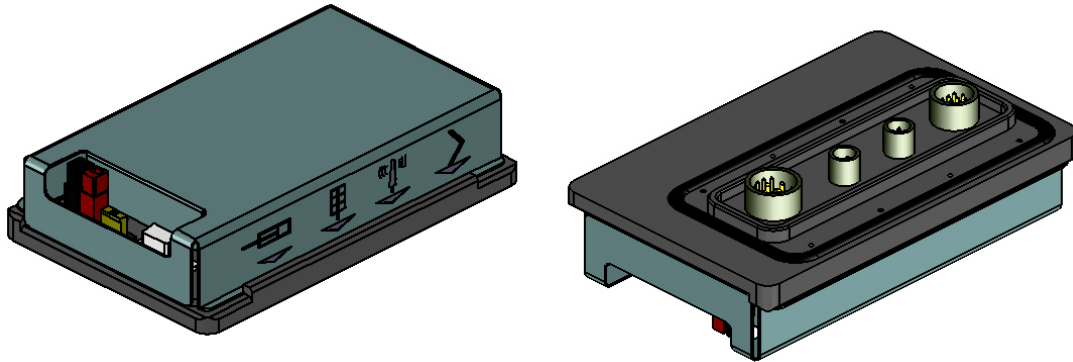


CONTROL UNIT

The Control Unit is a control sub-assembly part of each SwiftGate and SwiftSign module.



The control unit is equipped with a battery charger module, an actuator controller, a light control device and a communication port specifically designed for the SwiftGate and SwiftSign system.

• BATTERY CHARGER

The battery charger can be connected to a solar panel or a DC power supply. The battery charger input can vary from 18VDC to 22 VDC for optimal charge. Its current consumption is limited to 2.0 Amp.

Typically, for solar solutions, a 30 Watts Solar Panel is used. For wired solutions, the typical power supply is an adjustable 24VDC 5 Amps.

• ACTUATOR CONTROLLER

The actuator controller deploys or retracts the actuator while looking at the limit switches to stop the action.

The actuator controller provides a security to limit the actuator activation time in the event that limit switches are not reached due to malfunction or obstacle.

A slip clutch is part of the actuator to prevent damage.

• LIGHT CONTROL DEVICE

The light controller can control up to 2 sets of lights (L1-L2).

The selectable lighting patterns are the following:

- L1 ON, L1 OFF, L1 50%ON-50%OFF
- L2 ON, L2 OFF, L2 50%ON-50%OFF
- Alternate L1-L2 (50%L1-50%L2)
- Alternate L1-L2 (25%L1-25%L2)

The light controller is able to synchronize the lights with those of other modules and turn them on all at the same time or sequence them with a delay.

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The typical Light configuration on a SwiftGate is L1 50%ON-50%OFF. Using this configuration, the set of lights starts flashing as the deployment starts and continues to flash while deployed. This set of lights stops flashing once the gate is completely retracted.

▪ COMMUNICATION PORT

The communication port is used to communicate with the SwiftGate and SwiftSign Control Unit.

The communication port is an RS-232 interface. It can be connected with the Versilis RF Modem-Antenna for an RF solution or an RS-485 converter for a wired solution.

When an RF Solution is being used, the communication port can also provide a repeater function to improve the communication distance.

The communication port also provides power for the selected interface solution if needed. The power is supplied by the battery.

HOW TO COMMUNICATE WITH THE CONTROL UNIT

The two communication options for the Control Unit are the following: RF handheld remote control and/or Commander Unit.

The Versilis RF handheld remote control option is the perfect way to operate the SwiftGate and SwiftSign solution when the operator is on site. In this case the RF Solution on the communication port must be chosen.

The Versilis Commander Unit offers different options for communication with the SwiftGate/SwiftSign; those options are:

- RF Solution
- RS-485 Solution
- Fiber Optic Solution

The different solutions can be mixed if needed.

For more information on the Commander Unit see the Commander Unit Product Sheet and the Commander Unit Data Sheet.

