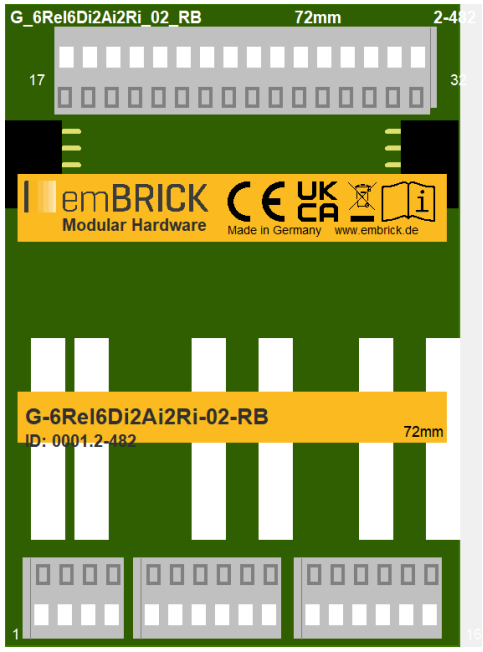
CAE_G-6Rel6Di2Ai2Ri-02-RB

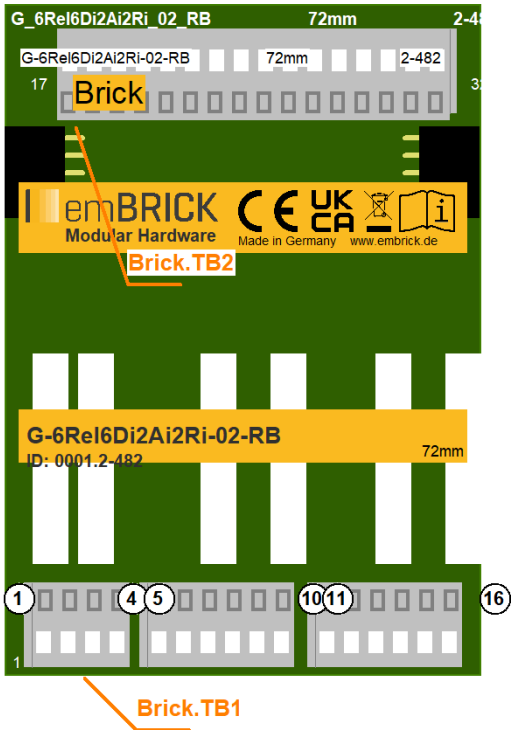


1.1 Description

ID: 2-482
Order No.: CAE_G-6Rel6Di2Ai6Ri-02 RB
Terminal: push-in (for < 0.5mmÂ²)
Size: 72mm x 90 (96) mm
BBFCP: 2-1-1
Weight: 150g

This brick offers an I/O-mix of 6 relays, 6 digital inputs, 2 voltage (10V) inputs and 2 resistor inputs. It is enclosed in a rail box.

1.2 Connectors and Indication-/Operation-Elements



1.2.1 Connectors (X)

Hereinafter the necessary connections, connectors and there specification for operation are listed. The location of a specific connector is documented with the ID (left coloumn) in the previous Illustrations.

ID	Model	Usage	Num. of term.	Model / Series	connection	elec. usage
Brick.X01	Flachstecker	ground connenction	1	6,3x0,8mm liegend	min. 1,5mm²	aux. ground

1.2.2 Terminal block (TB)

The following Illustration the technical details for Terminal blocks are listed. The location of a specific block is documented with the ID (left coloumn) in the preavious Illustrations.

ID	Model	Model / Series	Grid	Num. of term.	connection	elec. usage
Brick.TB1	Cage Terminal	WAGO250	3.5mm	16	up to 1.5mm²	signal level
Brick.TB2	Cage Terminal	WAGO250	3.5mm	16	up to 1.5mm²	signal level

1.2.3 Terminal assignment

Here the assignment of individual terminals and there affilation to terminal blocks (Te block), terminal numbers (Te no.) and short description (T.desc.) aswell as there electrical function and usage are explained.
The associated mechanical and electrical properties are stated with the specific terminal block in the previous chapter. The position of a terminal is dedicated through the "Te block" and the actual terminal number (Te no.) or the therminal description (T.descr.) in the previous Illustration respectivly.
In the coloumn "usage" the technical-/ device-functional use is listed.

Te block	Te no.	T. descr.	Function	Usage
Brick.TB00	0	NC	Relay, normally close contact, isolated	Rel1
Brick.TB00	1	C	Relay, change over contact, isolated	Rel1
Brick.TB00	2	NO	Relay, normally open contact, isolated	Rel1
Brick.TB00	3	NC	Relay, normally close contact, isolated	Rel2
Brick.TB00	4	C	Relay, change over contact, isolated	Rel2
Brick.TB00	5	NO	Relay, normally open contact, isolated	Rel2
Brick.TB00	6	NC	Relay, normally close contact, isolated	Rel3
Brick.TB00	7	C	Relay, change over contact, isolated	Rel3
Brick.TB00	8	NO	Relay, normally open contact, isolated	Rel3
Brick.TB00	9	NC	Relay, normally close contact, isolated	Rel4
Brick.TB00	10	C	Relay, change over contact, isolated	Rel4
Brick.TB00	11	NO	Relay, normally open contact, isolated	Rel4
Brick.TB00	12	NC	Relay, normally close contact, isolated	Rel5
Brick.TB00	13	C	Relay, change over contact, isolated	Rel5
Brick.TB00	14	NO	Relay, normally open contact, isolated	Rel5
Brick.TB00	15	NC	Relay, normally close contact, isolated	Rel6
Brick.TB00	16	C	Relay, change over contact, isolated	Rel6
Brick.TB00	17	NO	Relay, normally open contact, isolated	Rel6
Brick.TB00	18	IN	Switching Input, ext.contact	Di1
Brick.TB00	19	0V	Ground	Di1
Brick.TB00	20	IN	Switching Input, ext.contact	Di2
Brick.TB00	21	0V	Ground	Di2
Brick.TB00	22	IN	Switching Input, ext.contact	Di3
Brick.TB00	23	0V	Ground	Di3
Brick.TB00	24	IN	Switching Input, ext.contact	Di4
Brick.TB00	25	0V	Ground	Di4
Brick.TB00	26	IN	Switching Input, ext.contact	Di5
Brick.TB00	27	0V	Ground	Di5
Brick.TB00	28	IN	Switching Input, ext.contact	Di6
Brick.TB00	29	0V	Ground	Di6
Brick.TB00	30	24V	Sensor supply +24V	Ai1
Brick.TB00	31	IN	Input	Ai1
Brick.TB00	32	0V	Ground	Ai1
Brick.TB00	33	24V	Sensor supply +24V	Ai2
Brick.TB00	34	IN	Input	Ai2
Brick.TB00	35	0V	Ground	Ai2
Brick.TB00	36	RiIn	Input resistor	Ri1
Brick.TB00	37	0V	Ground	Ri1
Brick.TB00	38	RiIn	Input resistor	Ri2

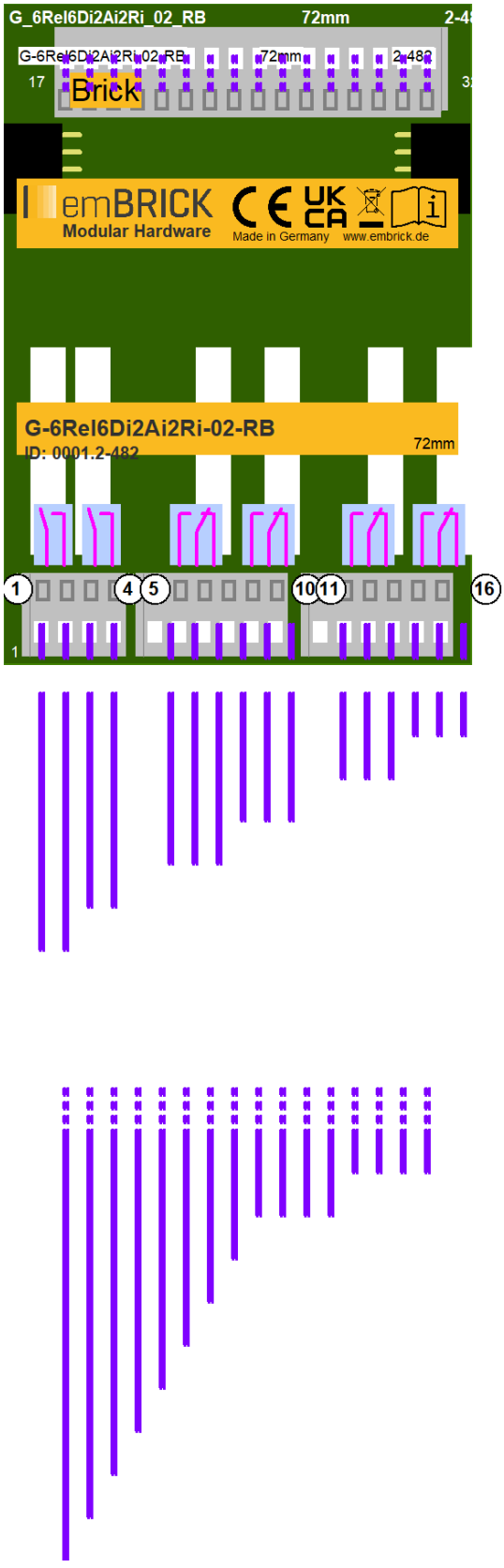
Brick.TB00	39	0V	Ground	Ri2

1.2.4 LED Indications

ID	Type	Specification	Type / Usage
Brick.StateLED	SMD-LED	yellow	communicationstate Brick

1.3 Input-/Output Scheme

The following diagram shows the adaption of the control unit. To avoid overlapping, some wires are displayed interrupted and dashed.



1.4 Technical Data

1.4.1 Digital Inputs

The control unit has the following digital inputs / switch inputs:

Identifier	Di1
Type	Digital input
Low Volt.	< 5V
High Volt.	> 15V
Input Current	< 5mA @ 24V
Component	-
Remark	

Identifier	Di2
Type	Digital input
Low Volt.	< 5V
High Volt.	> 15V
Input Current	< 5mA @ 24V
Component	-
Remark	

Identifier	Di3
Type	Digital input
Low Volt.	< 5V
High Volt.	> 15V
Input Current	< 5mA @ 24V
Component	-
Remark	

Identifier	Di4
Type	Digital input
Low Volt.	< 5V
High Volt.	> 15V
Input Current	< 5mA @ 24V
Component	-
Remark	

Identifier	Di5
Type	Digital input
Low Volt.	< 5V
High Volt.	> 15V
Input Current	< 5mA @ 24V
Component	-
Remark	

Identifier	Di6
Type	Digital input
Low Volt.	< 5V

High Volt.	> 15V
Input Current	< 5mA @ 24V
Component	-
Remark	

1.4.2 Digital Outputs

The control unit has the following digital outputs / switching outputs:

Identifier	Rel1
Type	Relay, change over contact, isolated
max. Switching Volt.	250V AC
max. Switching Cur.	5A AC, Contact 6A
max. Perm. Current	3A AC
nom. Cycles	see datasheet
Component	FTR, LYCA024V
Remark	-

Identifier	Rel2
Type	Relay, change over contact, isolated
max. Switching Volt.	250V AC
max. Switching Cur.	5A AC, Contact 6A
max. Perm. Current	3A AC
nom. Cycles	see datasheet
Component	FTR, LYCA024V
Remark	-

Identifier	Rel3
Type	Relay, change over contact, isolated
max. Switching Volt.	250V AC
max. Switching Cur.	5A AC, Contact 6A
max. Perm. Current	3A AC
nom. Cycles	see datasheet
Component	FTR, LYCA024V
Remark	-

Identifier	Rel4
Type	Relay, change over contact, isolated
max. Switching Volt.	250V AC
max. Switching Cur.	5A AC, Contact 6A
max. Perm. Current	3A AC
nom. Cycles	see datasheet
Component	FTR, LYCA024V
Remark	-

Identifier	Rel5

Type	Relay, change over contact, isolated
max. Switching Volt.	250V AC
max. Switching Cur.	5A AC, Contact 6A
max. Perm. Current	3A AC
nom. Cycles	see datasheet
Component	FTR, LYCA024V
Remark	-

Identifier	Rel6
Type	Relay, change over contact, isolated
max. Switching Volt.	250V AC
max. Switching Cur.	5A AC, Contact 6A
max. Perm. Current	3A AC
nom. Cycles	see datasheet
Component	FTR, LYCA024V
Remark	-

1.4.3 Analog Inputs

The control unit has the following analogue inputs / measuring inputs:

Identifier	Ai1
Type	Voltage Input
Range	0 ... 10V
Input/Load Resistor	>50k
Resolution	
Accuracy	0.5%
Linearity	0.2%
Filter	100Hz
Linearization	
Model / Series	
Remark	Sensor power supply (24V) is provided; note overall capacity

Identifier	Ai2
Type	Voltage Input
Range	0 ... 10V
Input/Load Resistor	>50k
Resolution	
Accuracy	0.5%
Linearity	0.2%
Filter	100Hz
Linearization	
Model / Series	
Remark	Sensor power supply (24V) is provided; note overall capacity

Identifier	Ri1

Type	Resistorinput 10 .. 10kOhm
Range	10 ... 10kOhm
Input/Load Resistor	-
Resolution	0.1%
Accuracy	2%
Linearity	1%
Filter	Tau = 1s
Linearization	-
Model / Series	Drahtschleife
Remark	4k7 intern verfügbar

Identifier	Ri2
Type	Resistorinput 10 .. 10kOhm
Range	10 ... 10kOhm
Input/Load Resistor	-
Resolution	0.1%
Accuracy	2%
Linearity	1%
Filter	Tau = 1s
Linearization	-
Model / Series	Drahtschleife
Remark	4k7 intern verfügbar

1.4.4 User Notes

• Blinking behavior StateLED:
Each Morse code is 3 seconds long!
not initialized = flashing continuously at approx. 5Hz
no communication = short-long-short
too little communication = short-short-short
disturbed communication = short-long-long
OK = continuous flashing at approx. 1Hz (0.6-1.5Hz)

1.5 History

On the following page you will find a list of changes that have been made to the product.

1.5.1 History

Date	Entry scope (HW, SWappl, SWapi, Release)	Entry type (enhancement, improvement, bugfix, release)	Version	Status (development, implemented, tested)	Responsible	Reason for the modification	Items of modification	Impact for (end-)customer	Comment	Location in model/source
xxxx-xx-xx		Release	0.99	Tested	NSt					

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