

## Contents

1	About this document	1
2	Safety	1
3	Product description	1
4	Mounting	2
5	Disassembly and disposal	4

## 1 About this document

### 1.1 Contents and purpose

This document describes the mounting of the SIO-DR module.

### 1.2 Target group


This document is intended for assembling technicians and specialists authorized for mounting by dormakaba.


### 1.3 Other applicable documents

- Instructions for devices intended for networking

### 1.4 Symbols used

  Sequence of action steps

 Reference to a chapter

 Components may be damaged by electrostatic discharge. Ground your own body before touching a component!

## 2 Safety

### 2.1 Intended use

The SIO-DR module is used to connect analog switch contacts to the dormakaba system bus. Messages are output via contacts or control signals are read in.

### 2.2 Personnel qualification

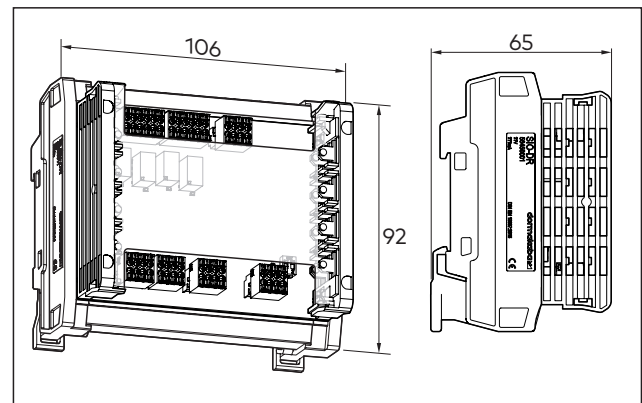
Mounting may only be carried out by persons authorized by dormakaba.

## 3 Product description

The SIO-DR module is a DCW® component. Status messages are output potential-free via relays. Control signals are read in via optocouplers.

The mounting takes place on a 35 mm DIN rail in a housing. The housing must at least meet the requirements of IP 30.

### 3.1 Parts included



# SIO-DR

Mounting instructions

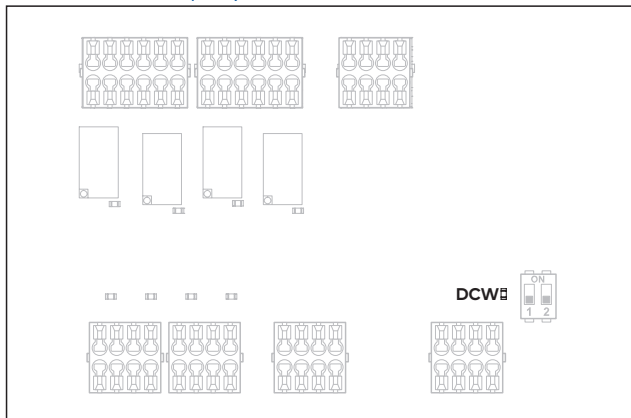
WN 059731 45532 – 2019-04

EN

### Technical information

Supply voltage:	24 V DC +/- 15 %
Power consumption:	
- Quiescent current:	7 mA
- Relay	Relay 1 active 18 mA
For each active relay, the current consumption increases by approx. 11 mA	Relay 1+2 active 29 mA Relay 1+2+3 active 40 mA Relay 1+2+3+4 active 51 mA
Ambient temperature:	-10 °C to +55 °C
Rel. humidity:	up to 93 % (non condensing)
Protection class:	dependent on the housing used
Inputs In 1 to In 4 (optocoupler)	Current consumption of inputs per input: at 5 V AC/DC: 3 mA at 12 V AC/DC: 8 mA at 24 V AC/DC: 17 mA at 28 V AC/DC: 28 mA
Contact load capacity:	24 V, 1 A current carrying capacity

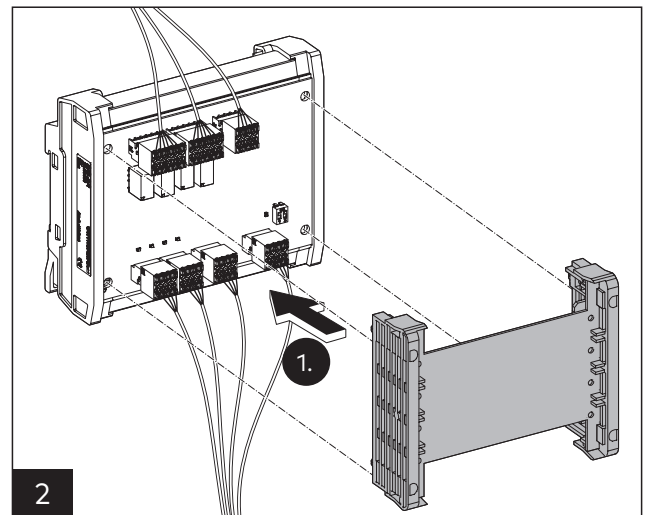
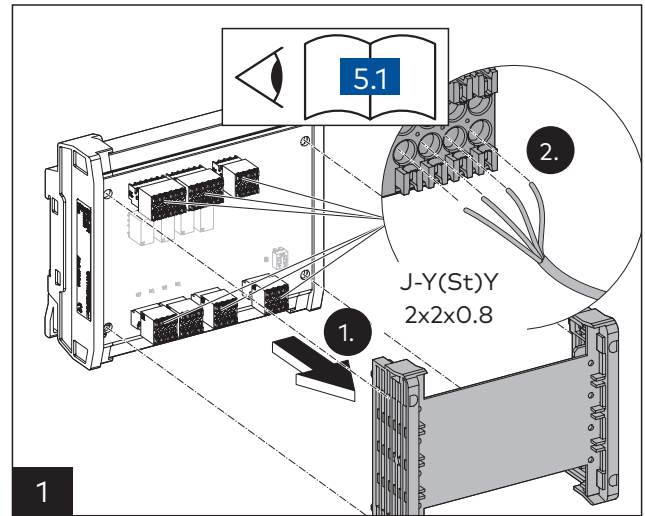
### 3.2 LED displays



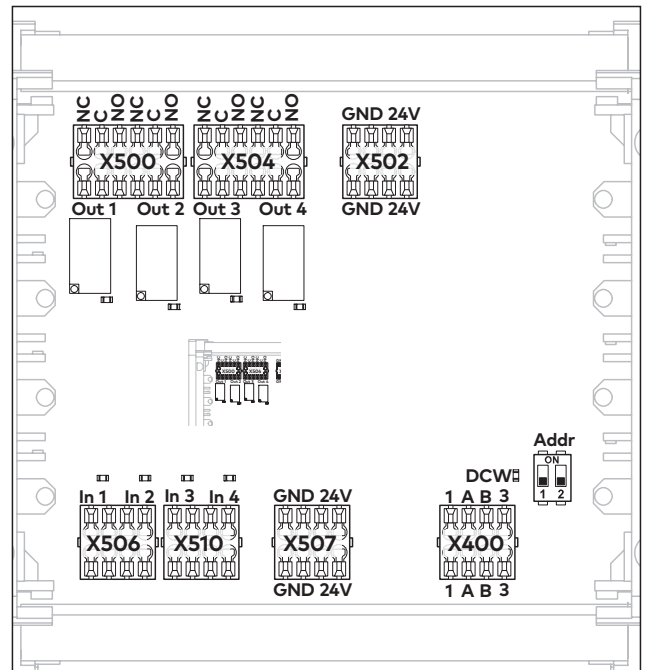
LED on ———	LED off ———	LED flashes - - - -
Bus connection OK	—————	
Power supply or DCW® bus connection disturbed	—————	
Bus connection interrupted (not Safe DCW® node)	- - - - -	

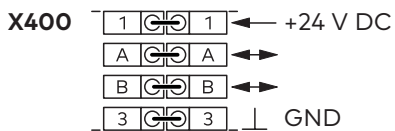
## 4 Mounting

### 4.1 Mount the SIO-DR

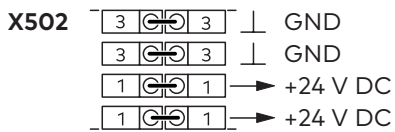


### 4.2 Assignment of terminals and switches

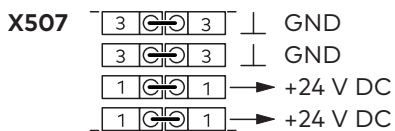




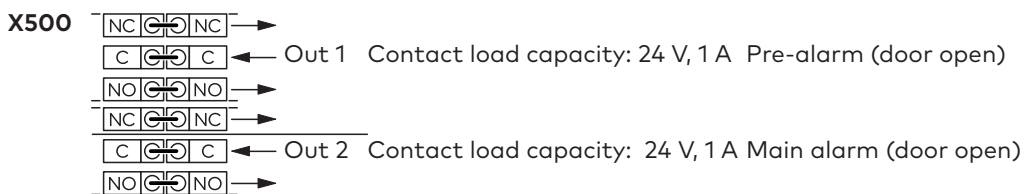
DCW® bus



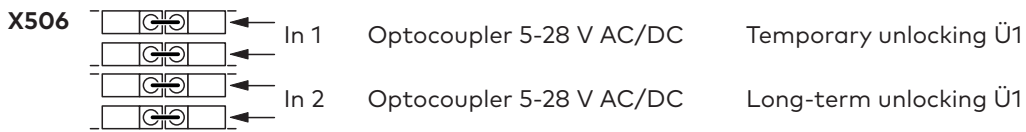
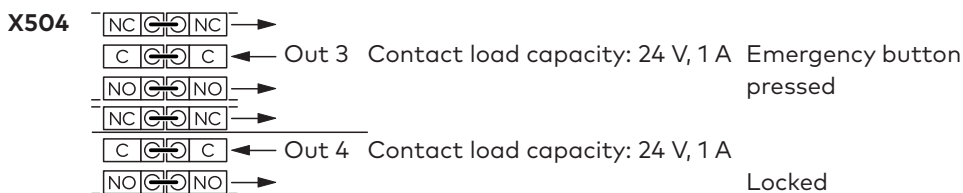
Output for external loads  
 (max. 1A, depending on the power supply)



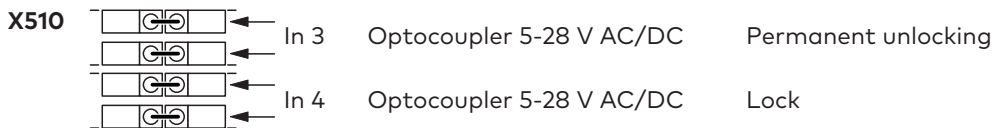
Output for external loads  
 (max. 1A, depending on the power supply)



Parameterizable via TMS Soft®. For multi-door systems Out 1 to Out 4 are assigned to the corresponding door addresses 1 to 4.



Parameterizable via TMS Soft®. In multi-door systems In 1 to In 4 are assigned to the corresponding door addresses 1 to 4.



Address	Switch	<b>DCW® DIP switch</b>
1	0 0	If several SIO-DR modules are connected via the DCW® bus, assign different DCW® bus addresses to the SIO-DR modules.
2	1 0	
3	0 1	
4	1 1	

## 5 Disassembly and disposal

Disassembly is carried out in the reverse order of mounting and must be carried out by qualified personnel.



The product must be disposed of in an environmentally friendly manner. Electro-technical parts and batteries must not be disposed of as domestic waste. Dispose of electrotechnical parts and batteries in the designated acceptance and collection points. Refer to the statutory regulations for your country.