

The DALLAS iButton reader is a device used for execution of the access control function. It is designed to read the unique iButton code. It can interface with the CA-64 DR expander for DALLAS iButton readers or with the ACCO-KPWG-PS and ACCO-KPWG access control modules.

The reader has two-color (red and green) LED, which may be used for communication between the alarm control panel / ACCO access control module and the user.

Explanations for Fig. 1:

- 1 – LED
- 2 – plastic pad
- 3 – locking nut
- 4 – electric cable

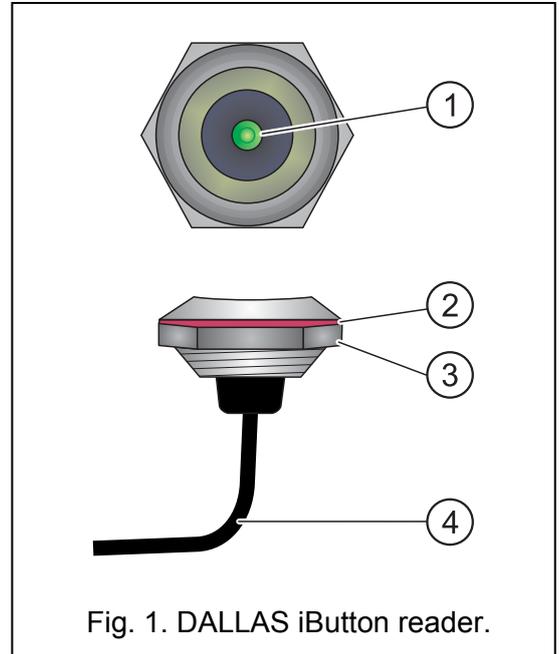


Fig. 1. DALLAS iButton reader.

1. Operation

In order to get access, touch the iButton to the reader. You may also hold it for about 3 seconds. The type of response to touching the reader or holding the iButton depends on the settings of expander / ACCO access control module. Depending on the device to which the reader is connected, the data (read-out iButton code) will be sent:

- by the expander to the control panel, which in reply to it will react according to the preprogrammed function and authority level of the user of the particular chip, e.g. it will release an electromagnetic door lock;
- directly by the reader to the ACCO access control module, which after user identification, based on the DALLAS iButton, will execute functions available to the user.



Fig. 2. DALLAS iButton.

2. Installation

The CZ-DALLAS reader is designed for mounting on walls down to 3 mm thick. It can also be installed outdoor, directly in the wall or door frame. In order to install the reader, drill a hole with a diameter of 20 mm, put the reader into the hole and secure it from the inside with the fastening nut. In case of partitions having a larger thickness, it is possible to fasten the reader by means of a suitable mounting glue.

3. Connecting iButton reader

The CZ-DALLAS reader cable consists of five electrical wires which should be connected to corresponding terminals of the CA-64 DR expander or the ACCO-KPWG-PS / ACCO-KPWG module,

according to Table 1. The length of the cable should not exceed 30 m. Both the expander and the ACCO access control modules can work simultaneously with two readers of this type. The first of them will act as Terminal A (entry terminal), and the other one – as Terminal B (exit terminal).

Wire color	Function	CA-64 DR module terminals		ACCO-KPWG-PS / ACCO-KPWG module terminals	
		Reader A	Reader B	Reader A	Reader B
white	data	SIGA	SIGB	SIG1A DISA	SIG1B DISB
gray	common (data)	COM	COM	COM	COM
green	green LED anode	LD1A	LD1B	LD1A	LD1B
brown	red LED anode	LD2A	LD2B	LD2A	LD2B
yellow	LED cathode (common)	COM	COM	COM	COM

Table 1. Method of connecting the DALLAS chip reader wires to the control device terminals.

Notes:

- If the CZ-DALLAS reader is used in conjunction with ACCO access control modules, remember, when connecting the A reader, to connect the SIG1A and DISA terminals with an additional wire. Similarly, in the case of the B reader, be sure to link the SIG1B and DISB terminals.
- For the CA-64 DR expander to operate with the DALLAS readers, the DIP-switch No. 8 must be set in ON position.

4. Specifications

Maximum current consumption	25 mA
Working temperature range	-25...+55 °C
Maximum humidity.....	93±3%
Mounting hole diameter	20 mm
Weight	24 g

The declaration of conformity may be consulted at www.satel.eu/ce

SATEL sp. z o.o.
ul. Schuberta 79
80-172 Gdańsk
POLAND
tel. + 48 58 320 94 00
info@satel.pl
www.satel.eu