1-Wire iButton Reader

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Introduction to the product

Description:

One of the implemented features for fleet management devices is 1-Wire data protocol, which can be used for iButton reading. It is the most straight-forward way to implement driver authorization in your vehicles.

1-Wire iButton readers are great in these use cases:

- Immobilizer - prevent anyone from starting the vehicle without scanning an iButton first.
- Authorized driving - keep track of who is driving your vehicle according to the iButton ID they use to authenticate themselves.
- AutoGeofencing – gives ability to know when car leaves customized areas without iButton authorization.

Product Specification

NAME	DESCRIPTION
Interface	1-Wire Interface
Wiring	White wire = 1-wire signal, Brown wire = Ground
Case material	Plastic (polyacetal)
Ring material	Ferrite steel with chrome plating
Signal joint material	Brass with chrome plating
Fastening method	M12 screw
Wire dimensions 2 wires	Ø 0,25 mm2
Cable length	40 cm
Operating temperature	-40 ºC to +85 ºC
Operating humidity	Up to 70%
Supported by	FMB110, FMB120, FMB122, FMB125, FMU125, FMM125, FMC125, FMB130, FMU130, FMC130, FMM130, FMB140, FMB202, FMB204, FMB640, FMC640, FMM640

Installation

To connect the 1-wire iButton reader, simply connect the 1-Wire Signal wire from the reader to the 1-Wire Data pin on the device, and connect the ground wire to the same grounding used for the device.

PIN NUMBER	PIN NAME	DESCRIPTION
1	**1-wire Data (Dallas Data)**	Sends iButton ID
2	**GND** (-)	Ground.

Device configuration

The reader works as soon as it is connected, but the iButton isn't used anywhere other than displayed in the iButton I/O element. In order to use it for the Immobilizer scenario, the device must have the scenario enabled. Then, iButton check can be enabled to only accept iButtons specified in the iButton list under the 1-Wire tab.