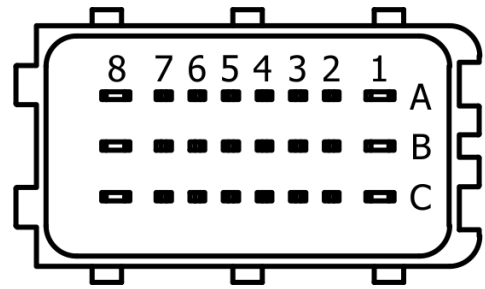
4. Connector

Seco: SC-B004.11 (Grey)

Mating Connector

Seco: SC-B004.01

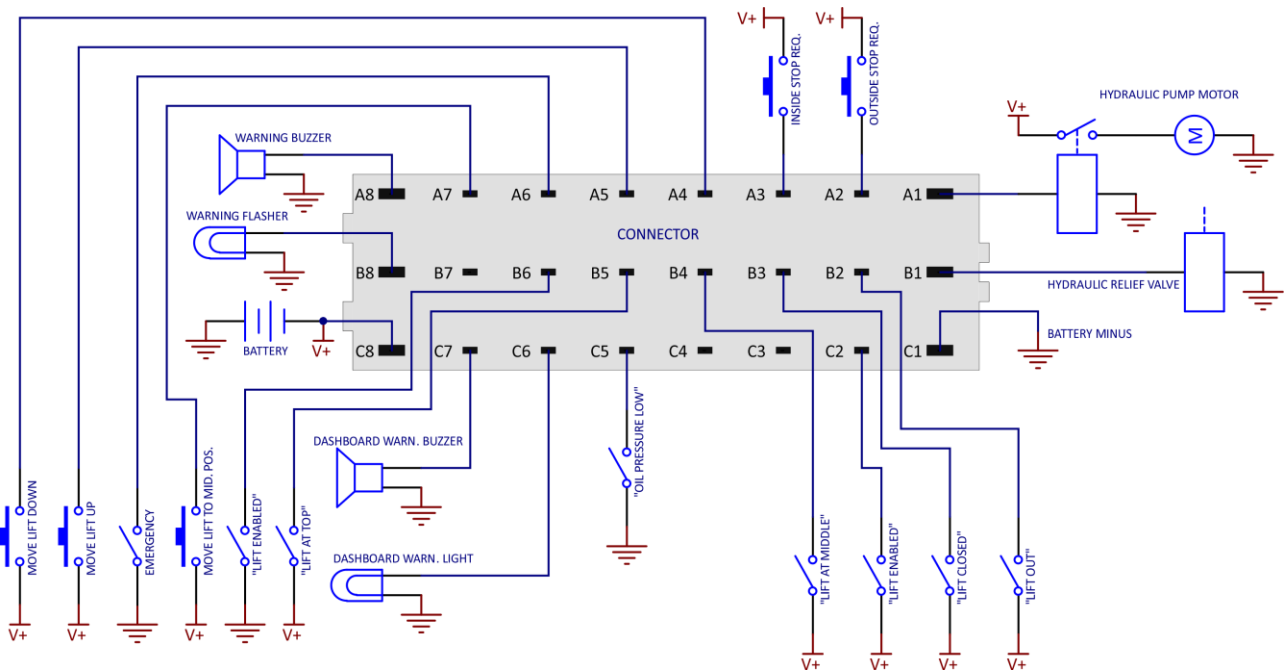
Delphi/FCI: 211 PC249S80xx



5. Wiring

Common wiring for double wing door with 4585.

The functionality of all pins can be re-designed by software.



6. Pin Functions

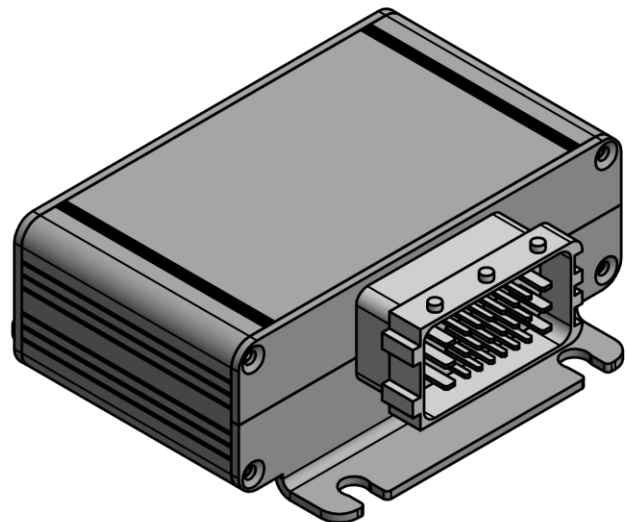
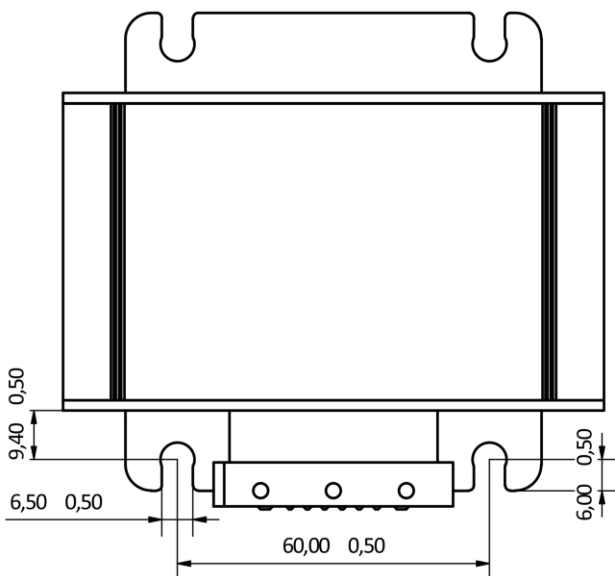
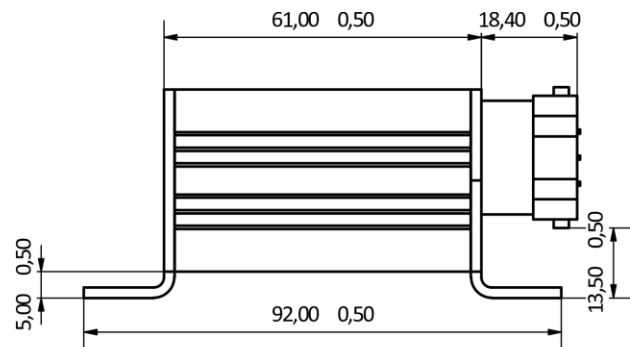
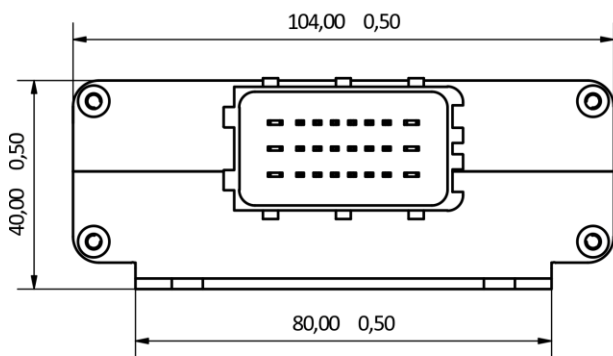
Recommended connections for software 7.00. Various configurations are possible by software.

A1	Hydraulic pump relay output (+)
A2	Inside passenger stop request button input – Plus active
A3	Outside passenger stop request button input – Plus active
A4	“Move Lift Down” command input – Plus active
A5	“Move Lift Up” command input – Plus active
A6	Emergency input – Minus active
A7	“Move Lift to Middle Position” input – Plus active
A8	Lift buzzer output (+)
B1	Hydraulic relief valve output (+)
B2	“Lift Out” switch input – Plus active
B3	“Lift Closed” switch input – Plus active
B4	“Lift at Middle Position” switch input – Plus active
B5	“Lift at Top Position” switch input – Plus active
B6	“Lift enabled” input – Minus active (Connect to “Handbrake Pulled” or “Door Open” switch)
B7	System Halt and Reset – Minus active (DO NOT CONNECT UNLESS NECESSARY)
B8	Lift flasher light output (+)
C1	12V/24V Battery -
C2	“Lift Enabled” input – Plus active (Connect to “Lift ON/OFF” toggle switch)
C3	Not connected - Hardware configurable as CANL
C4	Not connected - Hardware configurable as CANH
C5	Oil pressure switch – Minus active
C6	Dashboard warning light (+)
C7	Dashboard warning buzzer (+)
C8	12V/24V Battery +

7. Appearance and Weight

Body	Black anodized aluminium
Mounting brackets	Black anodized aluminium
Weight	190 gram

8. Dimensions



9. Ordering Options

4570	Standard lift control module
4570C	Standard lift control module with CAN connectivity

10. Software Options

Software options can be defined with customer based on project requirements. This document is based on software 7.00 as a recommendation only.

11. Revisions

REVISION	DATE	DESCRIPTION
*	27.03.2019	Initial release