
AL-500-00 DALI input module, 4 channel

DALI-interface for 4 potential free contacts

Part nr.: 12002

Interfaces:

1x DALI (V1), 4x digital input (potential free closing contacts)



DALI

The **AL-500-00 DALI input module 4CH** is an universal device to read the status of up to 4 potential free closing contacts via a DALI (V1) line. The module is powered by the DALI bus with nom. 16V DC.

Data from the AL-500-00 can be easily interpreted using an **AL-511-00 IP-DALI-BRIDGE V2**, part nr. 11991.

Using the rotary switch RS1 of the AL-500-00, up to 10 modules can be used on a single DALI line.

Technical data

Interfaces

Type	DALI Slave
Number	1
Supply current	Typ. 4,1 mA
Supply voltage	Typ. 16V DC (+/- 5%)
Galvanic isol.	No

Type	Digital input
Number	4

User interfaces

Button S1	Not used
Service LED	Green = DALI supply ok, flashes in case of DALI communication
Rotary switch RS1	s. table below
Rotary switch RS2	s. table below

Housing / connectors

Connectors	5 wires, length approx. 18,5 cm
Housing	UL-V0, hellgrau

Power supply

Supply voltage	DALI
Supply current	Approx. 4,1 mA

Environmental conditions

Operating temp.	0°..+50°C
Storage temp.	-20°..+70°C
Humidity	10..95% rel. Humidity, non condensing
Protection class	IP20

Dimensions and weight

Weight	Approx. 110g
Dimensions	Approx. 44 x 33 x 12 mm without wires

Standards / approvals

CE	ROHS 3 directive 2011/65/EU + Annex 2015/863/EU Low voltage directive 2014/35/EU
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Short description

Power supply

The **AL-500-00 DALI input module 4CH** is supplied by the DALI bus. The supply current is typ. 4,1 mA.

DALI Slave

The **AL-500-00 DALI input module 4CH** communicates with an AL-511-00 IP-DALI-BRIDGE V2, part nr. 11991, via DALI bus.

Push button S1

This button has actually no function.

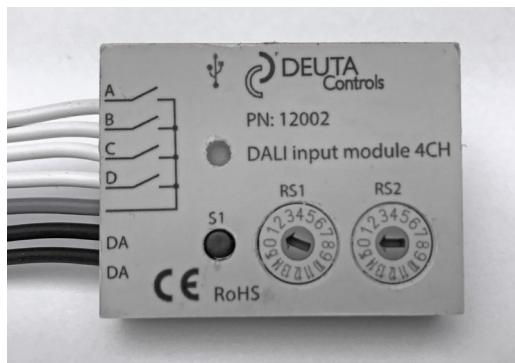
Status LED

The status LED is steady green when the DALI supply voltage is ok. In case of DALI communication, the LED flashes for a short moment.

Rotary switches RS1 and RS2

The module provides 4 inputs for potential free closing contacts. Depending on the position of the two rotary switches, the input status (0/1) will be mapped to different register addresses in the MODBUS input data process image.

Any not-listed combination of RS1 and RS2 will send a DALI BROADCAST ON / OFF message whenever a contact is closed / opened.



HOLDING-Reg., Generic Modbus (0- based)	HOLDING-Reg., Modicon Modbus (1-based)	Rotary switch RS 1	Input	r/w	Values
400100	400101	1	A	r	0/1
400101	400102	1	B	r	0/1
400102	400103	1	C	r	0/1
400103	400104	1	D	r	0/1
400104	400105	2	A	r	0/1
400105	400106	2	B	r	0/1
400106	400107	2	C	r	0/1
400107	400108	2	D	r	0/1
400108	400109	3	A	r	0/1
400109	400110	3	B	r	0/1
400110	400111	3	C	r	0/1
400111	400112	3	D	r	0/1
400112	400113	4	A	r	0/1
400113	400114	4	B	r	0/1
400114	400115	4	C	r	0/1
400115	400116	4	D	r	0/1
400116	400117	5	A	r	0/1
400117	400118	5	B	r	0/1
400118	400119	5	C	r	0/1
400119	400120	5	D	r	0/1
400120	400121	6	A	r	0/1
400121	400122	6	B	r	0/1
400122	400123	6	C	r	0/1
400123	400124	6	D	r	0/1
400124	400125	7	A	r	0/1
400125	400126	7	B	r	0/1
400126	400127	7	C	r	0/1
400127	400128	7	D	r	0/1
400128	400129	8	A	r	0/1
400129	400130	8	B	r	0/1
400130	400131	8	C	r	0/1
400131	400132	8	D	r	0/1
400132	400133	9	A	r	0/1
400133	400134	9	B	r	0/1
400134	400135	9	C	r	0/1
400135	400136	9	D	r	0/1
400136	400137	10	A	r	0/1

Ordering information

Part name	Part number	Part description
AL-500-00 DALI input module 4CH	12002	DALI input module, 4 channel, for pot.-free closing contacts, common supply voltage, pre-configured to be used with AL-511-00 IP-DALI-BRIDGE V2 (up to 10 devices can be used , address offset setup using local rotary switch) Holding-Reg. (MODBUS 1-based), (0 = OFF, 1 = ON): A: 400101 (+ offset rot. switch) B: 400102 (+ offset rot. switch) C: 400103 (+ offset rot. switch) D: 400104 (+ offset rot. switch) power supply: DALI-Bus, typ. supply current: 4.1 mA; operating temp.: 0°..50°C, IP20, approx. 44 x 33 x 12 mm;

EU Declaration of Conformity

Hereby the DEUTA Controls GmbH declares that the device **AL-500-00 DALI input module 4CH** is compliant with the relevant rules and limits according to the actual EU directives and standards. You can download the complete EU Declaration of conformity as a pdf document on our homepage www.deuta-controls.de in the area Service/Downloads (Doc. EUDC2018_136).

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