Alarm module

AM1

Function

The AM1 alarm module is designed to signal system failures. It is connected to the VBus data connection of the iSolar controllers and issues an optical signal via the red Flash-LED if a failure has occurred. The AM1 also has a dry contact output relay, which can be connected to an additional signaling device or to a building management system.Thus, a multi-modal error message can be issued in the case of a system failure.

Depending on which iSolar controller and the sensors connected, different fault conditions can be signaled. For example sensor failures, excess system temperature, excess collector or tank temperature, as well as errors in the flow rate, such as a dry run of the pump. The AM1 ensures that occurring failures can be immediately recognized and repaired, even if the system and the controller are difficult to access or located in a remote place.

Product range

Code NA15009 AM1 alarm module with red Flash-LED light and one dry contact output relay

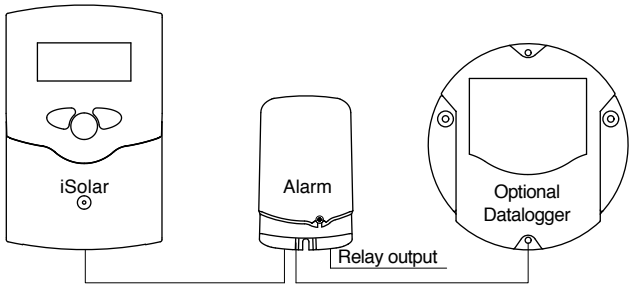
Technical specifications

Housing plastic:	PC-2207 UV
Protection type:	Indoor only
Ambient temperature:	-15 ... 160ºF (-25 ... 70ºC)
Mounting:	wall
Display:	1 Red LED
Interface:	VBus data connection
Power supply:	VBus
Outputs:	1 dry contact relay
Switching relay capacities:	1 A, 24V AC/DC
Agency approvals	CE

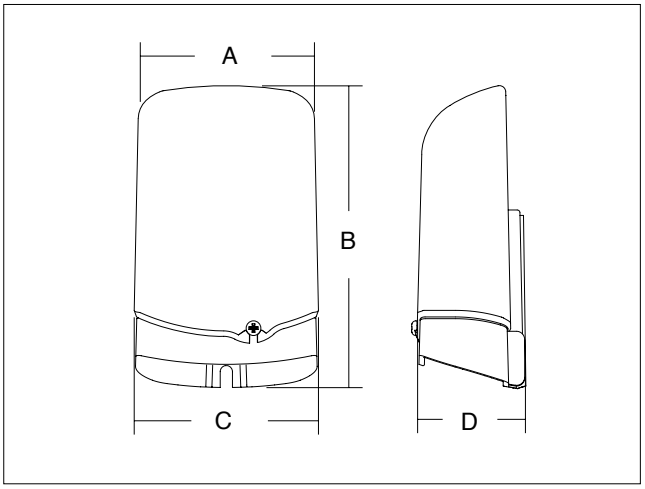
Operating sequence

When the AM1 is operational, the LED will glow continuously to signal operational readiness. If the LED does not glow, check the connection of the device. The AM1 receives the VBus data packets of the device connected. In the case of a failure signal, the integrated Flash-LED flashes and the AM1 activates the dry contact output relay. The relay can be used to connect an additional signaling device, or to a building management system.

Data communication example



Dimensions



Code	A	B	C	D	Weight (lb)
NA15009	2 1/2"	4 3/8"	2 5/8"	1 1/2	0.3

Data connections

The AM1 is designed for easy connection to all iSolar controllers through the VBus data connection. Connect VBus wires to the terminals marked "VBus" with either polarity. The bus wire can be extended with two conductor wire (bell wire).The wire must be at least 20 AWG (0.5 mm²) and can be extended up to 150 feet. To the "Relay" terminals, a load can be connected with either polarity.