MANUAL

...feel the spirit of a new generation

RESI-UI-BR-MODBUS

Our manual control and monitor modules and our bridge modules

Great care has been taken in the creation of the text, illustrations and program examples in this manual. The editors and publishers accept no responsibility for any inadvertent omission of entries or for typographical or other errors herON. Nor can they be held responsible or liable for consequences arising from any errors herein.

1 History

Date	Editor	Description
09.01.16	DI HC SIGL, MSc	First version
19.03.16	DI HC SIGL, MSc	Some new modules added

2 Content

3 IMPORTANT SECURITY NOTES

Danger to life through electrical current!
Only skilled personal trained in electro-engineering should perform the described steps in the following chapters. Please observe the country specific rules and standards. Do not perform any electrical work while the device is connected to power.

Pay attention to the following rules:

1. Disconnect the system from power
2. Secure the system against automatic power on
3. Check that the system is de-energized
4. Cover other energized parts of the system

IMPORTANT HINT: Before you start with the installation and the initial setup of the device, you have to read this document and the attached installation guide and the actual manual for the device very carefully. You have to follow all the herein given information very accurate!

- ❑ Only authorized and qualified personnel are allowed to install and setup the device!
- ❑ The connection of the device must be done in de-energized state!
- ❑ Do not perform any electrical work while the device is connected to power!
- ❑ Disable and secure the system against any automatic restart or power on procedure!
- ❑ The device must be operated with the defined voltage level!
- ❑ Supply voltage jitters must not exceed the technical specifications and tolerances given in the technical manuals for the product. If you do not obey this issue, the proper performance of the device cannot be guaranteed. This can lead to fail functions of the device and in worst case to a complete breakdown of the device!
- ❑ You have to obey the current EMC regulations for wiring!
- ❑ All signal, control and supply voltage cables must be wired in a way, that no inductive or capacitive interference or any other severe electrical noise disturbance may interfere with the device. Wrong wiring can lead to a malfunction of the device!
- ❑ For signal or sensor cables you have to use shielded cables, to avoid damages through induction!
- ❑ You have to obey and to apply the current safety regulations given by the ÖVE, VDE, the countries, their control authorities, the TÜV or the local energy supply company!
- ❑ Obey country-specific laws and standards!
- ❑ The device must be used for the intended purpose of the manufacturer!
- ❑ No warranties or liabilities will be accepted for defects and damages resulting from improper or incorrect usage of the device!
- ❑ Subsequent damages, which results from faults of this device, are excluded from warranty and liability!
- ❑ Only the technical data, wiring diagrams and operation instructions, which are part to the product shipment are valid!
- ❑ The information on our homepage, in our datasheets, in our manuals, in our catalogues or published by our partners can deviate from the product documentation and is not necessarily always actual, due to constant improvement of our products for technical progress!
- ❑ In case of modification of our devices made by the user, all warranty and liability claims are lost!
- ❑ The installation has to fulfill the technical conditions and specifications (e.g. operating temperatures, power supply …) given in the devices documentation!
- ❑ Operating our device close to equipment, which do not comply with EMC directives, can influence the functionality of our device, leading to malfunction or in worst case to a breakdown of our device!

- Our devices must not be used for monitoring applications, which solely serve the purpose of protecting persons against hazards or injury, or as an emergency stop switch for systems or machinery, or for any other similar safety-relevant purposes!
- Dimensions of the enclosures or enclosures accessories may show slight tolerances on the specifications provided in these instructions!
- Modifications of this documentation is not allowed!
- In case of a complaint, only complete devices returned in original packing will be accepted!

4 RESI manual control and signal modules

4.1 Signal module RESI-UI-4L-RD with 4 LEDs in RED

This module offers the following features:

- 4 LEDs for 24Vdc signals in RED (Each LED consumes 24Vdc, max 20mA)
- Each LED is internally cabled to a removable 2pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

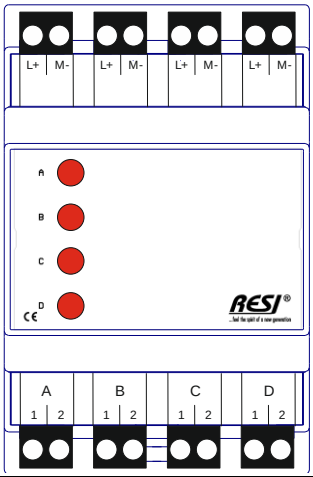


Illustration: Our signal module RESI-UI-4L-RD

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	140g
		Mounting	On DIN EN50022 rail or wall mounting
LED Clamps A, B, C, D			
Number of LEDs	4		
LED color	RED		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	For each LED 1 removable 2pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	140 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

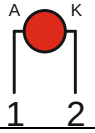
CLAMPS	**RESI-UI-4L-RD**
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
LEDA CLAMP A 1 2	Terminal block for LED A: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
LEDB CLAMP B 1 2	Terminal block for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)
LEDC CLAMP C 1 2	Terminal block for LED C: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)
LEDD CLAMP D 1 2	Terminal block for LED D: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)

Table: Clamps

4.2 Signal module RESI-UI-4L-YE with 4 LEDs in YELLOW

This module offers the following features:

- 4 LEDs for 24Vdc signals in YELLOW (Each LED consumes 24Vdc, max 20mA)
- Each LED is internally cabled to a removable 2pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

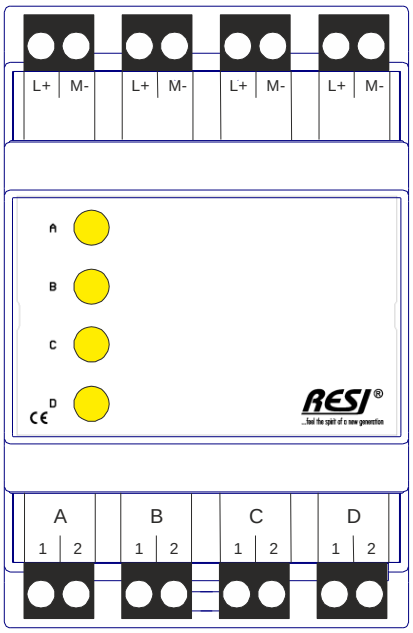


Illustration: Our signal module RESI-UI-4L-YE

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	140g
		Mounting	On DIN EN50022 rail or wall mounting
LED Clamps A, B, C, D			
Number of LEDs	4		
LED color	YELLOW		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	For each LED 1 removable 2pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	140 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

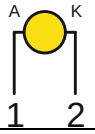
CLAMPS	**RESI-UI-4L-YE**
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
LEDA CLAMP A 1 2	Terminal block for LED A: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
LEDB CLAMP B 1 2	Terminal block for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)
LEDC CLAMP C 1 2	Terminal block for LED C: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)
LEDD CLAMP D 1 2	Terminal block for LED D: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)

Table: Clamps

4.3 Signal module RESI-UI-4L-GN with 4 LEDs in GREEN

This module offers the following features:

- 4 LEDs for 24Vdc signals in GREEN (Each LED consumes 24Vdc, max 20mA)
- Each LED is internally cabled to a removable 2pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

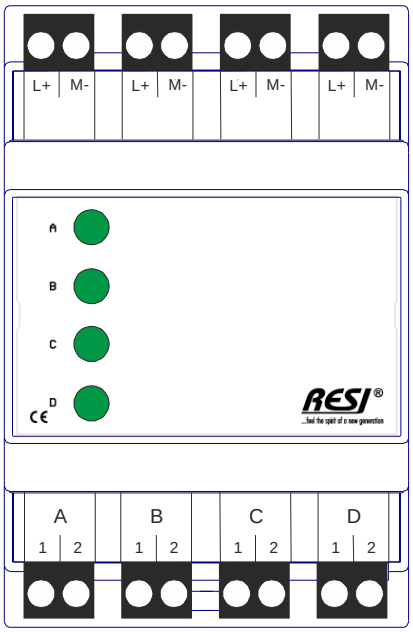


Illustration: Our signal module RESI-UI-4L-GN

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	140g
		Mounting	On DIN EN50022 rail or wall mounting
LED Clamps A, B, C, D			
Number of LEDs	4		
LED color	GREEN		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	For each LED 1 removable 2pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	140 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

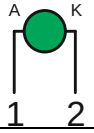
CLAMPS	**RESI-UI-4L-GN**
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
LEDA CLAMP A 1 2	Terminal block for LED A: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
LEDB CLAMP B 1 2	Terminal block for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)
LEDC CLAMP C 1 2	Terminal block for LED C: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)
LEDD CLAMP D 1 2	Terminal block for LED D: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)

Table: Clamps

4.4 Signal module RESI-UI-4L-BL with 4 LEDs in BLUE

This module offers the following features:

- 4 LEDs for 24Vdc signals in BLUE (Each LED consumes 24Vdc, max 20mA)
- Each LED is internally cabled to a removable 2pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

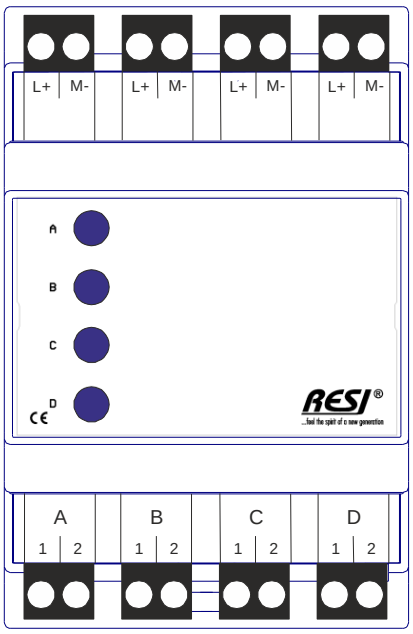


Illustration: Our signal module RESI-UI-4L-BL

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	140g
		Mounting	On DIN EN50022 rail or wall mounting
LED Clamps A, B, C, D			
Number of LEDs	4		
LED color	BLUE		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	For each LED 1 removable 2pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	140 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

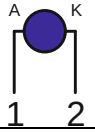
CLAMPS	**RESI-UI-4L-BL**
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
LEDA CLAMP A 1 2	Terminal block for LED A: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
LEDB CLAMP B 1 2	Terminal block for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)
LEDC CLAMP C 1 2	Terminal block for LED C: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)
LEDD CLAMP D 1 2	Terminal block for LED D: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)

Table: Clamps

4.5 Signal module RESI-UI-4L-WT with 4 LEDs in WHITE

This module offers the following features:

- 4 LEDs for 24Vdc signals in WHITE (Each LED consumes 24Vdc, max 20mA)
- Each LED is internally cabled to a removable 2pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

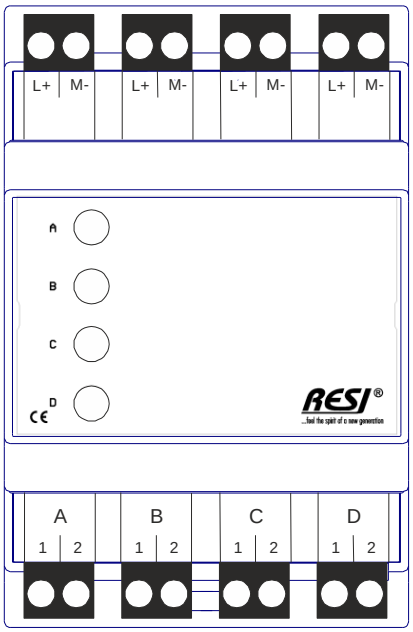


Illustration: Our signal module RESI-UI-4L-WT

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	140g
		Mounting	On DIN EN50022 rail or wall mounting
LED Clamps A, B, C, D			
Number of LEDs	4		
LED color	WHITE		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	For each LED 1 removable 2pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	140 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

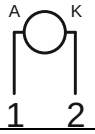
CLAMPS	**RESI-UI-4L-WT**
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
LEDA CLAMP A 1 2	Terminal block for LED A: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
LEDB CLAMP B 1 2	Terminal block for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)
LEDC CLAMP C 1 2	Terminal block for LED C: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)
LEDD CLAMP D 1 2	Terminal block for LED D: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode)

Table: Clamps

4.6 Control module RESI-UI-4SW with 4 switches LEFT-CENTER-RIGHT

This control module offers the following features:

- 4 switches with three positions: LEFT-CENTER-RIGHT
- Contact rating of each switch: with resistive load: max 2A@250Vac, max 5A@120Vac, max 5A@28Vdc
- Removable 18 pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

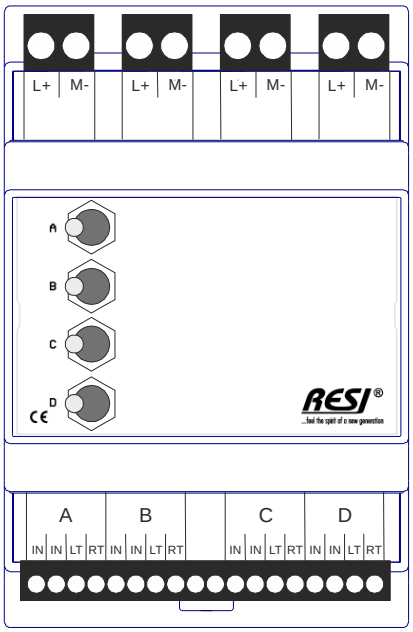


Illustration: Our control module RESI-UI-4SW

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	160g
		Mounting	On DIN EN50022 rail or wall mounting
Switches A, B, C, D			
Number of switches	4		
Switch positions	LEFT-CENTER-RIGHT		
Voltage for switch	max 250Vac max 28Vdc		
Current for switch	With resistive load max 2A@250Vac max 5A@120Vac max 5A@28Vdc All 4 switches must be connected to the same voltage level. Mixing of voltage levels is forbidden (e.g. SWITCH A with 24Vdc and SWITCH B with 250Vac)		
Clamps	1 removable 18 pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	160 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

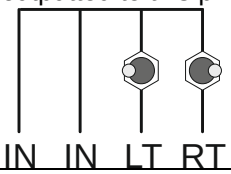
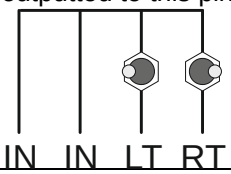
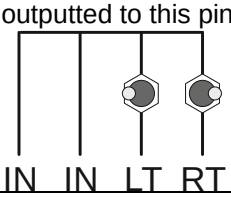
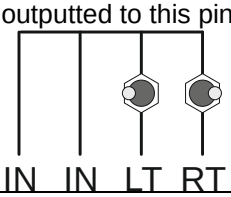
CLAMPS	RESI-UI-4SW
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
SWITCH A IN IN LT RT	Clamps for SWITCH A: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
SWITCH B IN IN LT RT	Clamps for SWITCH B: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
SWITCH C IN IN LT RT	Clamps for SWITCH C: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
SWITCH D IN IN LT RT	Clamps for SWITCH D: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 

Table: Clamps

4.7 Control and signal module RESI-UI-2SW2L-RD with 2 switches LEFT-CENTER-RIGHT and 2 LEDs in RED

This control module offers the following features:

- 2 switches with three positions: LEFT-CENTER-RIGHT
- Contact rating of each switch: with resistive load: max 2A@250Vac, max 5A@120Vac, max 5A@28Vdc
- 2 LEDs for 24Vdc signals in RED (Each LED consumes 24Vdc, 20mA)
- Removable 18 pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

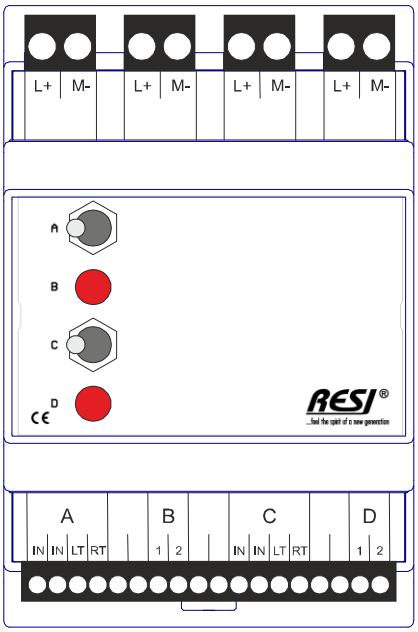


Illustration: Our control and signal module RESI-UI-2SW2L-RD

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	160g
		Mounting	On DIN EN50022 rail or wall mounting
Switches A, C			
Number of switches	2		
Switch positions	LEFT-CENTER-RIGHT		
Voltage for switch	max 250Vac max 28Vdc		
Current for switch	With resistive load max 2A@250Vac max 5A@120Vac max 5A@28Vdc		
Clamps	1 removable 18 pin terminal block in black		
LED B, D			
Number of LEDs	2		
LED color	RED		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	1 removable 18 pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	160 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

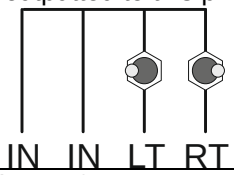
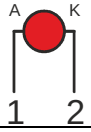
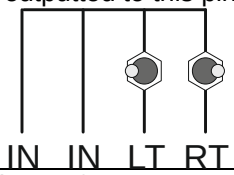
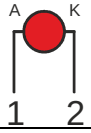
CLAMPS	RESI-UI-2SW2L-RD
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
SWITCH A IN IN LT RT	Clamps for SWITCH A: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
LED B 1 2	Clamps for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
SWITCH C IN IN LT RT	Clamps for SWITCH C: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
LED D 1 2	Clamps for LED D: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 

Table: Clamps

4.8 Control and signal module RESI-UI-2SW2L-YE with 2 switches LEFT-CENTER-RIGHT and 2 LEDs in YELLOW

This control module offers the following features:

- 2 switches with three positions: LEFT-CENTER-RIGHT
- Contact rating of each switch: with resistive load: max 2A@250Vac, max 5A@120Vac, max 5A@28Vdc
- 2 LEDs for 24Vdc signals in YELLOW (Each LED consumes 24Vdc, 20mA)
- Removable 18 pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

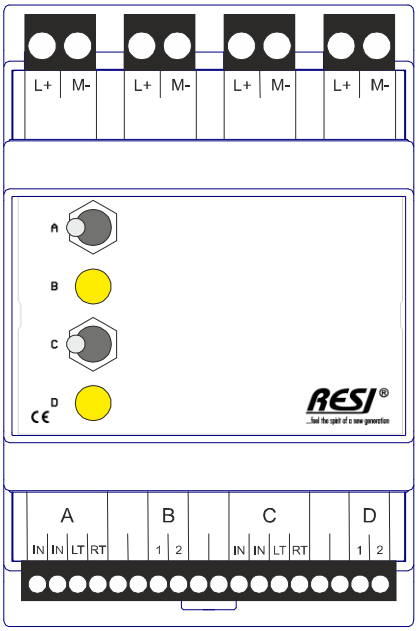


Illustration: Our control and signal module RESI-UI-2SW2L-YE

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	160g
		Mounting	On DIN EN50022 rail or wall mounting
Switches A, C			
Number of switches	2		
Switch positions	LEFT-CENTER-RIGHT		
Voltage for switch	max 250Vac max 28Vdc		
Current for switch	With resistive load max 2A@250Vac max 5A@120Vac max 5A@28Vdc		
Clamps	1 removable 18 pin terminal block in black		
LED B, D			
Number of LEDs	2		
LED color	YELLOW		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	1 removable 18 pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	160 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

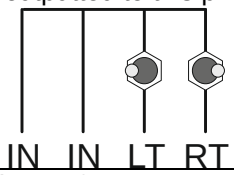
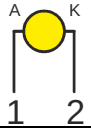
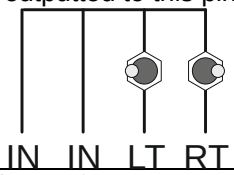
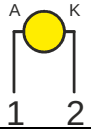
CLAMPS	RESI-UI-2SW2L-YE
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
SWITCH A IN IN LT RT	Clamps for SWITCH A: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
LED B 1 2	Clamps for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
SWITCH C IN IN LT RT	Clamps for SWITCH C: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
LED D 1 2	Clamps for LED D: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 

Table: Clamps

4.9 Control and signal module RESI-UI-2SW2L-GN with 2 switches LEFT-CENTER-RIGHT and 2 LEDs in GREEN

This control module offers the following features:

- 2 switches with three positions: LEFT-CENTER-RIGHT
- Contact rating of each switch: with resistive load: max 2A@250Vac, max 5A@120Vac, max 5A@28Vdc
- 2 LEDs for 24Vdc signals in GREEN (Each LED consumes 24Vdc, 20mA)
- Removable 18 pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

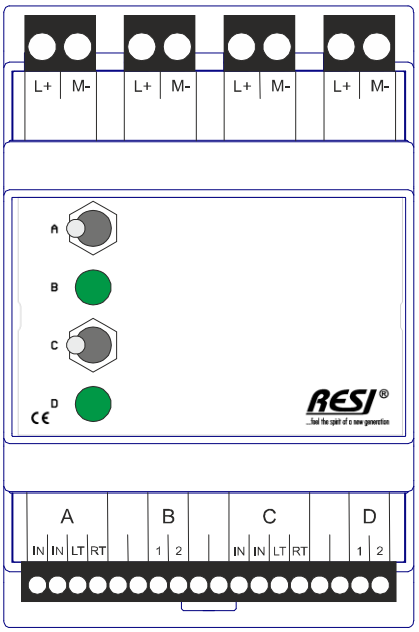


Illustration: Our control and signal module RESI-UI-2SW2L-GN

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	160g
		Mounting	On DIN EN50022 rail or wall mounting
Switches A, C			
Number of switches	2		
Switch positions	LEFT-CENTER-RIGHT		
Voltage for switch	max 250Vac max 28Vdc		
Current for switch	With resistive load max 2A@250Vac max 5A@120Vac max 5A@28Vdc		
Clamps	1 removable 18 pin terminal block in black		
LED B, D			
Number of LEDs	2		
LED color	GREEN		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	1 removable 18 pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	160 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

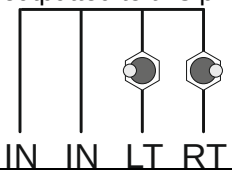
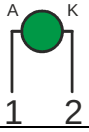
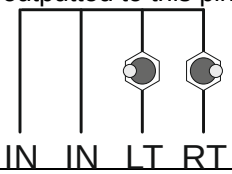
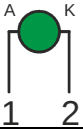
CLAMPS	RESI-UI-2SW2L-GN
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
SWITCH A IN IN LT RT	Clamps for SWITCH A: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
LED B 1 2	Clamps for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
SWITCH C IN IN LT RT	Clamps for SWITCH C: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
LED D 1 2	Clamps for LED D: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 

Table: Clamps

4.10 Control and signal module RESI-UI-2SW2L-BL with 2 switches LEFT-CENTER-RIGHT and 2 LEDs in BLUE

This control module offers the following features:

- 2 switches with three positions: LEFT-CENTER-RIGHT
- Contact rating of each switch: with resistive load: max 2A@250Vac, max 5A@120Vac, max 5A@28Vdc
- 2 LEDs for 24Vdc signals in BLUE (Each LED consumes 24Vdc, 20mA)
- Removable 18 pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

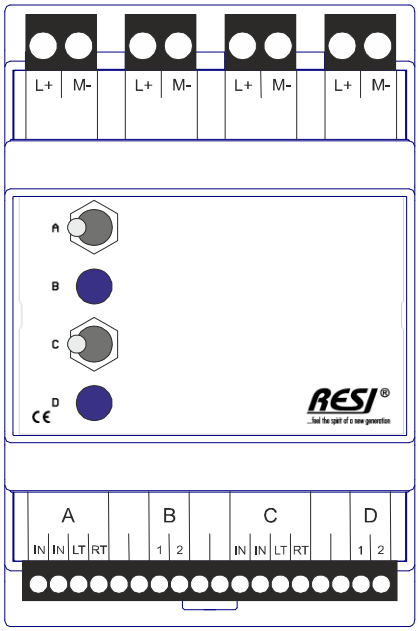


Illustration: Our control and signal module RESI-UI-2SW2L-BL

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	160g
		Mounting	On DIN EN50022 rail or wall mounting
Switches A, C			
Number of switches	2		
Switch positions	LEFT-CENTER-RIGHT		
Voltage for switch	max 250Vac max 28Vdc		
Current for switch	With resistive load max 2A@250Vac max 5A@120Vac max 5A@28Vdc		
Clamps	1 removable 18 pin terminal block in black		
LED B, D			
Number of LEDs	2		
LED color	BLUE		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	1 removable 18 pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	160 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

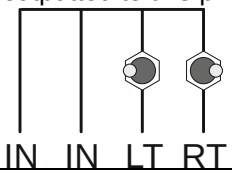
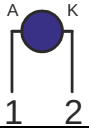
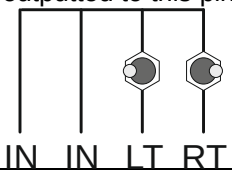
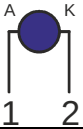
CLAMPS	RESI-UI-2SW2L-BL
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
SWITCH A IN IN LT RT	Clamps for SWITCH A: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
LED B 1 2	Clamps for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
SWITCH C IN IN LT RT	Clamps for SWITCH C: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
LED D 1 2	Clamps for LED D: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 

Table: Clamps

4.11 Control and signal module RESI-UI-2SW2L-WT with 2 switches LEFT-CENTER-RIGHT and 2 LEDs in WHITE

This control module offers the following features:

- 2 switches with three positions: LEFT-CENTER-RIGHT
- Contact rating of each switch: with resistive load: max 2A@250Vac, max 5A@120Vac, max 5A@28Vdc
- 2 LEDs for 24Vdc signals in WHITE (Each LED consumes 24Vdc, 20mA)
- Removable 18 pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

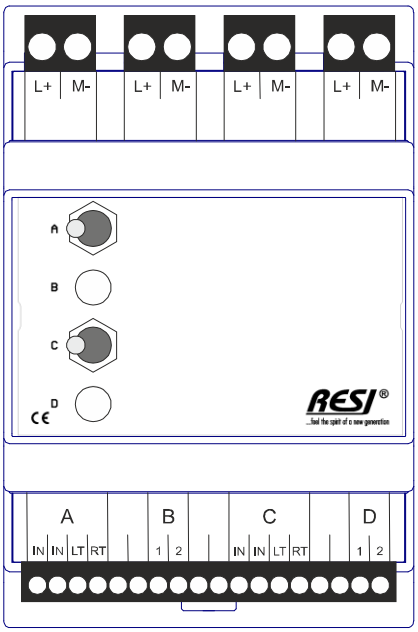


Illustration: Our control and signal module RESI-UI-2SW2L-WT

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	160g
		Mounting	On DIN EN50022 rail or wall mounting
Switches A, C			
Number of switches	2		
Switch positions	LEFT-CENTER-RIGHT		
Voltage for switch	max 250Vac max 28Vdc		
Current for switch	With resistive load max 2A@250Vac max 5A@120Vac max 5A@28Vdc		
Clamps	1 removable 18 pin terminal block in black		
LED B, D			
Number of LEDs	2		
LED color	WHITE		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	1 removable 18 pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	160 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

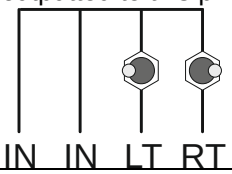
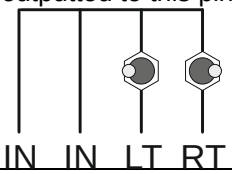
CLAMPS	RESI-UI-2SW2L-WT
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
SWITCH A IN IN LT RT	Clamps for SWITCH A: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
LED B 1 2	Clamps for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
SWITCH C IN IN LT RT	Clamps for SWITCH C: IN: Supply voltage for switch, both clamps are connected internally LT: If the switch is in position LEFT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open RT: If the switch is in position RIGHT, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
LED D 1 2	Clamps for LED D: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 

Table: Clamps

4.12 Control and signal module RESI-UI-2P2SW2L-RD with 2 potentiometer 10kOhm, 2 switches UP-CENTER-DOWN and 2 LEDs in RED

This control module offers the following features:

- 2 potentiometer with 10kOhm
- 2 switches with three positions: UP-CENTER-DOWN
- Contact rating of each switch: with resistive load: max 5A@28Vdc
- 2 LEDs for 24Vdc signals in RED (Each LED consumes 24Vdc, 20mA)
- Removable 18 pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

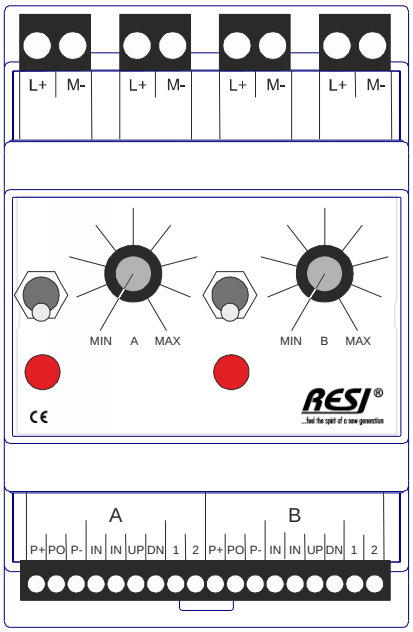


Illustration: Our control and signal module RESI-UI-2P2SW2L-RD

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	175g
		Mounting	On DIN EN50022 rail or wall mounting
Potentiometer A, B			
Number of potentiometer	2		
Resistance range	10kOhm		
Tolerance	+/-10%		
Angle	270°+/-5°		
Power consumption	max. 0.5W		
Switches A, B			
Number of switches	2		
Switch positions	LEFT-CENTER-RIGHT		
Voltage for switch	max 28Vdc		
Current for switch	With resistive load max 5A@28Vdc		
Clamps	1 removable 18 pin terminal block in black		
LED A, B			
Number of LEDs	2		
LED color	RED		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	1 removable 18 pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	175 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

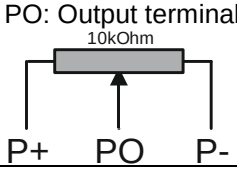
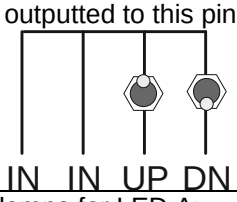
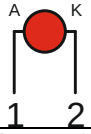
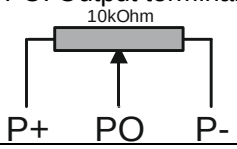
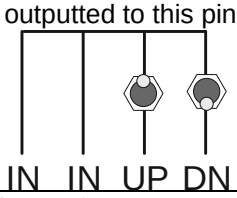
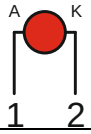
CLAMPS	RESI-UI-2P2SW2L-RD
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
GRUPPE A POTI P+ PO P-	Clamps for POTENTIOMETER A: P+:Maximum terminal of potentiometer P-: Minimum terminal of potentiometer PO: Output terminal of potentiometer 
GRUPPE A SWITCH IN IN UP DN	Clamps for SWITCH A: IN: Supply voltage for switch, both clamps are connected internally UP: If the switch is in position UP, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open DN: If the switch is in position DOWN, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
GRUPPE A LED 1 2	Clamps for LED A: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
GRUPPE B POTI P+ PO P-	Clamps for POTENTIOMETER B: P+:Maximum terminal of potentiometer P-: Minimum terminal of potentiometer PO: Output terminal of potentiometer 
GRUPPE B SWITCH IN IN UP DN	Clamps for SWITCH B: IN: Supply voltage for switch, both clamps are connected internally UP: If the switch is in position UP, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open DN: If the switch is in position DOWN, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
GRUPPE B LED 1 2	Clamps for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 

Table: Clamps

4.13 Control and signal module RESI-UI-2P2SW2L-YE with 2 potentiometer 10kOhm, 2 switches UP-CENTER-DOWN and 2 LEDs in YELLOW

This control module offers the following features:

- 2 potentiometer with 10kOhm
- 2 switches with three positions: UP-CENTER-DOWN
- Contact rating of each switch: with resistive load: max 5A@28Vdc
- 2 LEDs for 24Vdc signals in YELLOW (Each LED consumes 24Vdc, 20mA)
- Removable 18 pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

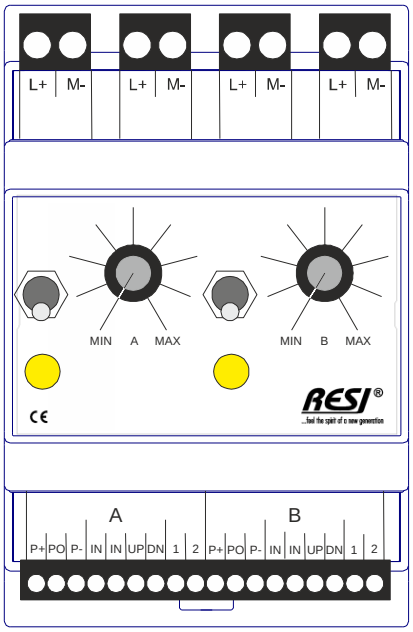


Illustration: Our control and signal module RESI-UI-2P2SW2L-YE

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	175g
		Mounting	On DIN EN50022 rail or wall mounting
Potentiometer A, B			
Number of potentiometer	2		
Resistance range	10kOhm		
Tolerance	+/-10%		
Angle	270°+/-5°		
Power consumption	max. 0.5W		
Switches A, B			
Number of switches	2		
Switch positions	LEFT-CENTER-RIGHT		
Voltage for switch	max 28Vdc		
Current for switch	With resistive load max 5A@28Vdc		
Clamps	1 removable 18 pin terminal block in black		
LED A, B			
Number of LEDs	2		
LED color	YELLOW		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	1 removable 18 pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	175 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

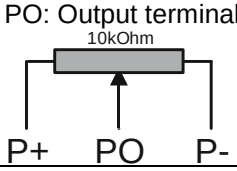
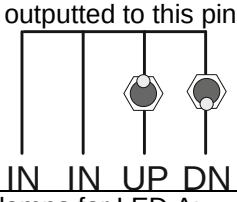
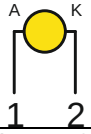
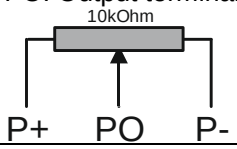
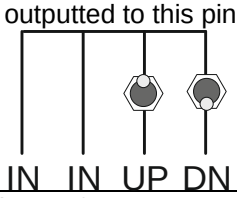
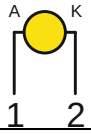
CLAMPS	RESI-UI-2P2SW2L-YE
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
GRUPPE A POTI P+ PO P-	Clamps for POTENTIOMETER A: P+:Maximum terminal of potentiometer P-: Minimum terminal of potentiometer PO: Output terminal of potentiometer 
GRUPPE A SWITCH IN IN UP DN	Clamps for SWITCH A: IN: Supply voltage for switch, both clamps are connected internally UP: If the switch is in position UP, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open DN: If the switch is in position DOWN, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
GRUPPE A LED 1 2	Clamps for LED A: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
GRUPPE B POTI P+ PO P-	Clamps for POTENTIOMETER B: P+:Maximum terminal of potentiometer P-: Minimum terminal of potentiometer PO: Output terminal of potentiometer 
GRUPPE B SWITCH IN IN UP DN	Clamps for SWITCH B: IN: Supply voltage for switch, both clamps are connected internally UP: If the switch is in position UP, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open DN: If the switch is in position DOWN, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
GRUPPE B LED 1 2	Clamps for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 

Table: Clamps

4.14 Control and signal module RESI-UI-2P2SW2L-GN with 2 potentiometer 10kOhm, 2 switches UP-CENTER-DOWN and 2 LEDs in GREEN

This control module offers the following features:

- 2 potentiometer with 10kOhm
- 2 switches with three positions: UP-CENTER-DOWN
- Contact rating of each switch: with resistive load: max 5A@28Vdc
- 2 LEDs for 24Vdc signals in GREEN (Each LED consumes 24Vdc, 20mA)
- Removable 18 pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

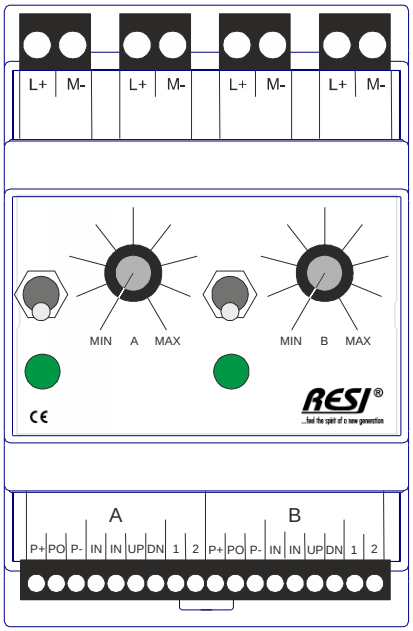


Illustration: Our control and signal module RESI-UI-2P2SW2L-GN

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	175g
		Mounting	On DIN EN50022 rail or wall mounting
Potentiometer A, B			
Number of potentiometer	2		
Resistance range	10kOhm		
Tolerance	+/-10%		
Angle	270°+/-5°		
Power consumption	max. 0.5W		
Switches A, B			
Number of switches	2		
Switch positions	LEFT-CENTER-RIGHT		
Voltage for switch	max 28Vdc		
Current for switch	With resistive load max 5A@28Vdc		
Clamps	1 removable 18 pin terminal block in black		
LED A, B			
Number of LEDs	2		
LED color	GREEN		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	1 removable 18 pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	175 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

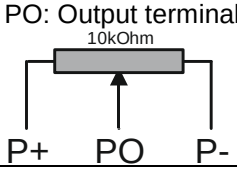
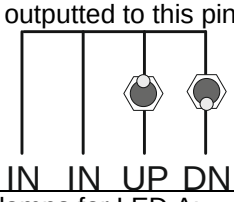
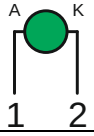
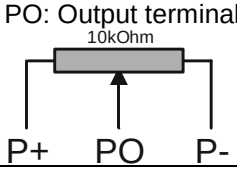
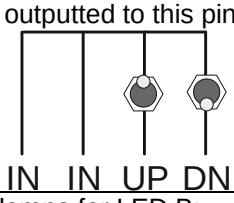
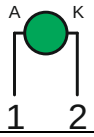
CLAMPS	RESI-UI-2P2SW2L-GN
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
GRUPPE A POTI P+ PO P-	Clamps for POTENTIOMETER A: P+:Maximum terminal of potentiometer P-: Minimum terminal of potentiometer PO: Output terminal of potentiometer 
GRUPPE A SWITCH IN IN UP DN	Clamps for SWITCH A: IN: Supply voltage for switch, both clamps are connected internally UP: If the switch is in position UP, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open DN: If the switch is in position DOWN, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
GRUPPE A LED 1 2	Clamps for LED A: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
GRUPPE B POTI P+ PO P-	Clamps for POTENTIOMETER B: P+:Maximum terminal of potentiometer P-: Minimum terminal of potentiometer PO: Output terminal of potentiometer 
GRUPPE B SWITCH IN IN UP DN	Clamps for SWITCH B: IN: Supply voltage for switch, both clamps are connected internally UP: If the switch is in position UP, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open DN: If the switch is in position DOWN, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
GRUPPE B LED 1 2	Clamps for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 

Table: Clamps

4.15 Control and signal module RESI-UI-2P2SW2L-BL with 2 potentiometer 10kOhm, 2 switches UP-CENTER-DOWN and 2 LEDs in BLUE

This control module offers the following features:

- 2 potentiometer with 10kOhm
- 2 switches with three positions: UP-CENTER-DOWN
- Contact rating of each switch: with resistive load: max 5A@28Vdc
- 2 LEDs for 24Vdc signals in BLUE (Each LED consumes 24Vdc, 20mA)
- Removable 18 pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

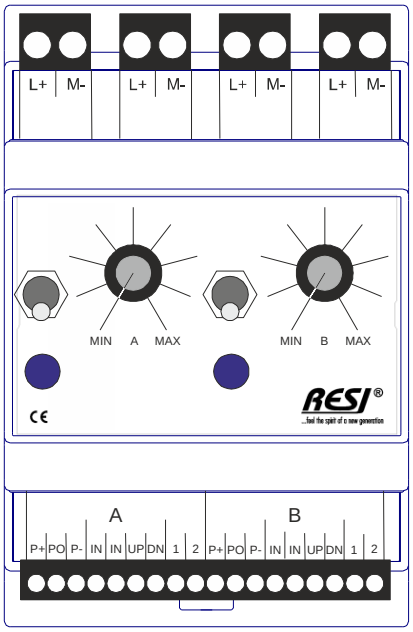


Illustration: Our control and signal module RESI-UI-2P2SW2L-BL

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	175g
		Mounting	On DIN EN50022 rail or wall mounting
Potentiometer A, B			
Number of potentiometer	2		
Resistance range	10kOhm		
Tolerance	+/-10%		
Angle	270°+/-5°		
Power consumption	max. 0.5W		
Switches A, B			
Number of switches	2		
Switch positions	LEFT-CENTER-RIGHT		
Voltage for switch	max 28Vdc		
Current for switch	With resistive load max 5A@28Vdc		
Clamps	1 removable 18 pin terminal block in black		
LED A, B			
Number of LEDs	2		
LED color	BLUE		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	1 removable 18 pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	175 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

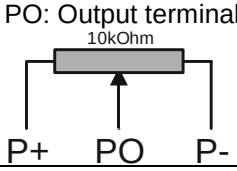
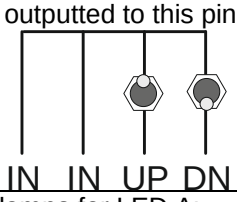
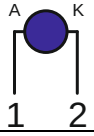
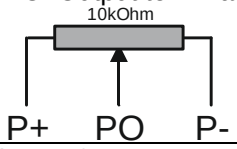
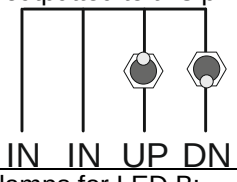
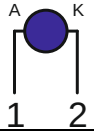
CLAMPS	RESI-UI-2P2SW2L-BL
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
GRUPPE A POTI P+ PO P-	Clamps for POTENTIOMETER A: P+:Maximum terminal of potentiometer P-: Minimum terminal of potentiometer PO: Output terminal of potentiometer 
GRUPPE A SWITCH IN IN UP DN	Clamps for SWITCH A: IN: Supply voltage for switch, both clamps are connected internally UP: If the switch is in position UP, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open DN: If the switch is in position DOWN, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
GRUPPE A LED 1 2	Clamps for LED A: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
GRUPPE B POTI P+ PO P-	Clamps for POTENTIOMETER B: P+:Maximum terminal of potentiometer P-: Minimum terminal of potentiometer PO: Output terminal of potentiometer 
GRUPPE B SWITCH IN IN UP DN	Clamps for SWITCH B: IN: Supply voltage for switch, both clamps are connected internally UP: If the switch is in position UP, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open DN: If the switch is in position DOWN, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
GRUPPE B LED 1 2	Clamps for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 

Table: Clamps

4.16 Control and signal module RESI-UI-2P2SW2L-WT with 2 potentiometer 10kOhm, 2 switches UP-CENTER-DOWN and 2 LEDs in WHITE

This control module offers the following features:

- 2 potentiometer with 10kOhm
- 2 switches with three positions: UP-CENTER-DOWN
- Contact rating of each switch: with resistive load: max 5A@28Vdc
- 2 LEDs for 24Vdc signals in WHITE (Each LED consumes 24Vdc, 20mA)
- Removable 18 pin terminal block in black
- 4 black 2pin terminal blocks to distribute the power supply
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting
- Ideal solution to build a DIN ISO 16484 or VDI 3814 compatible manual operating interface

Illustration: Our control and signal module RESI-UI-2P2SW2L-WT

Technical Data			
Contact rating			
L+, M- terminals		Storage temperature	-20...80 °C
Voltage	max 60Vdc	Operating Temperature	0...60°C
Current	max 4A	Protection Class	IP20 (EN 60529)
Type of terminal block	4xremoveable 2pin terminal block in black	Humidity	25...90 % rH non-condensing
All L+ are internally bridged together		Dimensions LxWxH	72mm x 110mm x 62mm
All M- are internally bridged together		Weight	175g
		Mounting	On DIN EN50022 rail or wall mounting
Potentiometer A, B			
Number of potentiometer	2		
Resistance range	10kOhm		
Tolerance	+/-10%		
Angle	270°+/-5°		
Power consumption	max. 0.5W		
Switches A, B			
Number of switches	2		
Switch positions	LEFT-CENTER-RIGHT		
Voltage for switch	max 28Vdc		
Current for switch	With resistive load max 5A@28Vdc		
Clamps	1 removable 18 pin terminal block in black		
LED A, B			
Number of LEDs	2		
LED color	WHITE		
LED Voltage	24Vdc		
Strom pro LED	max 20mA		
Power consumption per LED	<0.5W		
Clamps	1 removable 18 pin terminal block in black		
Clamps			
Clamp wire cross section	max 1,5 mm²		
Tightening torque	max 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	175 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

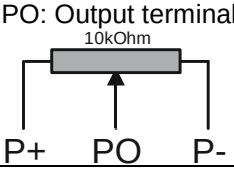
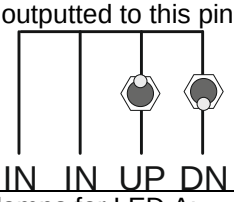
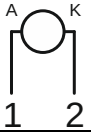
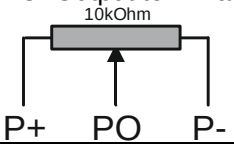
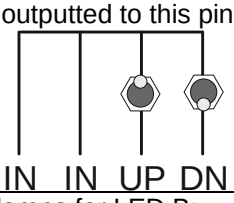
CLAMPS	RESI-UI-2P2SW2L-WT
Power supply L+ M-	Bridged group of clamps to supply other modules with the input supply L+: All pins marked L+ are internally combined (bridged) Supply 0..60Vdc M-: All pins marked M- are internally combined (bridged) Ground of the supply
GRUPPE A POTI P+ PO P-	Clamps for POTENTIOMETER A: P+:Maximum terminal of potentiometer P-: Minimum terminal of potentiometer PO: Output terminal of potentiometer 
GRUPPE A SWITCH IN IN UP DN	Clamps for SWITCH A: IN: Supply voltage for switch, both clamps are connected internally UP: If the switch is in position UP, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open DN: If the switch is in position DOWN, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
GRUPPE A LED 1 2	Clamps for LED A: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 
GRUPPE B POTI P+ PO P-	Clamps for POTENTIOMETER B: P+:Maximum terminal of potentiometer P-: Minimum terminal of potentiometer PO: Output terminal of potentiometer 
GRUPPE B SWITCH IN IN UP DN	Clamps for SWITCH B: IN: Supply voltage for switch, both clamps are connected internally UP: If the switch is in position UP, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open DN: If the switch is in position DOWN, the supply voltage on clamp IN will be outputted to this pin. In every other switch position this contact will be open 
GRUPPE B LED 1 2	Clamps for LED B: 1: +24Vdc pin for LED (Anode) 2: GND pin for LED (Cathode) 

Table: Clamps

5 RESI bridge modules

5.1 Bridge module RESI-BR-1X4IO4P-BK-BK for 4 sensors/actuators with 2 signals and power supply

This bridge module offers the following features:

- Four removable 4pin terminal blocks in black to connect external sensors or actuators
- Two removable 2pin terminal blocks in black for cabling of the power supply for all four sensor/actuator terminal blocks
- Four removable 3pin terminal blocks in black for cabling of the signals for all four sensor/actuator terminal blocks
- Labelling of the terminal blocks on the cover of the module with standard lettering device
- Contact rating: power supply via PWR: max. 60Vdc, max. 5A, Signals: max. 60Vdc, max 1A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

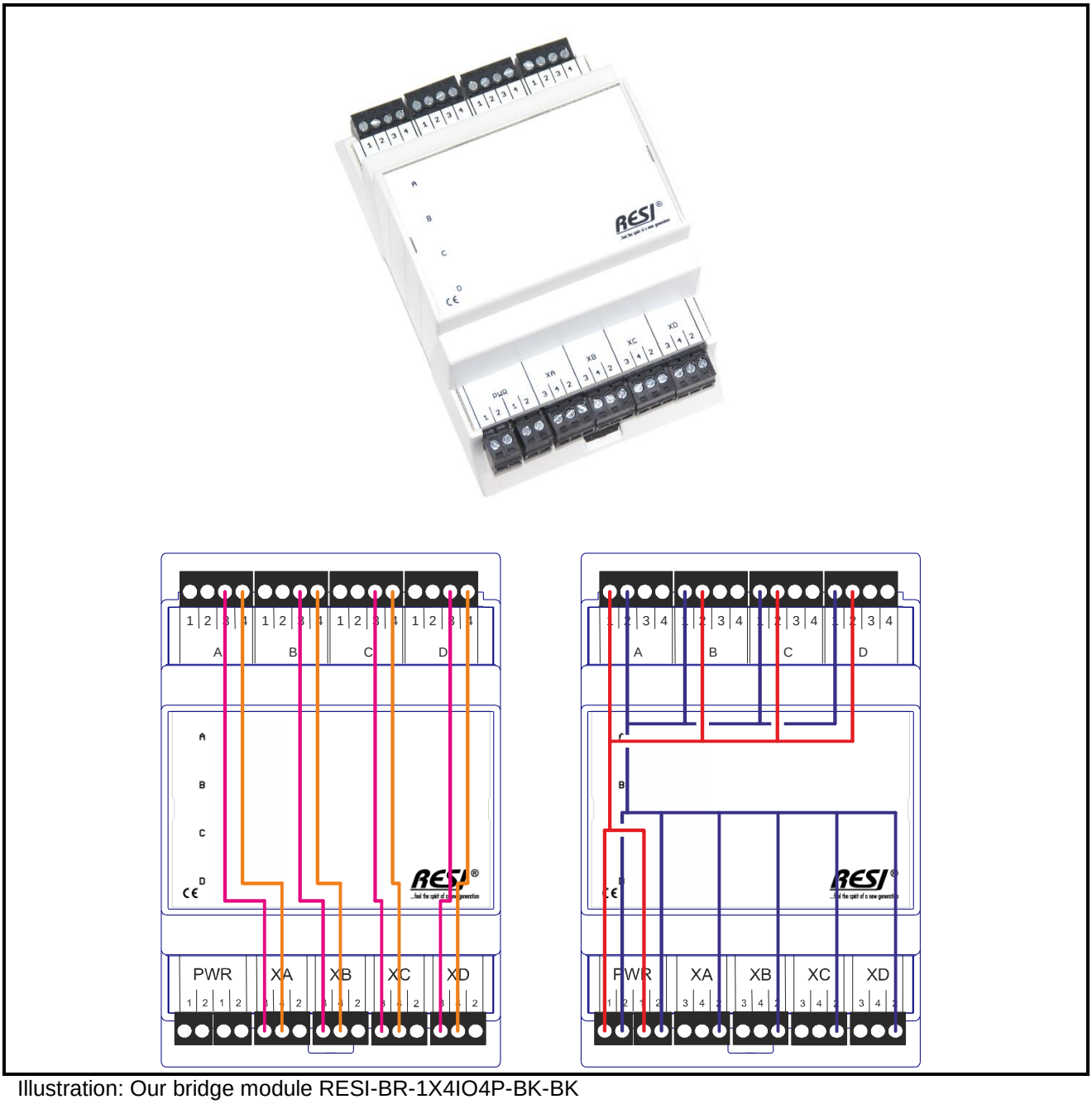


Illustration: Our bridge module RESI-BR-1X4IO4P-BK-BK

Technical Data			
Contact rating			
Voltage	max. 60Vdc	Storage temperature	-20...85 °C
Current	Power supply: max. 5A Signals: max. 1A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Clamps of sensors / actuators	4 terminal blocks	Dimension LxWxH	72mm x 110mm x 62mm
Terminal block type	Removable 4pin terminal block	Weight	150g
Terminal block color	black	Mounting	On DIN EN50022 rail or wall mounting
Clamps for power supply	2 2pin terminal blocks		
Terminal block type	Removable 4pin terminal block		
Terminal block color	black		
Clamps for signal wiring	4 terminal block		
Terminal block type	Removable 3pin terminal block		
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	150 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	RESI-BR-1X4IO4P-BK-BK
PWR	Terminal block for power supply of the IO terminals A, B, C, D:
1	1: L+ of the power supply
2	2: M- (Ground) of the power supply
3	All pins with 1 are internally combined together (bridged)
4	All pins with 2 are internally combined together (bridged)
A	Terminal block for external sensor/actuator A:
1	1: L+ of the power supply terminal block PWR.1
2	2: M- (Ground) of the power supply terminal block PWR.2
3	3: Signal from the terminal block XA.3
4	4: Signal from the terminal block XA.4
B	Terminal block for external sensor/actuator B:
1	1: L+ of the power supply terminal block PWR.1
2	2: M- (Ground) of the power supply terminal block PWR.2
3	3: Signal from the terminal block XB.3
4	4: Signal from the terminal block XB.4
C	Terminal block for external sensor/actuator C:
1	1: L+ of the power supply terminal block PWR.1
2	2: M- (Ground) of the power supply terminal block PWR.2
3	3: Signal from the terminal block XC.3
4	4: Signal from the terminal block XC.4
D	Terminal block for external sensor/actuator D:
1	1: L+ of the power supply terminal block PWR.1
2	2: M- (Ground) of the power supply terminal block PWR.2
3	3: Signal from the terminal block XD.3
4	4: Signal from the terminal block XD.4
XA	Terminal block for wiring external sensor/actuator signals on terminal block A:
3	3: Signal to the terminal block A.3
4	4: Signal to the terminal block A.4
2	2: M- (Ground) of the power supply terminal block PWR.2
XB	Terminal block for wiring external sensor/actuator signals on terminal block B:
3	3: Signal to the terminal block B.3
4	4: Signal to the terminal block B.4
2	2: M- (Ground) of the power supply terminal block PWR.2
XC	Terminal block for wiring external sensor/actuator signals on terminal block C:
3	3: Signal to the terminal block C.3
4	4: Signal to the terminal block C.4
2	2: M- (Ground) of the power supply terminal block PWR.2
XD	Terminal block for wiring external sensor/actuator signals on terminal block D:
3	3: Signal to the terminal block D.3
4	4: Signal to the terminal block D.4
2	2: M- (Ground) of the power supply terminal block PWR.2

Table: Clamps

5.1.1 Wiring examples

Here you find examples, how to wire this module:

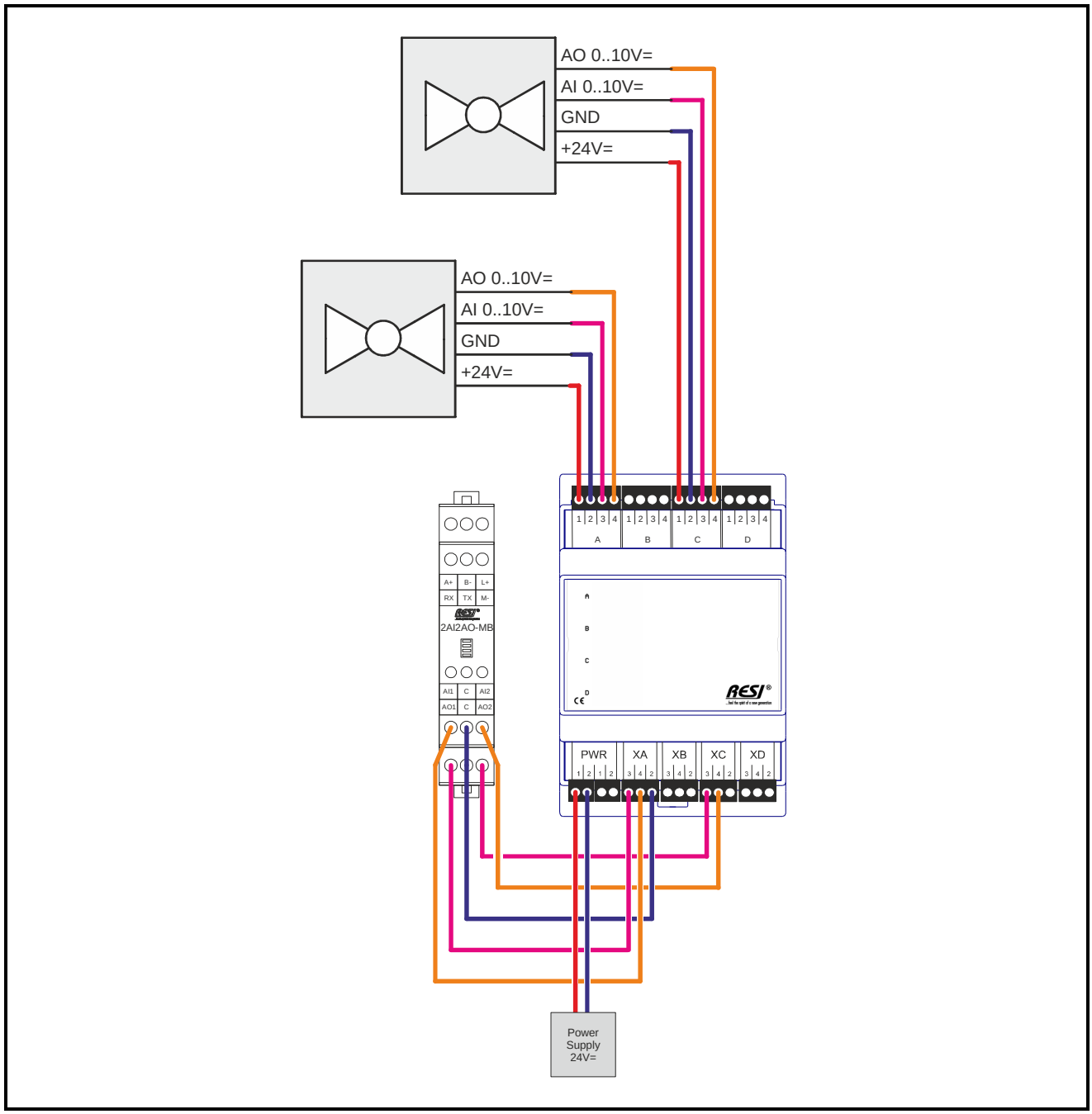


Illustration: Sample: Wiring of two valves with analogue set point signal and analogue position signal

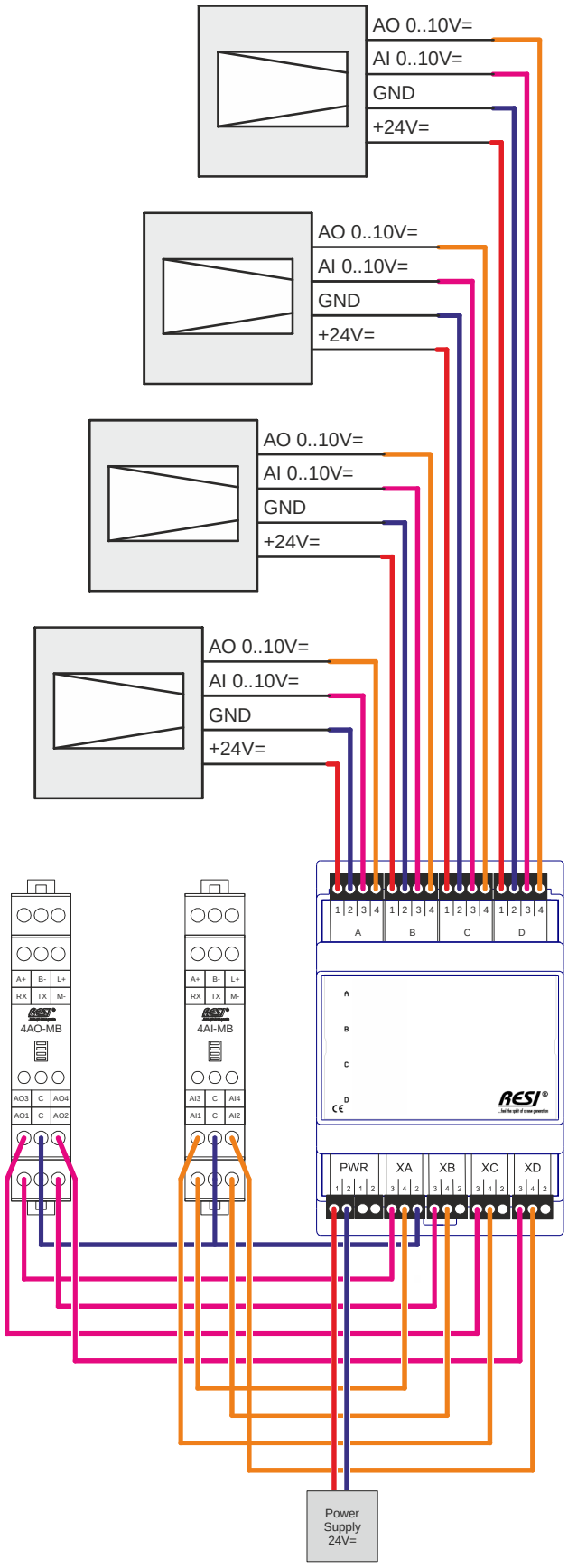


Illustration: Sample: Wiring of four volume flow controller (VAV) with analogue set point signal and analogue air volume signal

5.2 Bridge module RESI-BR-1X4IO4P-BK-GY for 4 sensors/actuators with 2 signals and power supply

This bridge module offers the following features:

- Four removable 4pin terminal blocks in dark gray to connect external sensors or actuators
- Two removable 2pin terminal blocks in black for cabling of the power supply for all four sensor/actuator terminal blocks
- Four removable 3pin terminal blocks in black for cabling of the signals for all four sensor/actuator terminal blocks
- Labelling of the terminal blocks on the cover of the module with standard lettering device
- Contact rating: power supply via PWR: max. 60Vdc, max. 5A, Signals: max. 60Vdc, max 1A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

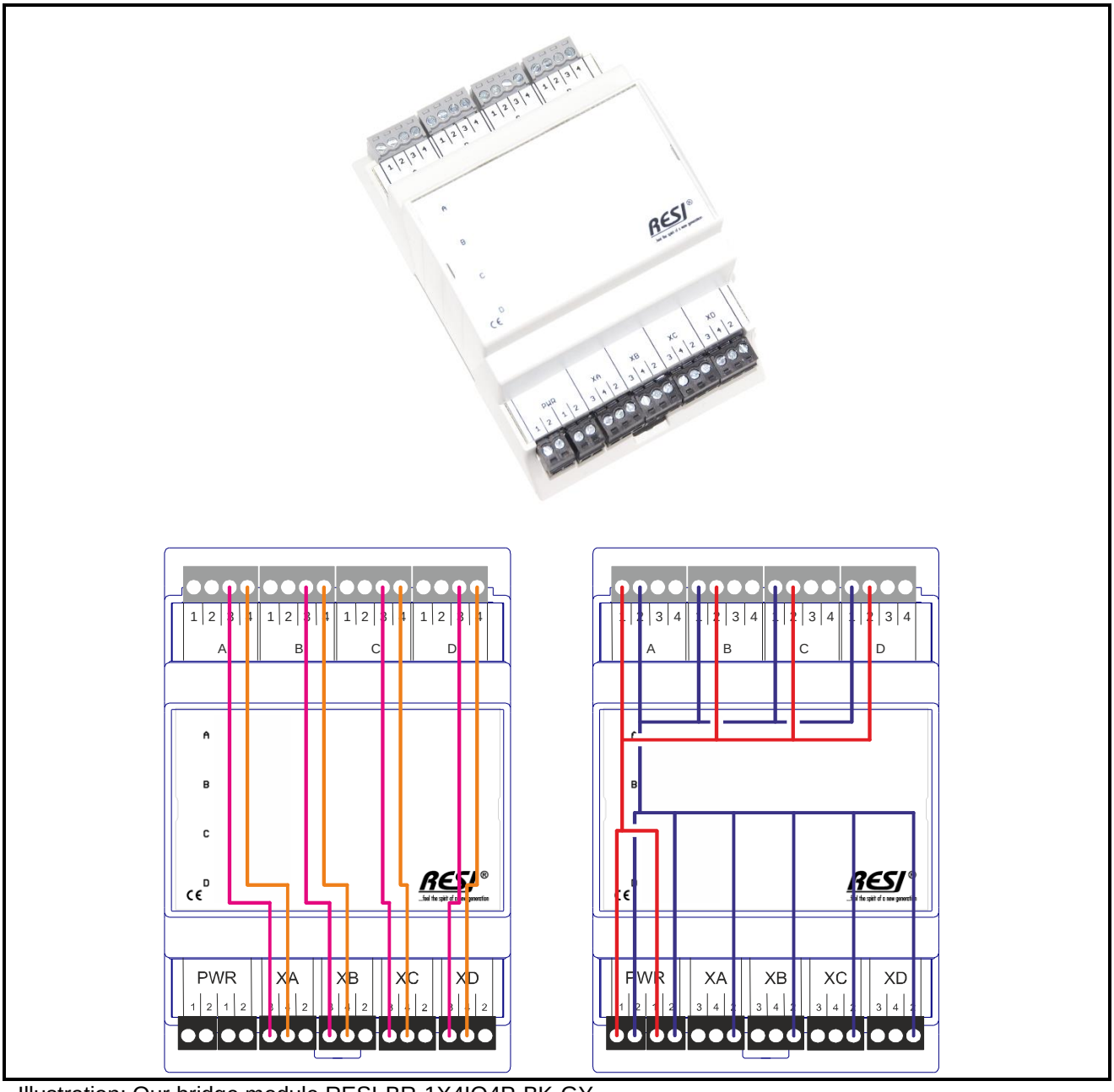


Illustration: Our bridge module RESI-BR-1X4IO4P-BK-GY

Technical Data			
Contact rating			
Voltage	max. 60Vdc	Storage temperature	-20...85 °C
Current	Power supply: max. 5A Signals: max. 1A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Clamps of sensors / actuators	4 terminal blocks	Dimension LxWxH	72mm x 110mm x 62mm
Terminal block type	Removable 4pin terminal block	Weight	150g
Terminal block color	dark gray	Mounting	On DIN EN50022 rail or wall mounting
Clamps for power supply	2 2pin terminal blocks		
Terminal block type	Removable 4pin terminal block		
Terminal block color	black		
Clamps for signal wiring	4 terminal block		
Terminal block type	Removable 3pin terminal block		
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	150 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	RESI-BR-1X4IO4P-BK-GY
PWR	Terminal block for power supply of the IO terminals A, B, C, D:
1	1: L+ of the power supply
2	2: M- (Ground) of the power supply
3	All pins with 1 are internally combined together (bridged)
4	All pins with 2 are internally combined together (bridged)
A	Terminal block for external sensor/actuator A:
1	1: L+ of the power supply terminal block PWR.1
2	2: M- (Ground) of the power supply terminal block PWR.2
3	3: Signal from the terminal block XA.3
4	4: Signal from the terminal block XA.4
B	Terminal block for external sensor/actuator B:
1	1: L+ of the power supply terminal block PWR.1
2	2: M- (Ground) of the power supply terminal block PWR.2
3	3: Signal from the terminal block XB.3
4	4: Signal from the terminal block XB.4
C	Terminal block for external sensor/actuator C:
1	1: L+ of the power supply terminal block PWR.1
2	2: M- (Ground) of the power supply terminal block PWR.2
3	3: Signal from the terminal block XC.3
4	4: Signal from the terminal block XC.4
D	Terminal block for external sensor/actuator D:
1	1: L+ of the power supply terminal block PWR.1
2	2: M- (Ground) of the power supply terminal block PWR.2
3	3: Signal from the terminal block XD.3
4	4: Signal from the terminal block XD.4
XA	Terminal block for wiring external sensor/actuator signals on terminal block A:
3	3: Signal to the terminal block A.3
4	4: Signal to the terminal block A.4
2	2: M- (Ground) of the power supply terminal block PWR.2
XB	Terminal block for wiring external sensor/actuator signals on terminal block B:
3	3: Signal to the terminal block B.3
4	4: Signal to the terminal block B.4
2	2: M- (Ground) of the power supply terminal block PWR.2
XC	Terminal block for wiring external sensor/actuator signals on terminal block C:
3	3: Signal to the terminal block C.3
4	4: Signal to the terminal block C.4
2	2: M- (Ground) of the power supply terminal block PWR.2
XD	Terminal block for wiring external sensor/actuator signals on terminal block D:
3	3: Signal to the terminal block D.3
4	4: Signal to the terminal block D.4
2	2: M- (Ground) of the power supply terminal block PWR.2

Table: Clamps

5.2.1 Wiring examples

Here you find examples, how to wire this module:

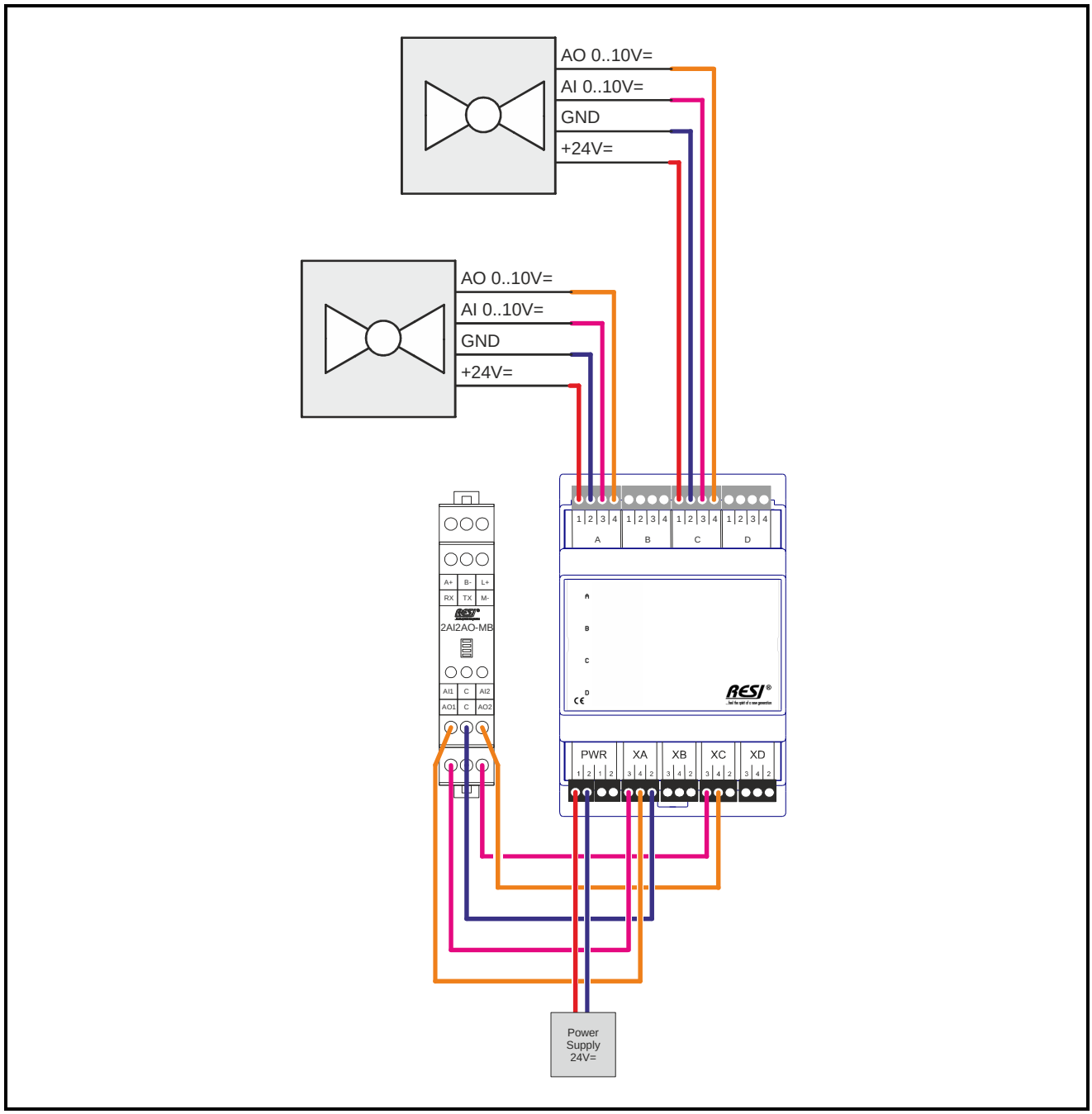


Illustration: Sample: Wiring of two valves with analogue set point signal and analogue position signal

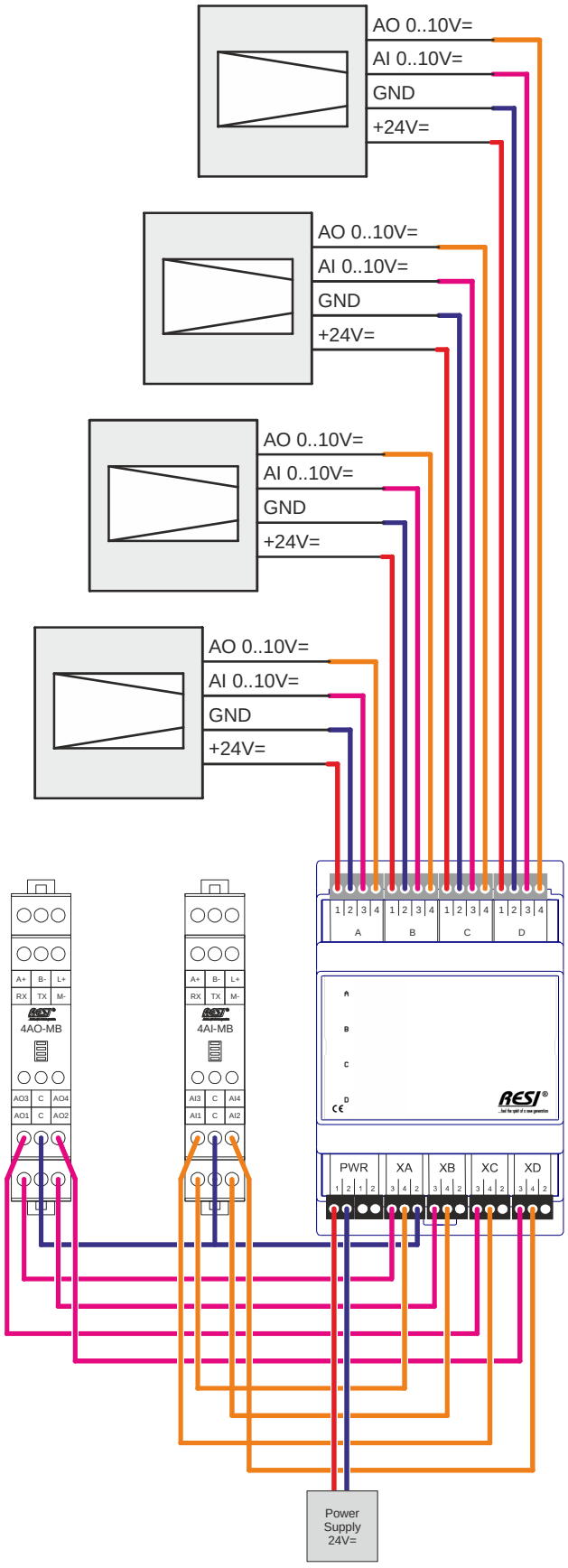


Illustration: Sample: Wiring of four volume flow controller (VAV) with analogue set point signal and analogue air volume signal

5.3 Bridge module RESI-BR-1X4IO4-BK-BK for 4 sensors/actuators with 4 signals without power supply

This bridge module offers the following features:

- Four removable 4pin terminal blocks in black to connect external sensors or actuators
- Four removable 4pin terminal blocks in black for cabling of the signals for all four sensor/actuator terminal blocks
- Labelling of the terminal blocks on the cover of the module with standard lettering device
- Contact rating: max. 250Vac, max. 60Vdc, max. 5A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

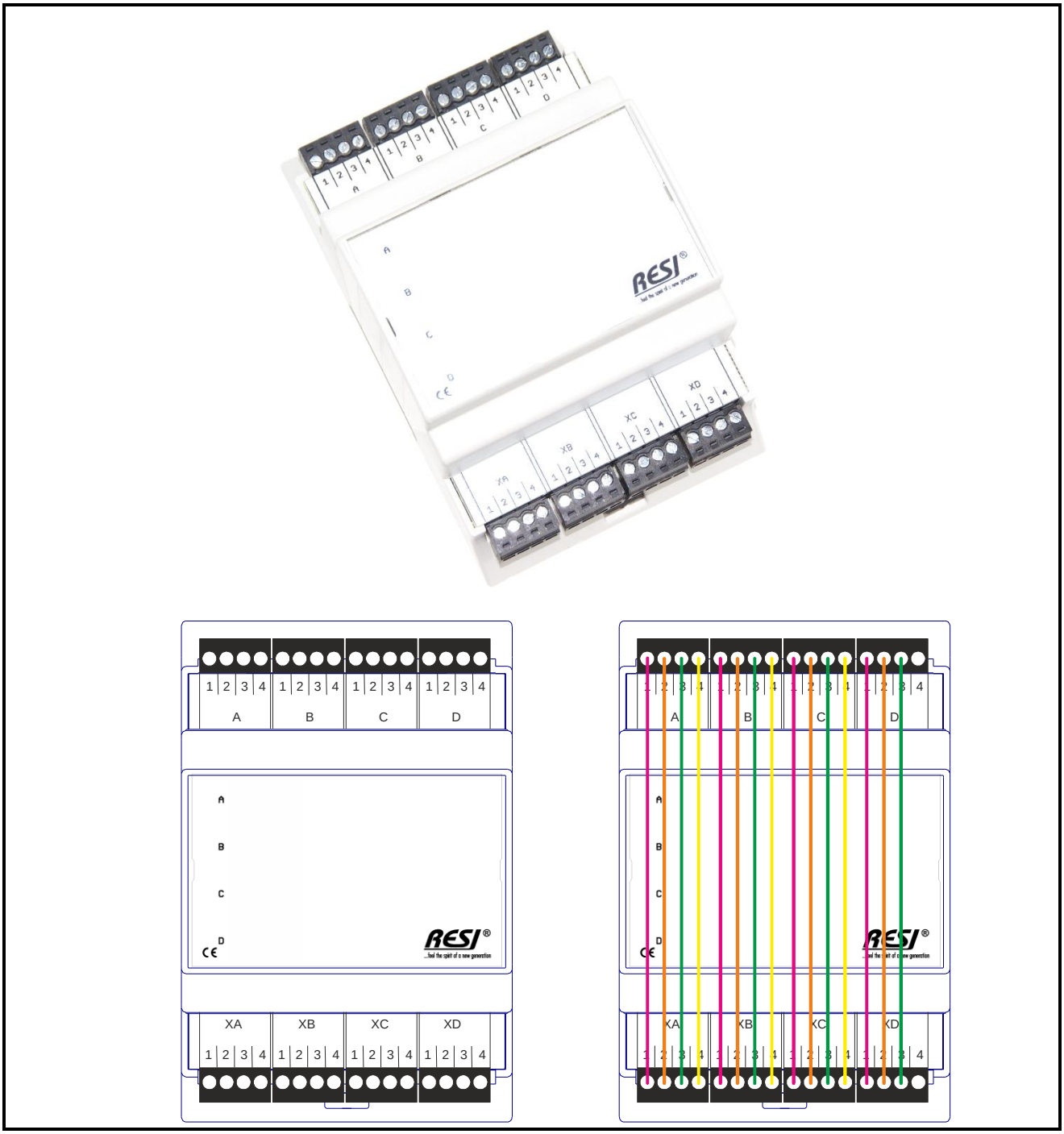


Illustration: Our bridge module RESI-BR-1X4IO4-BK-BK

Technical Data			
Contact rating			
Voltage	max. 250Vac max. 60Vdc	Storage temperature	-20...85 °C
Current	max. 5A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Clamps of sensors / actuators	4 terminal blocks	Dimension LxWxH	72mm x 110mm x 62mm
Terminal block type	Removable 4pin terminal block	Weight	145g
Terminal block color	black	Mounting	On DIN EN50022 rail or wall mounting
Clamps for signal wiring	4 terminal block		
Terminal block type	Removable 4pin terminal block		
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	145 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	RESI-BR-1X4IO4-BK-BK
A	Terminal block for external sensor/actuator A:
1	1: Signal from the terminal block XA.1
2	2: Signal from the terminal block XA.2
3	3: Signal from the terminal block XA.3
4	4: Signal from the terminal block XA.4
B	Terminal block for external sensor/actuator B:
1	1: Signal from the terminal block XB.1
2	2: Signal from the terminal block XB.2
3	3: Signal from the terminal block XB.3
4	4: Signal from the terminal block XB.4
C	Terminal block for external sensor/actuator C:
1	1: Signal from the terminal block XC.1
2	2: Signal from the terminal block XC.2
3	3: Signal from the terminal block XC.3
4	4: Signal from the terminal block XC.4
D	Terminal block for external sensor/actuator D:
1	1: Signal from the terminal block XD.1
2	2: Signal from the terminal block XD.2
3	3: Signal from the terminal block XD.3
4	4: Signal from the terminal block XD.4
XA	Terminal block for wiring external sensor/actuator signals on terminal block A:
1	1: Signal to the terminal block A.1
2	2: Signal to the terminal block A.2
3	3: Signal to the terminal block A.3
4	4: Signal to the terminal block A.4
XB	Terminal block for wiring external sensor/actuator signals on terminal block B:
1	1: Signal to the terminal block B.1
2	2: Signal to the terminal block B.2
3	3: Signal to the terminal block B.3
4	4: Signal to the terminal block B.4
XC	Terminal block for wiring external sensor/actuator signals on terminal block C:
1	1: Signal to the terminal block C.1
2	2: Signal to the terminal block C.2
3	3: Signal to the terminal block C.3
4	4: Signal to the terminal block C.4
XD	Terminal block for wiring external sensor/actuator signals on terminal block D:
1	1: Signal to the terminal block D.1
2	2: Signal to the terminal block D.2
3	3: Signal to the terminal block D.3
4	4: Signal to the terminal block D.4

Table: Clamps

5.3.1 Wiring examples

Here you find examples, how to wire this module:

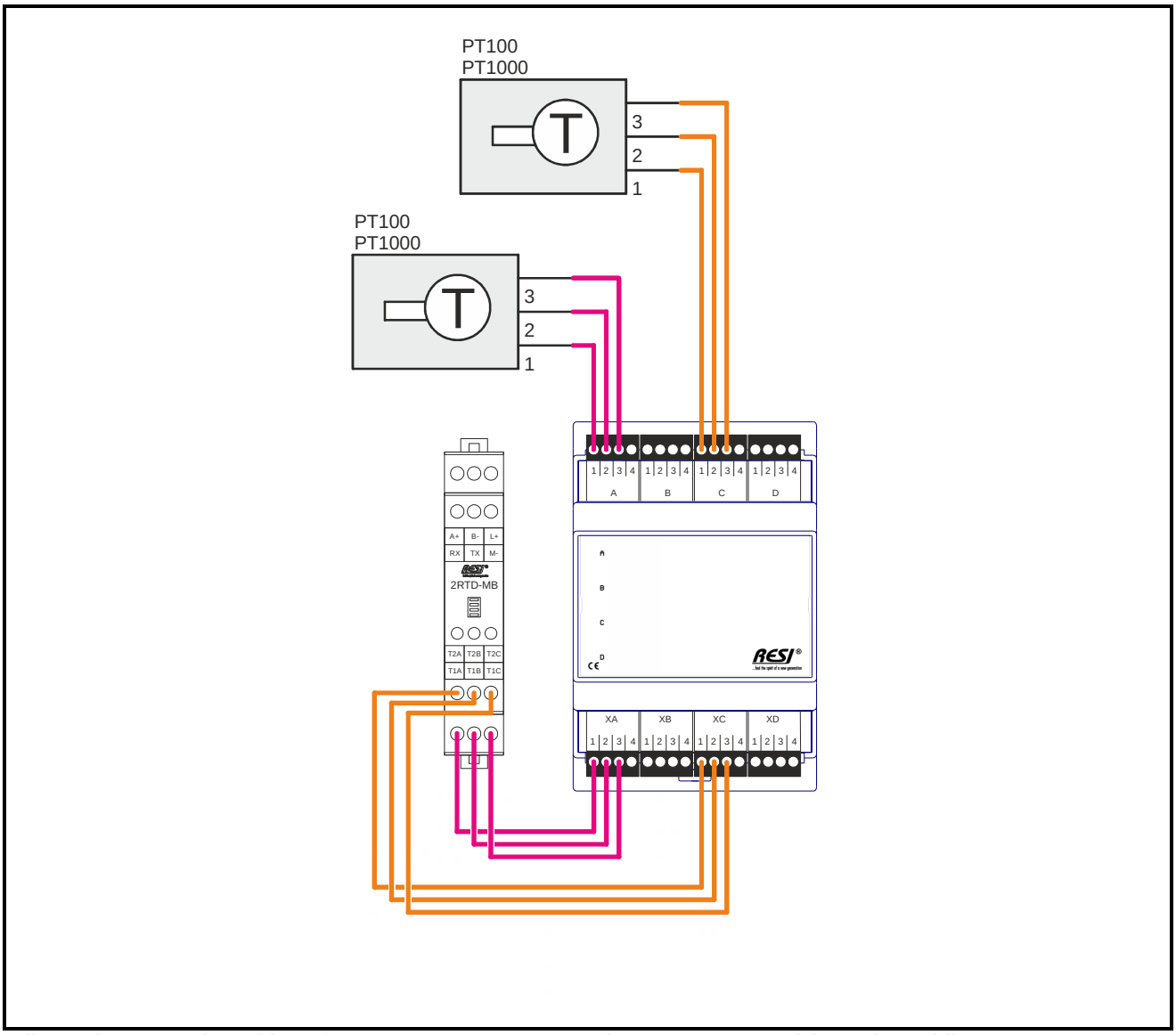


Illustration: Sample: Wiring of two temperature sensors (PT100 or PT1000) in 3 wire cabling

5.4 Bridge module RESI-BR-1X4IO4-BK-GY for 4 sensors/actuators with 4 signals without power supply

This bridge module offers the following features:

- Four removable 4pin terminal blocks in dark gray to connect external sensors or actuators
- Four removable 4pin terminal blocks in black for cabling of the signals for all four sensor/actuator terminal blocks
- Labelling of the terminal blocks on the cover of the module with standard lettering device
- Contact rating: max. 250Vac, max. 60Vdc, max. 5A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

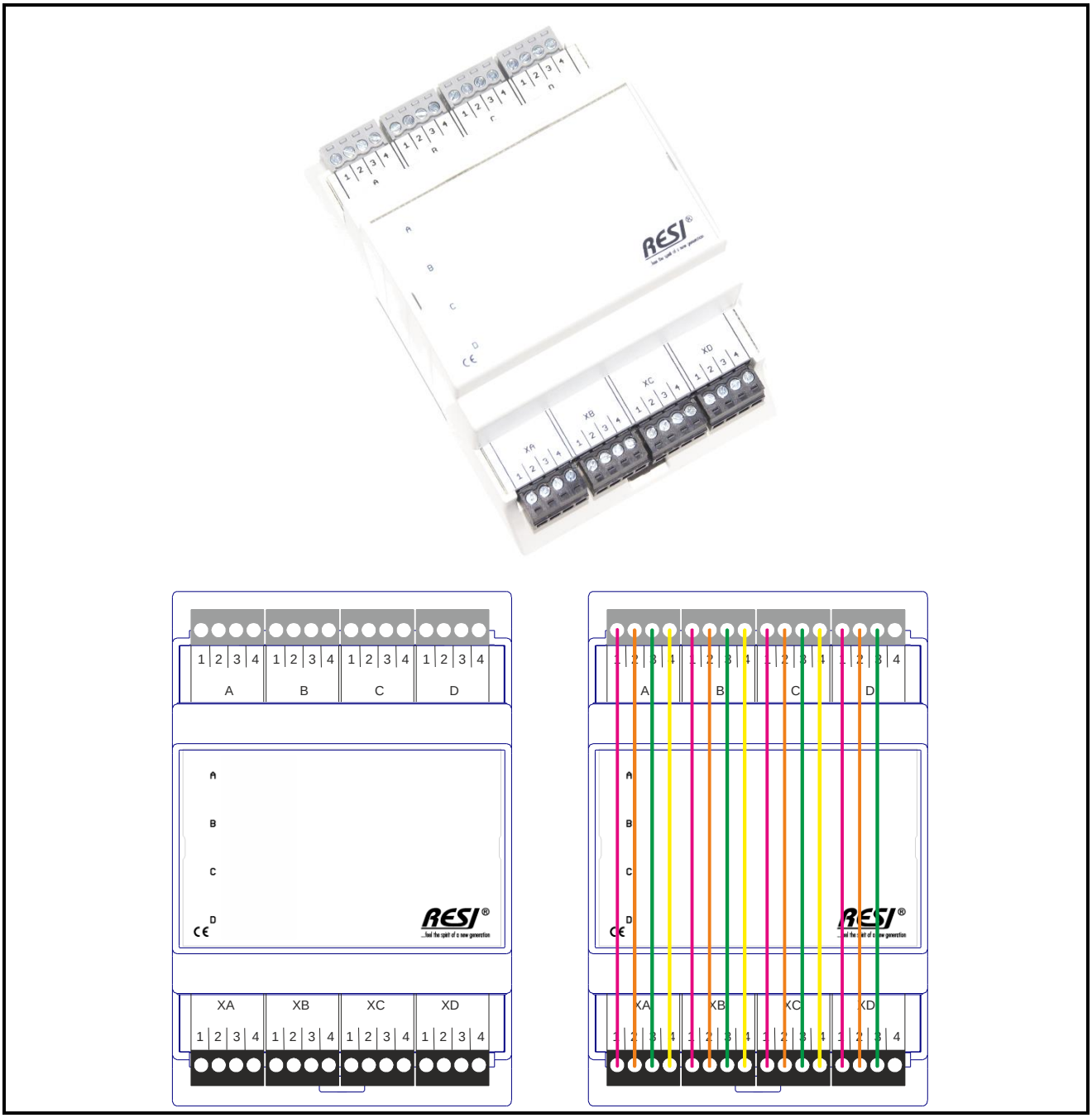


Illustration: Our bridge module RESI-BR-1X4IO4-BK-GY

Technical Data			
Contact rating			
Voltage	max. 250Vac max. 60Vdc	Storage temperature	-20...85 °C
Current	max. 5A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Clamps of sensors / actuators	4 terminal blocks	Dimension LxWxH	72mm x 110mm x 62mm
Terminal block type	Removable 4pin terminal block	Weight	145g
Terminal block color	dark gray	Mounting	On DIN EN50022 rail or wall mounting
Clamps for signal wiring	4 terminal block		
Terminal block type	Removable 4pin terminal block		
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	145 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	RESI-BR-1X4IO4-BK-GY
A	Terminal block for external sensor/actuator A:
1	1: Signal from the terminal block XA.1
2	2: Signal from the terminal block XA.2
3	3: Signal from the terminal block XA.3
4	4: Signal from the terminal block XA.4
B	Terminal block for external sensor/actuator B:
1	1: Signal from the terminal block XB.1
2	2: Signal from the terminal block XB.2
3	3: Signal from the terminal block XB.3
4	4: Signal from the terminal block XB.4
C	Terminal block for external sensor/actuator C:
1	1: Signal from the terminal block XC.1
2	2: Signal from the terminal block XC.2
3	3: Signal from the terminal block XC.3
4	4: Signal from the terminal block XC.4
D	Terminal block for external sensor/actuator D:
1	1: Signal from the terminal block XD.1
2	2: Signal from the terminal block XD.2
3	3: Signal from the terminal block XD.3
4	4: Signal from the terminal block XD.4
XA	Terminal block for wiring external sensor/actuator signals on terminal block A:
1	1: Signal to the terminal block A.1
2	2: Signal to the terminal block A.2
3	3: Signal to the terminal block A.3
4	4: Signal to the terminal block A.4
XB	Terminal block for wiring external sensor/actuator signals on terminal block B:
1	1: Signal to the terminal block B.1
2	2: Signal to the terminal block B.2
3	3: Signal to the terminal block B.3
4	4: Signal to the terminal block B.4
XC	Terminal block for wiring external sensor/actuator signals on terminal block C:
1	1: Signal to the terminal block C.1
2	2: Signal to the terminal block C.2
3	3: Signal to the terminal block C.3
4	4: Signal to the terminal block C.4
XD	Terminal block for wiring external sensor/actuator signals on terminal block D:
1	1: Signal to the terminal block D.1
2	2: Signal to the terminal block D.2
3	3: Signal to the terminal block D.3
4	4: Signal to the terminal block D.4

Table: Clamps

5.4.1 Wiring examples

Here you find examples, how to wire this module:

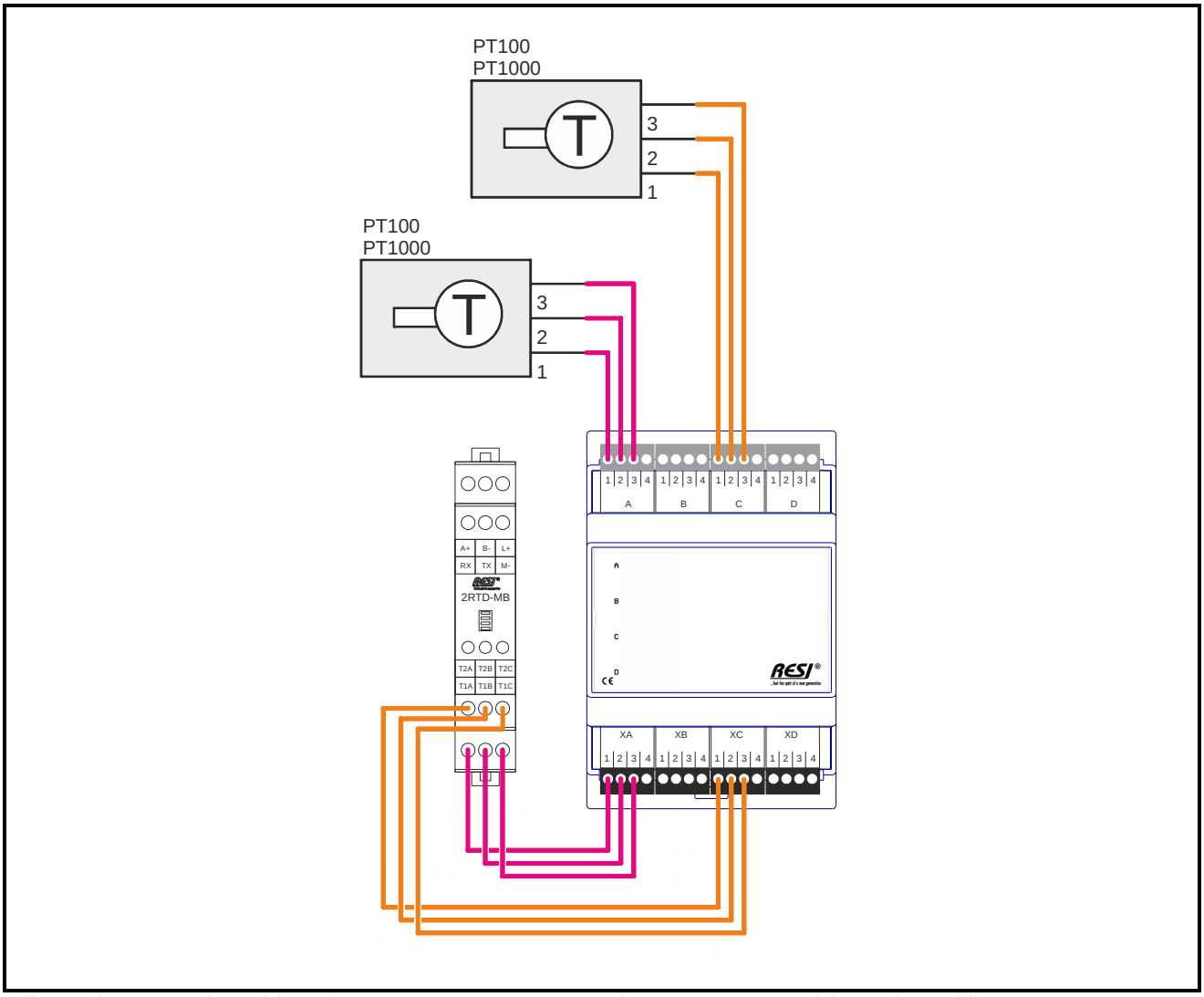


Illustration: Sample: Wiring of two temperature sensors (PT100 or PT1000) in 3 wire cabling

5.5 Bridge module RESI-BR-1X7IO2-BK-BK for 7 sensors/actuators with 2 signals without power supply

This bridge module offers the following features:

- Seven removable 2pin terminal blocks in black to connect external sensors or actuators
- Seven removable 2pin terminal blocks in black for cabling of the signals for all seven sensor/actuator terminal blocks
- Labelling of the terminal blocks on the cover of the module with standard lettering device
- Contact rating: max. 250Vac, max. 60Vdc, max. 5A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

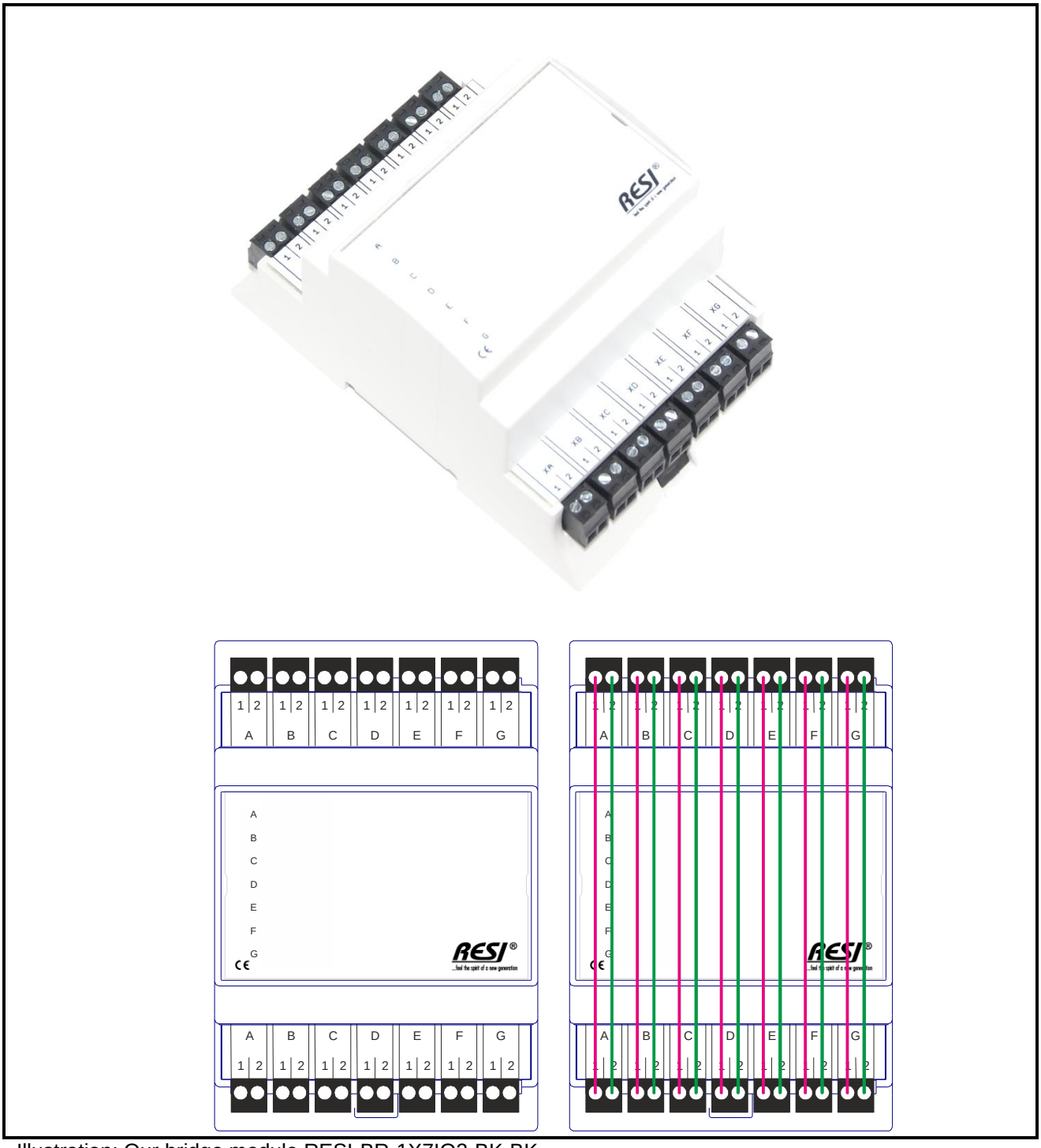


Illustration: Our bridge module RESI-BR-1X7IO2-BK-BK

Technical Data			
Contact rating			
Voltage	max. 250Vac max. 60Vdc	Storage temperature	-20...85 °C
Current	max. 5A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Clamps of sensors / actuators	7 terminal blocks	Dimension LxWxH	72mm x 110mm x 62mm
Terminal block type	Removable 2pin terminal block	Weight	150g
Terminal block color	Black	Mounting	On DIN EN50022 rail or wall mounting
Clamps for signal wiring	7 terminal block		
Terminal block type	Removable 2pin terminal block		
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	150 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	RESI-BR-1X7IO2-BK-BK
A	Terminal block for external sensor/actuator A:
1	1: Signal from the terminal block XA.1
2	2: Signal from the terminal block XA.2
B	Terminal block for external sensor/actuator B:
1	1: Signal from the terminal block XB.1
2	2: Signal from the terminal block XB.2
C	Terminal block for external sensor/actuator C:
1	1: Signal from the terminal block XC.1
2	2: Signal from the terminal block XC.2
D	Terminal block for external sensor/actuator D:
1	1: Signal from the terminal block XD.1
2	2: Signal from the terminal block XD.2
E	Terminal block for external sensor/actuator E:
1	1: Signal from the terminal block XE.1
2	2: Signal from the terminal block XE.2
F	Terminal block for external sensor/actuator F:
1	1: Signal from the terminal block XF.1
2	2: Signal from the terminal block XF.2
G	Terminal block for external sensor/actuator G:
1	1: Signal from the terminal block XG.1
2	2: Signal from the terminal block XG.2
XA	Terminal block for wiring external sensor/actuator signals on terminal block A:
1	1: Signal to the terminal block A.1
2	2: Signal to the terminal block A.2
XB	Terminal block for wiring external sensor/actuator signals on terminal block B:
1	1: Signal to the terminal block B.1
2	2: Signal to the terminal block B.2
XC	Terminal block for wiring external sensor/actuator signals on terminal block C:
1	1: Signal to the terminal block C.1
2	2: Signal to the terminal block C.2
XD	Terminal block for wiring external sensor/actuator signals on terminal block D:
1	1: Signal to the terminal block D.1
2	2: Signal to the terminal block D.2
XE	Terminal block for wiring external sensor/actuator signals on terminal block E:
1	1: Signal to the terminal block E.1
2	2: Signal to the terminal block E.2
XF	Terminal block for wiring external sensor/actuator signals on terminal block F:
1	1: Signal to the terminal block F.1
2	2: Signal to the terminal block F.2
XG	Terminal block for wiring external sensor/actuator signals on terminal block G:
1	1: Signal to the terminal block G.1
2	2: Signal to the terminal block G.2

Table: Clamps

5.5.1 Wiring examples

Here you find examples, how to wire this module:

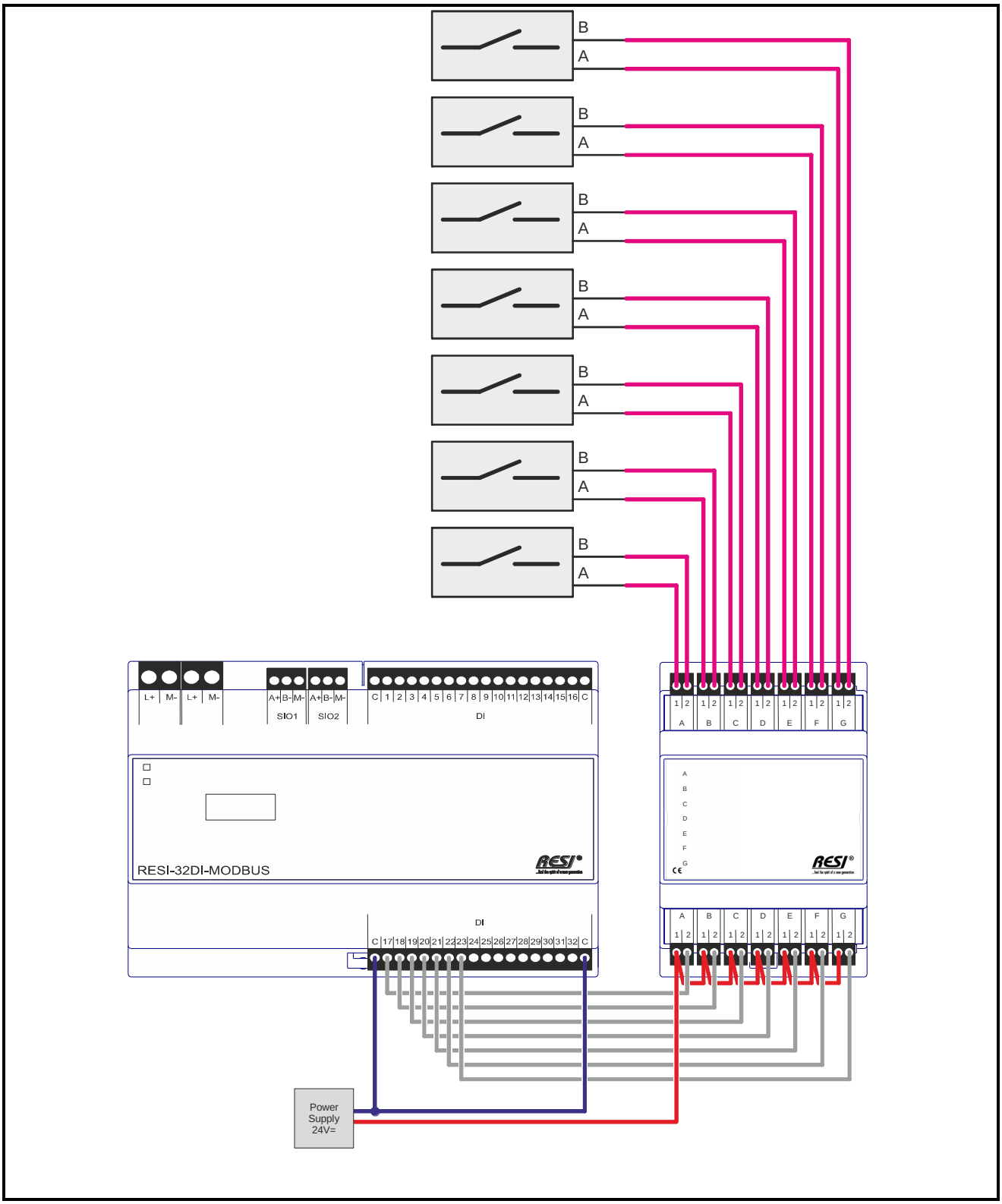


Illustration: Sample: Wiring of seven window or door contacts to our digital input module

5.6 Bridge module RESI-BR-1X7IO2-BK-OR for 7 sensors/actuators with 2 signals without power supply

This bridge module offers the following features:

- Seven removable 2pin terminal blocks in orange to connect external sensors or actuators
- Seven removable 2pin terminal blocks in black for cabling of the signals for all seven sensor/actuator terminal blocks
- Labelling of the terminal blocks on the cover of the module with standard lettering device
- Contact rating: max. 250Vac, max. 60Vdc, max. 5A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

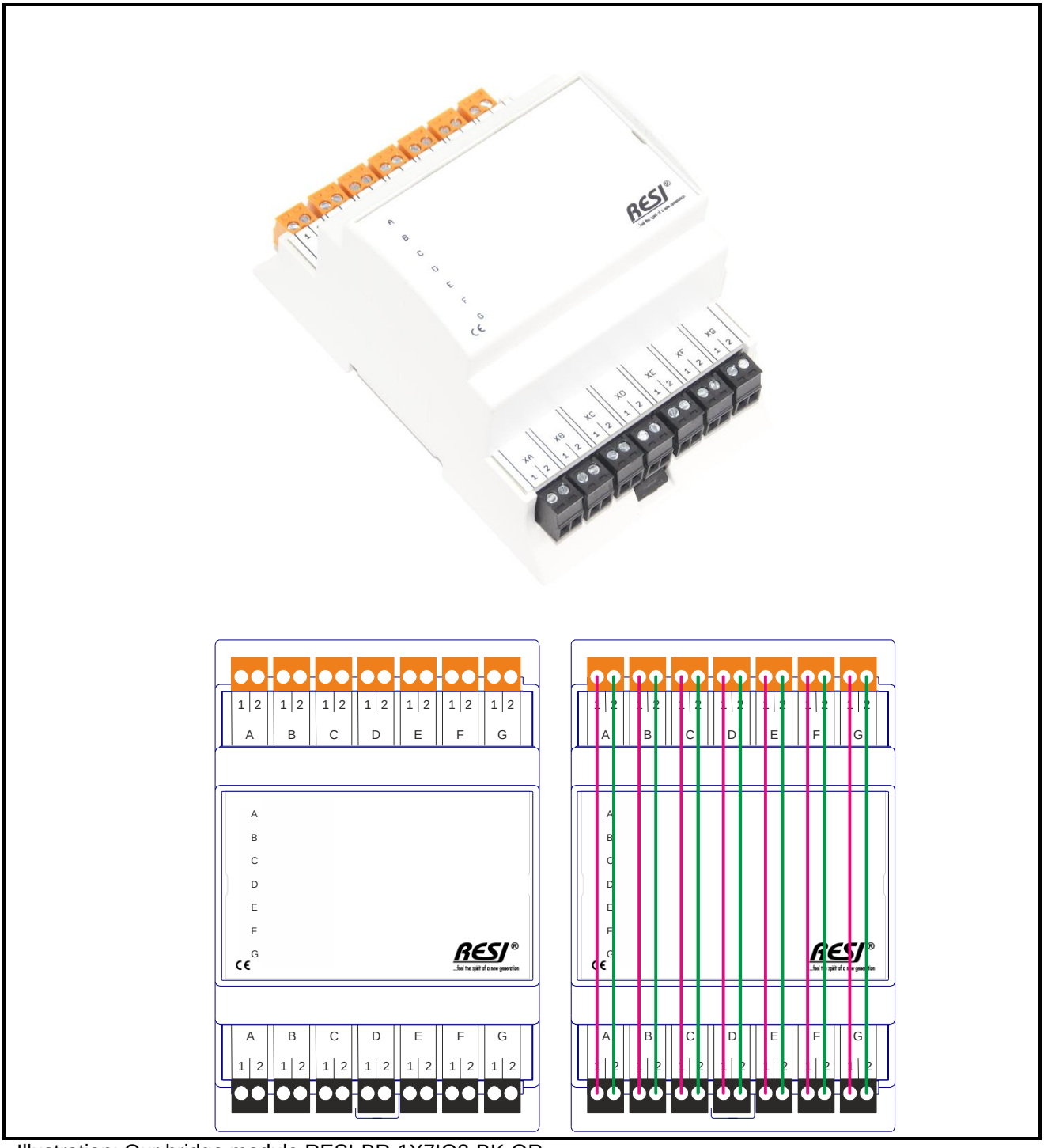


Illustration: Our bridge module RESI-BR-1X7IO2-BK-OR

Technical Data			
Contact rating			
Voltage	max. 250Vac max. 60Vdc	Storage temperature	-20...85 °C
Current	max. 5A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Clamps of sensors / actuators	7 terminal blocks	Dimension LxWxH	72mm x 110mm x 62mm
Terminal block type	Removable 2pin terminal block	Weight	150g
Terminal block color	Orange	Mounting	On DIN EN50022 rail or wall mounting
Clamps for signal wiring	7 terminal block		
Terminal block type	Removable 2pin terminal block		
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	150 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	RESI-BR-1X7IO2-BK-OR
A	Terminal block for external sensor/actuator A:
1	1: Signal from the terminal block XA.1
2	2: Signal from the terminal block XA.2
B	Terminal block for external sensor/actuator B:
1	1: Signal from the terminal block XB.1
2	2: Signal from the terminal block XB.2
C	Terminal block for external sensor/actuator C:
1	1: Signal from the terminal block XC.1
2	2: Signal from the terminal block XC.2
D	Terminal block for external sensor/actuator D:
1	1: Signal from the terminal block XD.1
2	2: Signal from the terminal block XD.2
E	Terminal block for external sensor/actuator E:
1	1: Signal from the terminal block XE.1
2	2: Signal from the terminal block XE.2
F	Terminal block for external sensor/actuator F:
1	1: Signal from the terminal block XF.1
2	2: Signal from the terminal block XF.2
G	Terminal block for external sensor/actuator G:
1	1: Signal from the terminal block XG.1
2	2: Signal from the terminal block XG.2
XA	Terminal block for wiring external sensor/actuator signals on terminal block A:
1	1: Signal to the terminal block A.1
2	2: Signal to the terminal block A.2
XB	Terminal block for wiring external sensor/actuator signals on terminal block B:
1	1: Signal to the terminal block B.1
2	2: Signal to the terminal block B.2
XC	Terminal block for wiring external sensor/actuator signals on terminal block C:
1	1: Signal to the terminal block C.1
2	2: Signal to the terminal block C.2
XD	Terminal block for wiring external sensor/actuator signals on terminal block D:
1	1: Signal to the terminal block D.1
2	2: Signal to the terminal block D.2
XE	Terminal block for wiring external sensor/actuator signals on terminal block E:
1	1: Signal to the terminal block E.1
2	2: Signal to the terminal block E.2
XF	Terminal block for wiring external sensor/actuator signals on terminal block F:
1	1: Signal to the terminal block F.1
2	2: Signal to the terminal block F.2
XG	Terminal block for wiring external sensor/actuator signals on terminal block G:
1	1: Signal to the terminal block G.1
2	2: Signal to the terminal block G.2

Table: Clamps

5.6.1 Wiring examples

Here you find examples, how to wire this module:

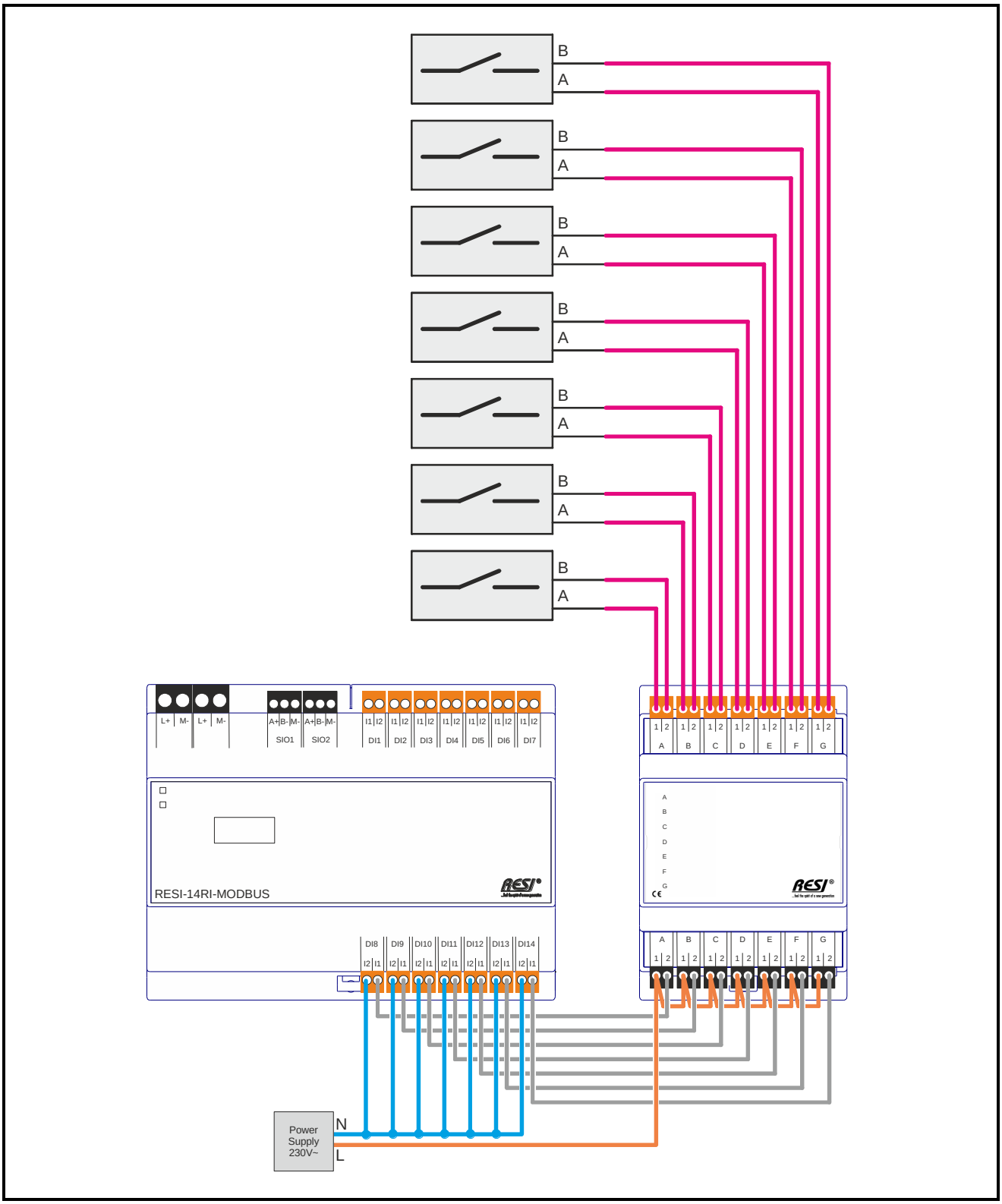


Illustration: Sample: Wiring of seven pushbutton switches or contacts for 230Vac to our relay input module

5.7 Bridge module RESI-BR-1X7IO2-BK-YE for 7 sensors/actuators with 2 signals without power supply

This bridge module offers the following features:

- Seven removable 2pin terminal blocks in yellow to connect external sensors or actuators
- Seven removable 2pin terminal blocks in black for cabling of the signals for all seven sensor/actuator terminal blocks
- Labelling of the terminal blocks on the cover of the module with standard lettering device
- Contact rating: max. 250Vac, max. 60Vdc, max. 5A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

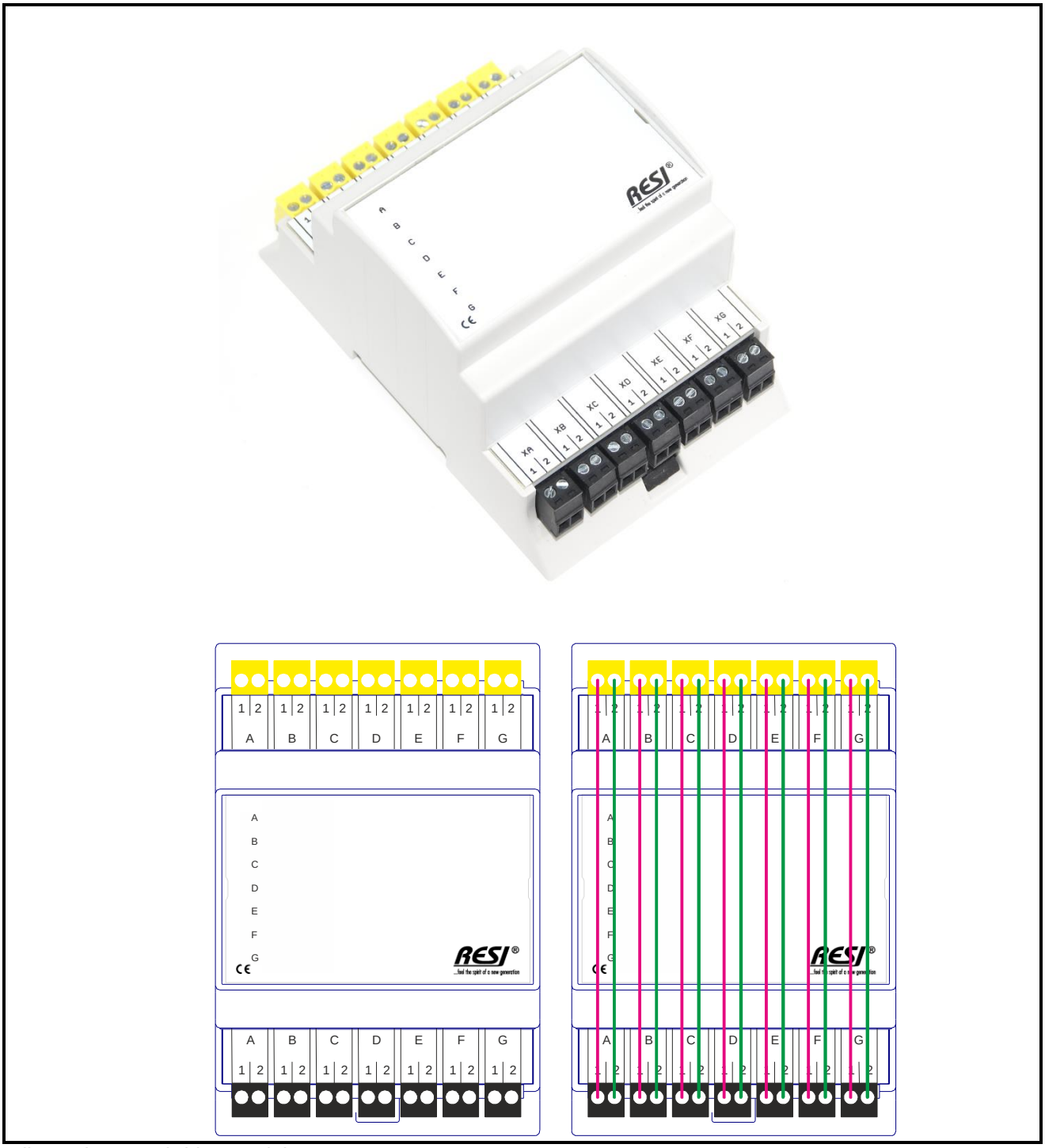


Illustration: Our bridge module RESI-BR-1X7IO2-BK-YE

Technical Data			
Contact rating			
Voltage	max. 250Vac max. 60Vdc	Storage temperature	-20...85 °C
Current	max. 5A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Clamps of sensors / actuators	7 terminal blocks	Dimension LxWxH	72mm x 110mm x 62mm
Terminal block type	Removable 2pin terminal block	Weight	150g
Terminal block color	Yellow	Mounting	On DIN EN50022 rail or wall mounting
Clamps for signal wiring	7 terminal block		
Terminal block type	Removable 2pin terminal block		
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	150 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	RESI-BR-1X7IO2-BK-YE
A	Terminal block for external sensor/actuator A:
1	1: Signal from the terminal block XA.1
2	2: Signal from the terminal block XA.2
B	Terminal block for external sensor/actuator B:
1	1: Signal from the terminal block XB.1
2	2: Signal from the terminal block XB.2
C	Terminal block for external sensor/actuator C:
1	1: Signal from the terminal block XC.1
2	2: Signal from the terminal block XC.2
D	Terminal block for external sensor/actuator D:
1	1: Signal from the terminal block XD.1
2	2: Signal from the terminal block XD.2
E	Terminal block for external sensor/actuator E:
1	1: Signal from the terminal block XE.1
2	2: Signal from the terminal block XE.2
F	Terminal block for external sensor/actuator F:
1	1: Signal from the terminal block XF.1
2	2: Signal from the terminal block XF.2
G	Terminal block for external sensor/actuator G:
1	1: Signal from the terminal block XG.1
2	2: Signal from the terminal block XG.2
XA	Terminal block for wiring external sensor/actuator signals on terminal block A:
1	1: Signal to the terminal block A.1
2	2: Signal to the terminal block A.2
XB	Terminal block for wiring external sensor/actuator signals on terminal block B:
1	1: Signal to the terminal block B.1
2	2: Signal to the terminal block B.2
XC	Terminal block for wiring external sensor/actuator signals on terminal block C:
1	1: Signal to the terminal block C.1
2	2: Signal to the terminal block C.2
XD	Terminal block for wiring external sensor/actuator signals on terminal block D:
1	1: Signal to the terminal block D.1
2	2: Signal to the terminal block D.2
XE	Terminal block for wiring external sensor/actuator signals on terminal block E:
1	1: Signal to the terminal block E.1
2	2: Signal to the terminal block E.2
XF	Terminal block for wiring external sensor/actuator signals on terminal block F:
1	1: Signal to the terminal block F.1
2	2: Signal to the terminal block F.2
XG	Terminal block for wiring external sensor/actuator signals on terminal block G:
1	1: Signal to the terminal block G.1
2	2: Signal to the terminal block G.2

Table: Clamps

5.7.1 Wiring examples

Here you find examples, how to wire this module:

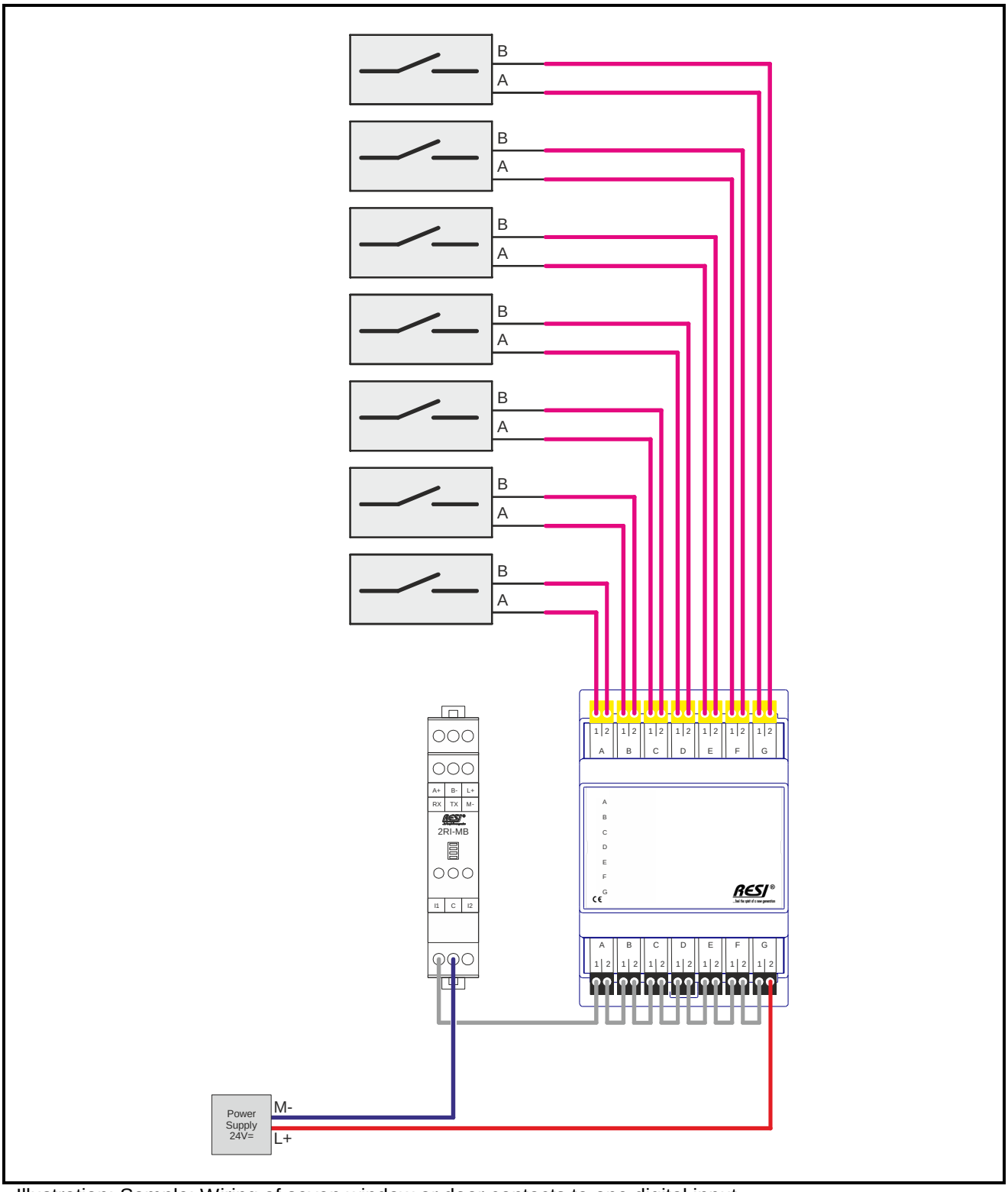


Illustration: Sample: Wiring of seven window or door contacts to one digital input

5.8 Bridge module RESI-BR-1X7IO2-BK-RD for 7 sensors/actuators with 2 signals without power supply

This bridge module offers the following features:

- Seven removable 2pin terminal blocks in red to connect external sensors or actuators
- Seven removable 2pin terminal blocks in black for cabling of the signals for all seven sensor/actuator terminal blocks
- Labelling of the terminal blocks on the cover of the module with standard lettering device
- Contact rating: max. 250Vac, max. 60Vdc, max. 5A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

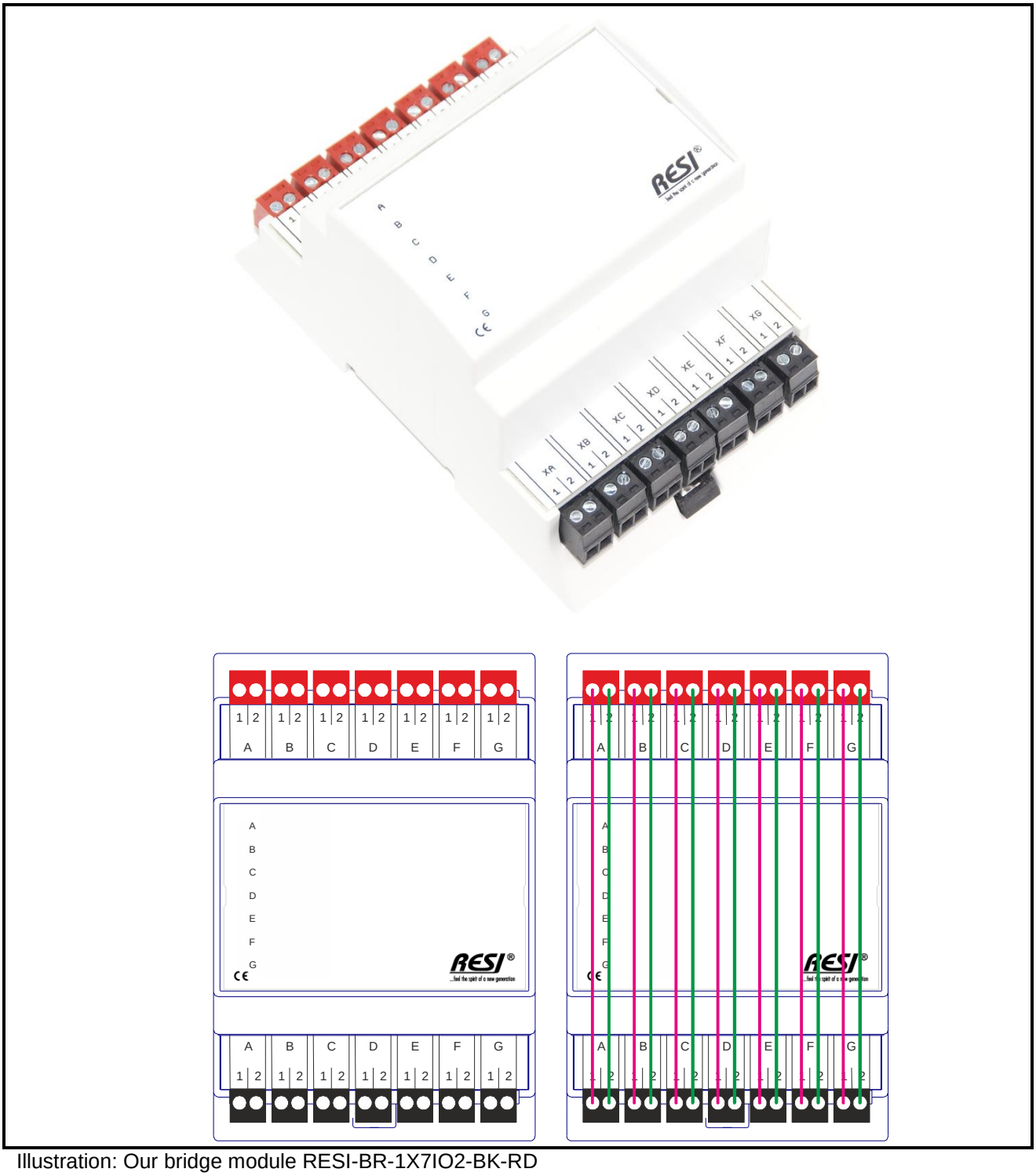


Illustration: Our bridge module RESI-BR-1X7IO2-BK-RD

Technical Data			
Contact rating			
Voltage	max. 250Vac max. 60Vdc	Storage temperature	-20...85 °C
Current	max. 5A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Clamps of sensors / actuators	7 terminal blocks	Dimension LxWxH	72mm x 110mm x 62mm
Terminal block type	Removable 2pin terminal block	Weight	150g
Terminal block color	Red	Mounting	On DIN EN50022 rail or wall mounting
Clamps for signal wiring	7 terminal block		
Terminal block type	Removable 2pin terminal block		
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	150 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	RESI-BR-1X7IO2-BK-RD
A	Terminal block for external sensor/actuator A:
1	1: Signal from the terminal block XA.1
2	2: Signal from the terminal block XA.2
B	Terminal block for external sensor/actuator B:
1	1: Signal from the terminal block XB.1
2	2: Signal from the terminal block XB.2
C	Terminal block for external sensor/actuator C:
1	1: Signal from the terminal block XC.1
2	2: Signal from the terminal block XC.2
D	Terminal block for external sensor/actuator D:
1	1: Signal from the terminal block XD.1
2	2: Signal from the terminal block XD.2
E	Terminal block for external sensor/actuator E:
1	1: Signal from the terminal block XE.1
2	2: Signal from the terminal block XE.2
F	Terminal block for external sensor/actuator F:
1	1: Signal from the terminal block XF.1
2	2: Signal from the terminal block XF.2
G	Terminal block for external sensor/actuator G:
1	1: Signal from the terminal block XG.1
2	2: Signal from the terminal block XG.2
XA	Terminal block for wiring external sensor/actuator signals on terminal block A:
1	1: Signal to the terminal block A.1
2	2: Signal to the terminal block A.2
XB	Terminal block for wiring external sensor/actuator signals on terminal block B:
1	1: Signal to the terminal block B.1
2	2: Signal to the terminal block B.2
XC	Terminal block for wiring external sensor/actuator signals on terminal block C:
1	1: Signal to the terminal block C.1
2	2: Signal to the terminal block C.2
XD	Terminal block for wiring external sensor/actuator signals on terminal block D:
1	1: Signal to the terminal block D.1
2	2: Signal to the terminal block D.2
XE	Terminal block for wiring external sensor/actuator signals on terminal block E:
1	1: Signal to the terminal block E.1
2	2: Signal to the terminal block E.2
XF	Terminal block for wiring external sensor/actuator signals on terminal block F:
1	1: Signal to the terminal block F.1
2	2: Signal to the terminal block F.2
XG	Terminal block for wiring external sensor/actuator signals on terminal block G:
1	1: Signal to the terminal block G.1
2	2: Signal to the terminal block G.2

Table: Clamps

5.8.1 Wiring examples

Here you find examples, how to wire this module:

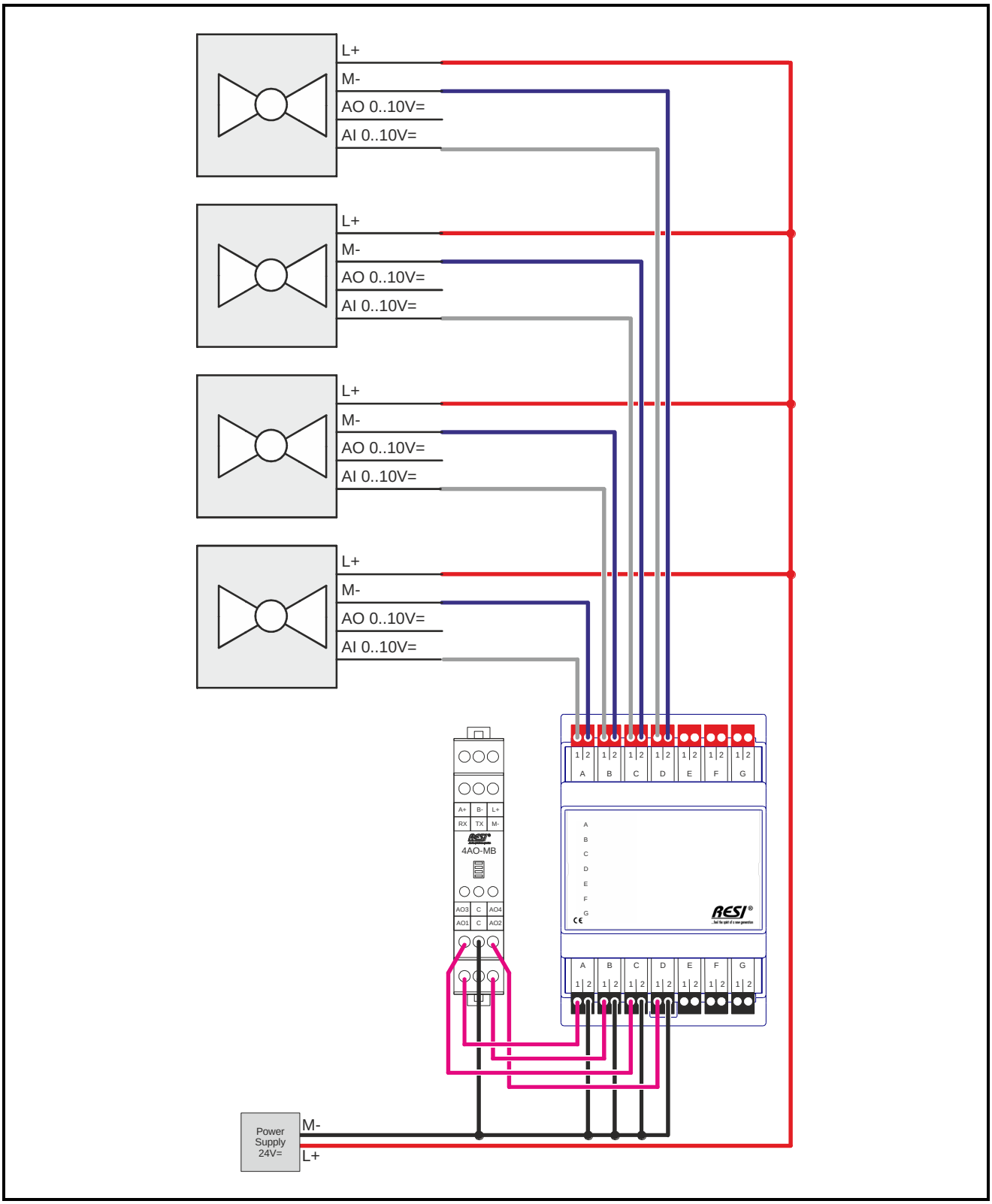


Illustration: Sample: Wiring of four valves to our analog output module

5.9 Bridge module RESI-BR-1X7IO2-BK-BL for 7 sensors/actuators with 2 signals without power supply

This bridge module offers the following features:

- Seven removable 2pin terminal blocks in blue to connect external sensors or actuators
- Seven removable 2pin terminal blocks in black for cabling of the signals for all seven sensor/actuator terminal blocks
- Labelling of the terminal blocks on the cover of the module with standard lettering device
- Contact rating: max. 250Vac, max. 60Vdc, max. 5A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

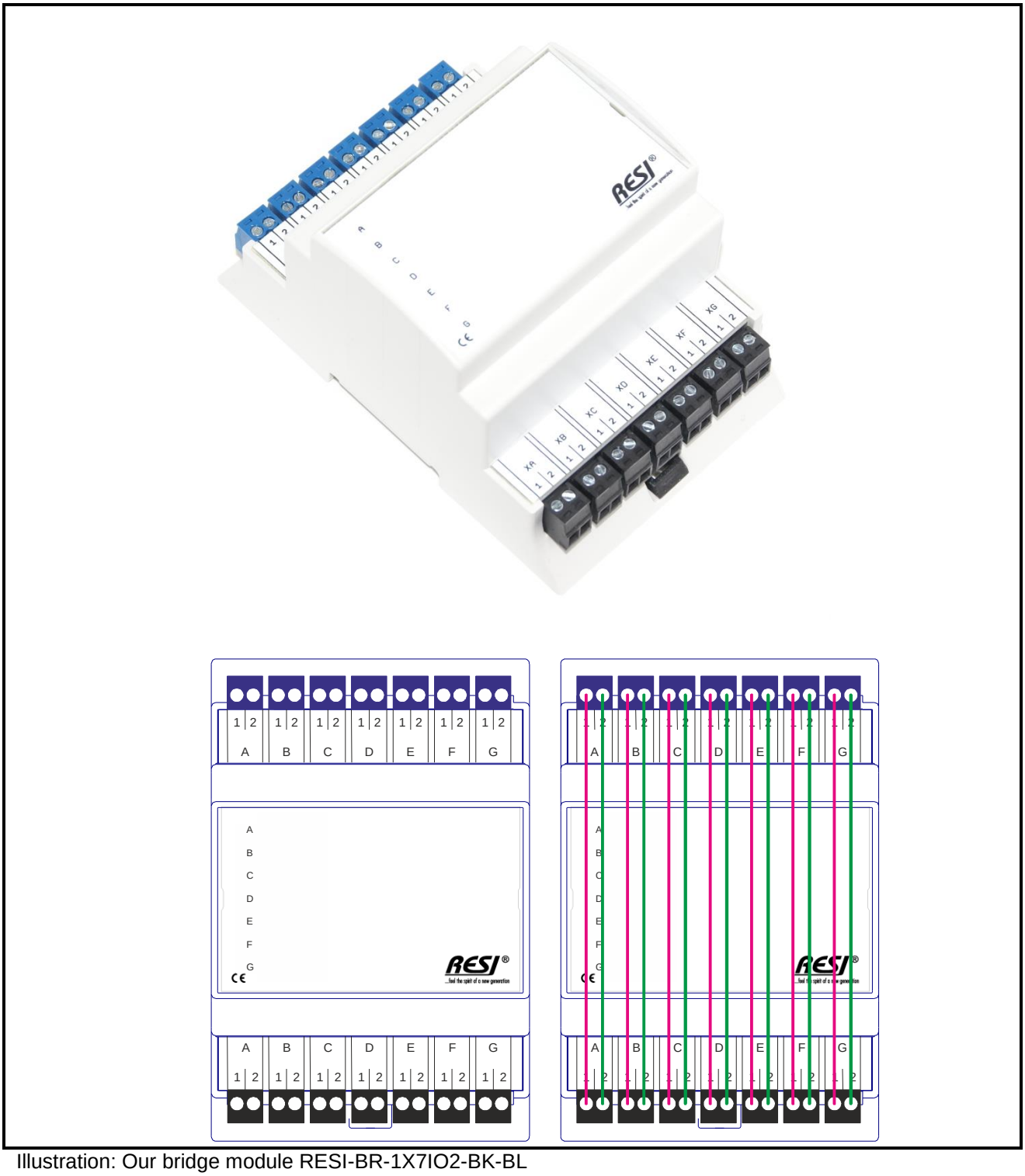


Illustration: Our bridge module RESI-BR-1X7IO2-BK-BL

Technical Data			
Contact rating			
Voltage	max. 250Vac max. 60Vdc	Storage temperature	-20...85 °C
Current	max. 5A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Clamps of sensors / actuators	7 terminal blocks	Dimension LxWxH	72mm x 110mm x 62mm
Terminal block type	Removable 2pin terminal block	Weight	150g
Terminal block color	Blue	Mounting	On DIN EN50022 rail or wall mounting
Clamps for signal wiring	7 terminal block		
Terminal block type	Removable 2pin terminal block		
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	150 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	RESI-BR-1X7IO2-BK-BL
A	Terminal block for external sensor/actuator A:
1	1: Signal from the terminal block XA.1
2	2: Signal from the terminal block XA.2
B	Terminal block for external sensor/actuator B:
1	1: Signal from the terminal block XB.1
2	2: Signal from the terminal block XB.2
C	Terminal block for external sensor/actuator C:
1	1: Signal from the terminal block XC.1
2	2: Signal from the terminal block XC.2
D	Terminal block for external sensor/actuator D:
1	1: Signal from the terminal block XD.1
2	2: Signal from the terminal block XD.2
E	Terminal block for external sensor/actuator E:
1	1: Signal from the terminal block XE.1
2	2: Signal from the terminal block XE.2
F	Terminal block for external sensor/actuator F:
1	1: Signal from the terminal block XF.1
2	2: Signal from the terminal block XF.2
G	Terminal block for external sensor/actuator G:
1	1: Signal from the terminal block XG.1
2	2: Signal from the terminal block XG.2
XA	Terminal block for wiring external sensor/actuator signals on terminal block A:
1	1: Signal to the terminal block A.1
2	2: Signal to the terminal block A.2
XB	Terminal block for wiring external sensor/actuator signals on terminal block B:
1	1: Signal to the terminal block B.1
2	2: Signal to the terminal block B.2
XC	Terminal block for wiring external sensor/actuator signals on terminal block C:
1	1: Signal to the terminal block C.1
2	2: Signal to the terminal block C.2
XD	Terminal block for wiring external sensor/actuator signals on terminal block D:
1	1: Signal to the terminal block D.1
2	2: Signal to the terminal block D.2
XE	Terminal block for wiring external sensor/actuator signals on terminal block E:
1	1: Signal to the terminal block E.1
2	2: Signal to the terminal block E.2
XF	Terminal block for wiring external sensor/actuator signals on terminal block F:
1	1: Signal to the terminal block F.1
2	2: Signal to the terminal block F.2
XG	Terminal block for wiring external sensor/actuator signals on terminal block G:
1	1: Signal to the terminal block G.1
2	2: Signal to the terminal block G.2

Table: Clamps

5.9.1 Wiring examples

Here you find examples, how to wire this module:

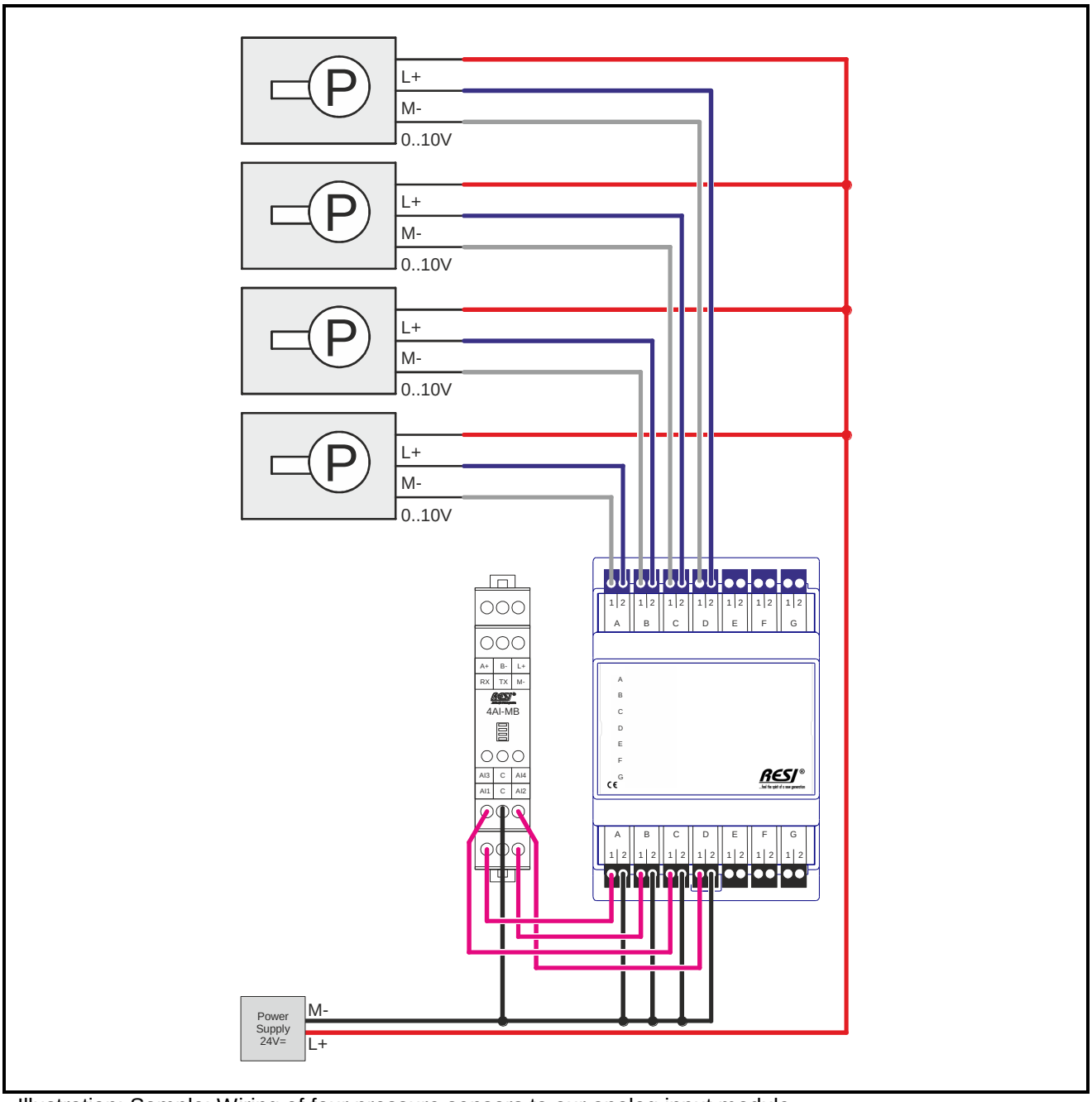


Illustration: Sample: Wiring of four pressure sensors to our analog input module

5.10 Bridge module RESI-BR-2X4OR2 with 2 groups with 4 2pin terminal blocks in orange

This bridge module offers the following features:

- Two groups with 4 removable 2pin terminal blocks in orange each
- Contact rating: max. 250Vac, max. 60Vdc, max. 16A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

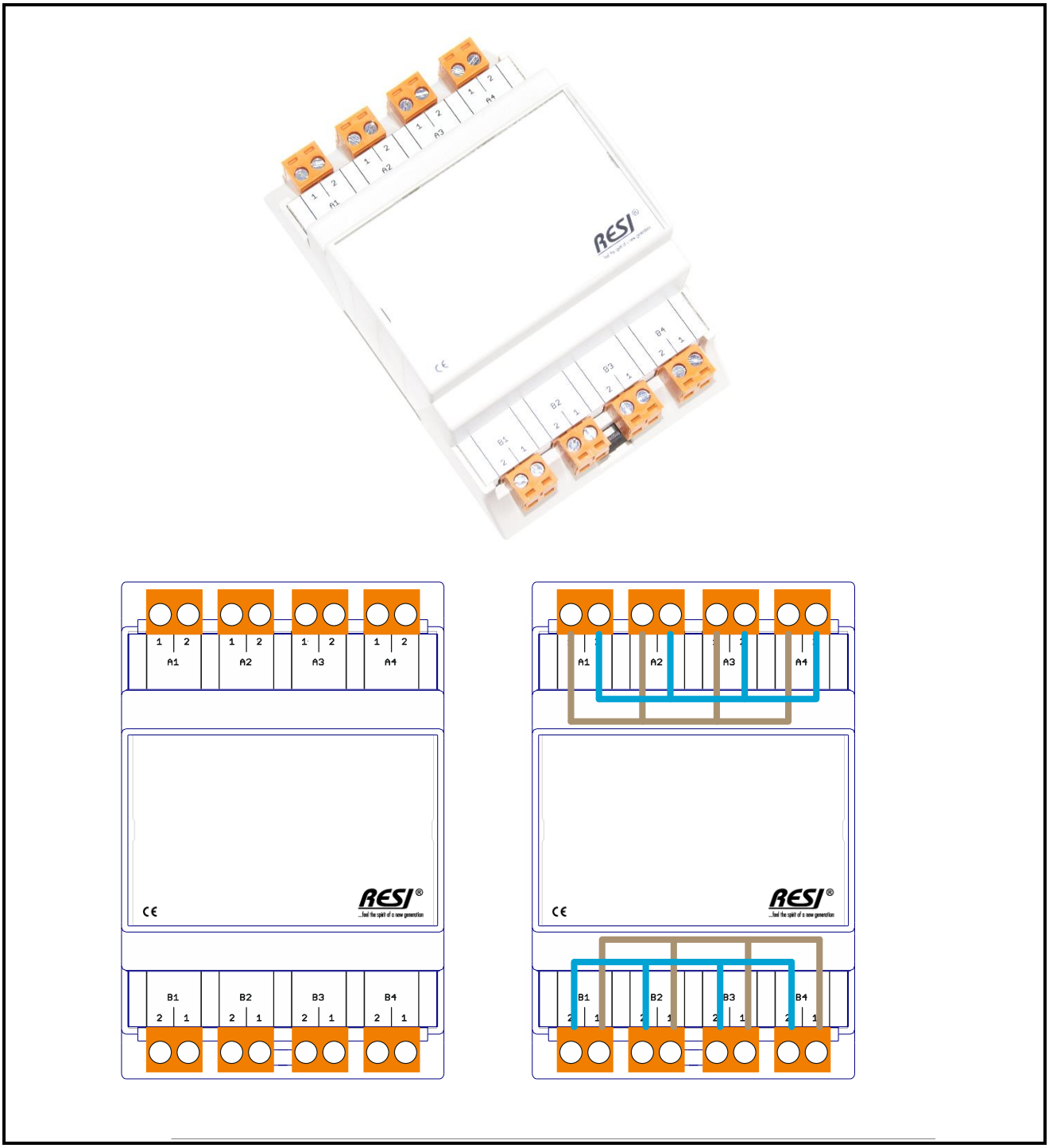


Illustration: Our bridge module RESI-BR-2X4OR2

Technical Data			
Contact rating			
Voltage	max. 250Vac max. 60Vdc	Storage temperature	-20...85 °C
Current	max. 16A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Number of groups	2 groups	Dimension LxWxH	72mm x 110mm x 62mm
Number of bridged terminal blocks per group	4 terminal blocks	Weight	135g
Terminal block type	Removable 2pin terminal block	Mounting	On DIN EN50022 rail or wall mounting
Terminal block color	orange		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	135 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	**RESI-BR-2X4OR2**
A1..A4 1 2	Bridged terminal block 1: 1: All pins with 1 are internally combined together (bridged) 2: All pins with 2 are internally combined together (bridged)
B1..B4 1 2	Bridged terminal block 2: 1: All pins with 1 are internally combined together (bridged) 2: All pins with 2 are internally combined together (bridged)

Table: Clamps

5.10.1 Wiring examples

Here you find examples, how to wire this module:

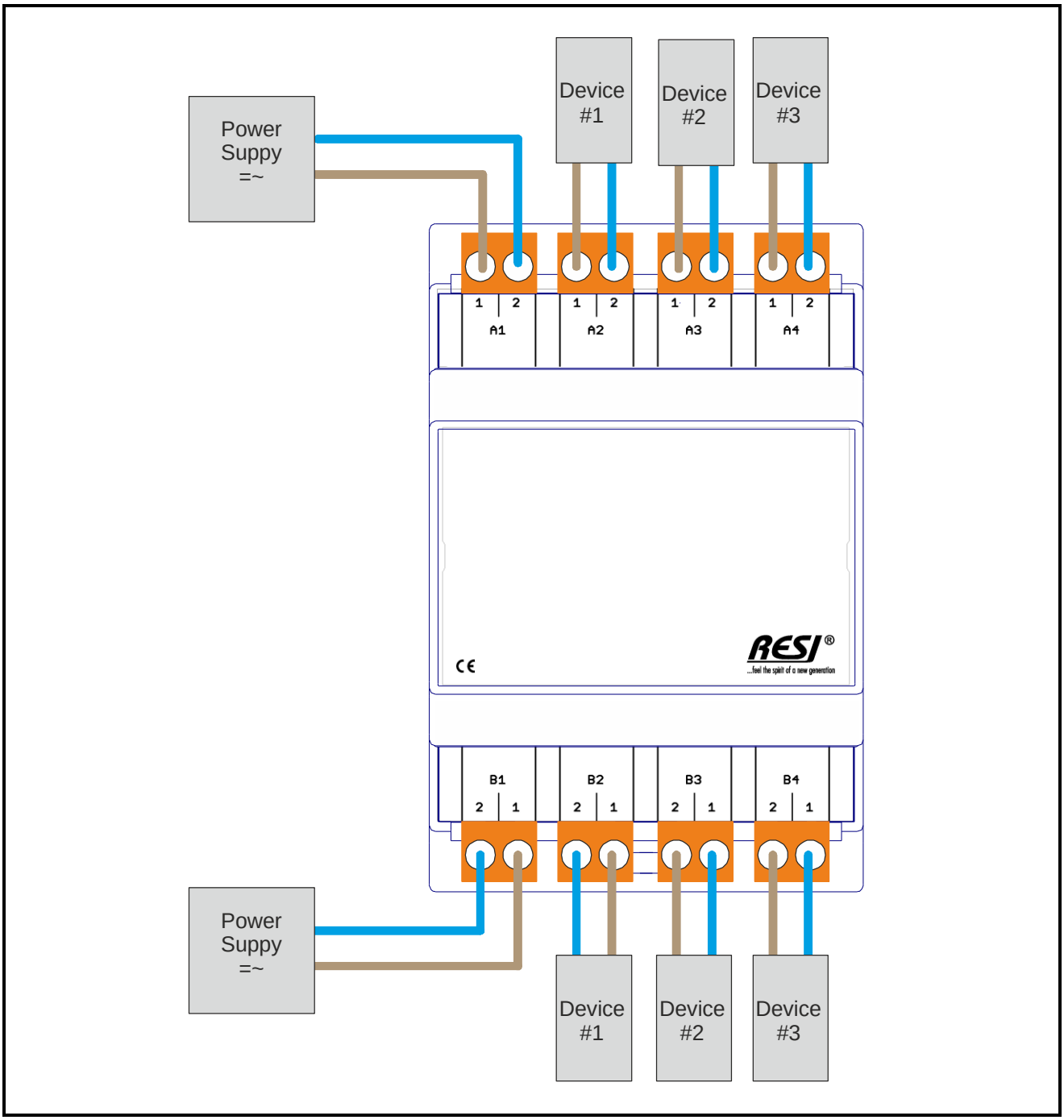


Illustration: Sample: Distribution of two power supplies

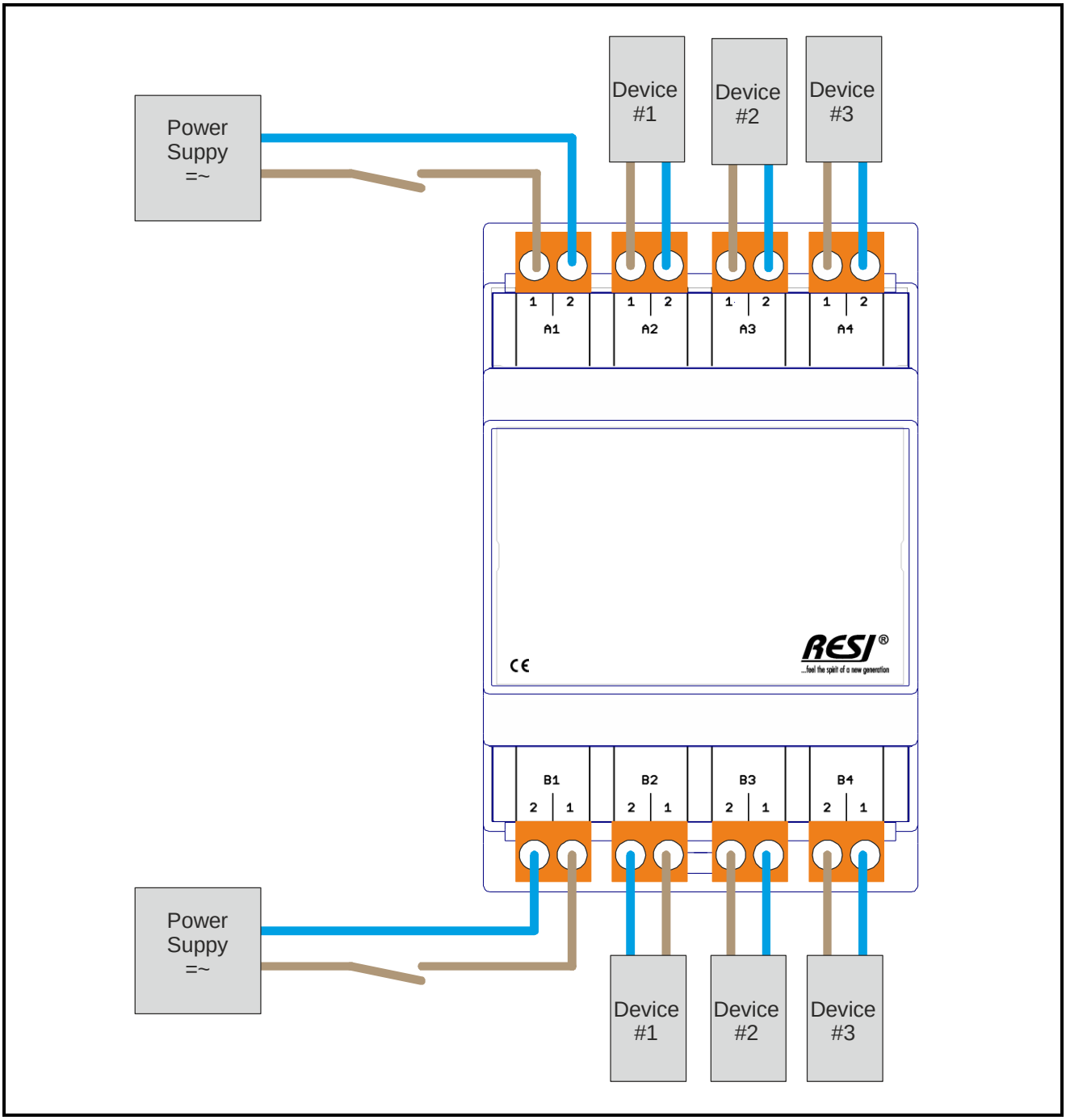


Illustration: Sample: Distribution of two signals of an actuator

5.11 Bridge module RESI-BR-1X8OR2 with 1 group with 8 2pin terminal blocks in orange

This bridge module offers the following features:

- One group with 8 removable 2pin terminal blocks in orange each
- Contact rating: max. 250Vac, max. 60Vdc, max. 16A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

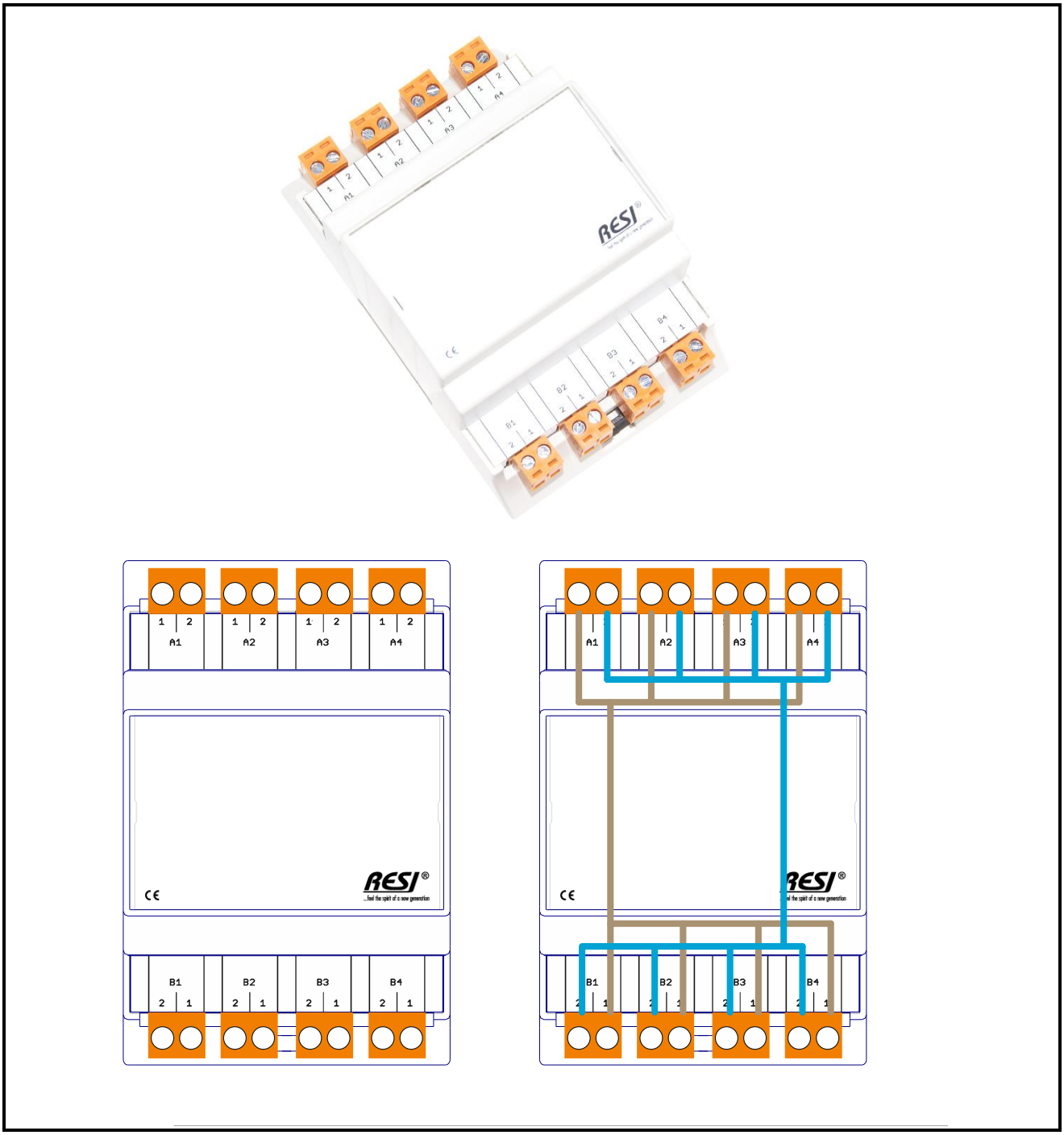


Illustration: Our bridge module RESI-BR-1X8OR2

Technical Data			
Contact rating			
Voltage	max. 250Vac max. 60Vdc	Storage temperature	-20...85 °C
Current	max. 16A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Number of groups	1 group	Dimension LxWxH	72mm x 110mm x 62mm
Number of bridged terminal blocks per group	8 terminal blocks	Weight	135g
Terminal block type	Removable 2pin terminal block	Mounting	On DIN EN50022 rail or wall mounting
Terminal block color	orange		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	135 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	**RESI-BR-1X8OR2**
A1..A4 and B1..B4 1 2	Bridged terminal block: 1: All pins with 1 are internally combined together (bridged) 2: All pins with 2 are internally combined together (bridged)

Table: Clamps

5.11.1 Wiring examples

Here you find examples, how to wire this module:

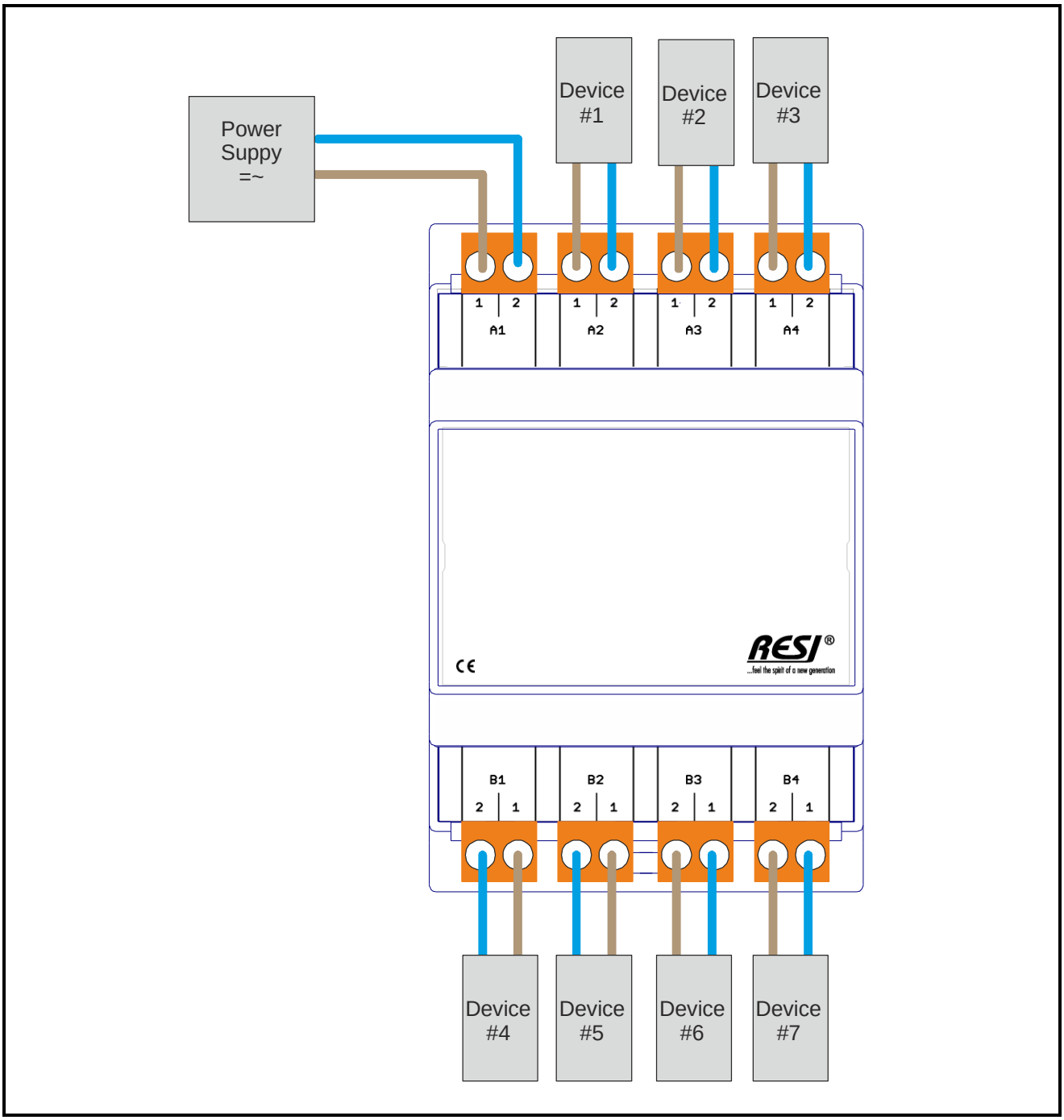


Illustration: Sample: Distribution of one power supply

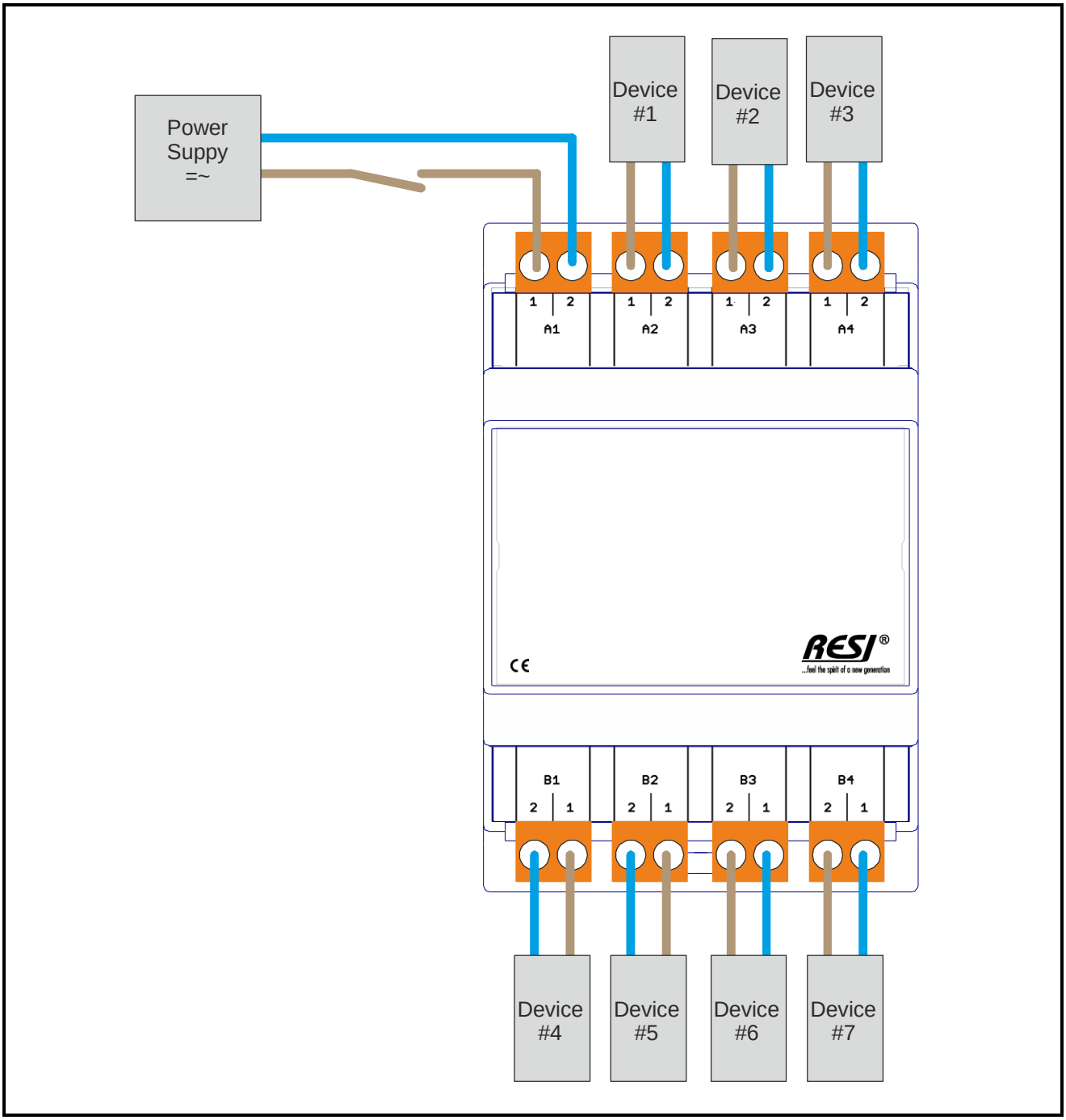


Illustration: Sample: Distribution of one signal of an actuator

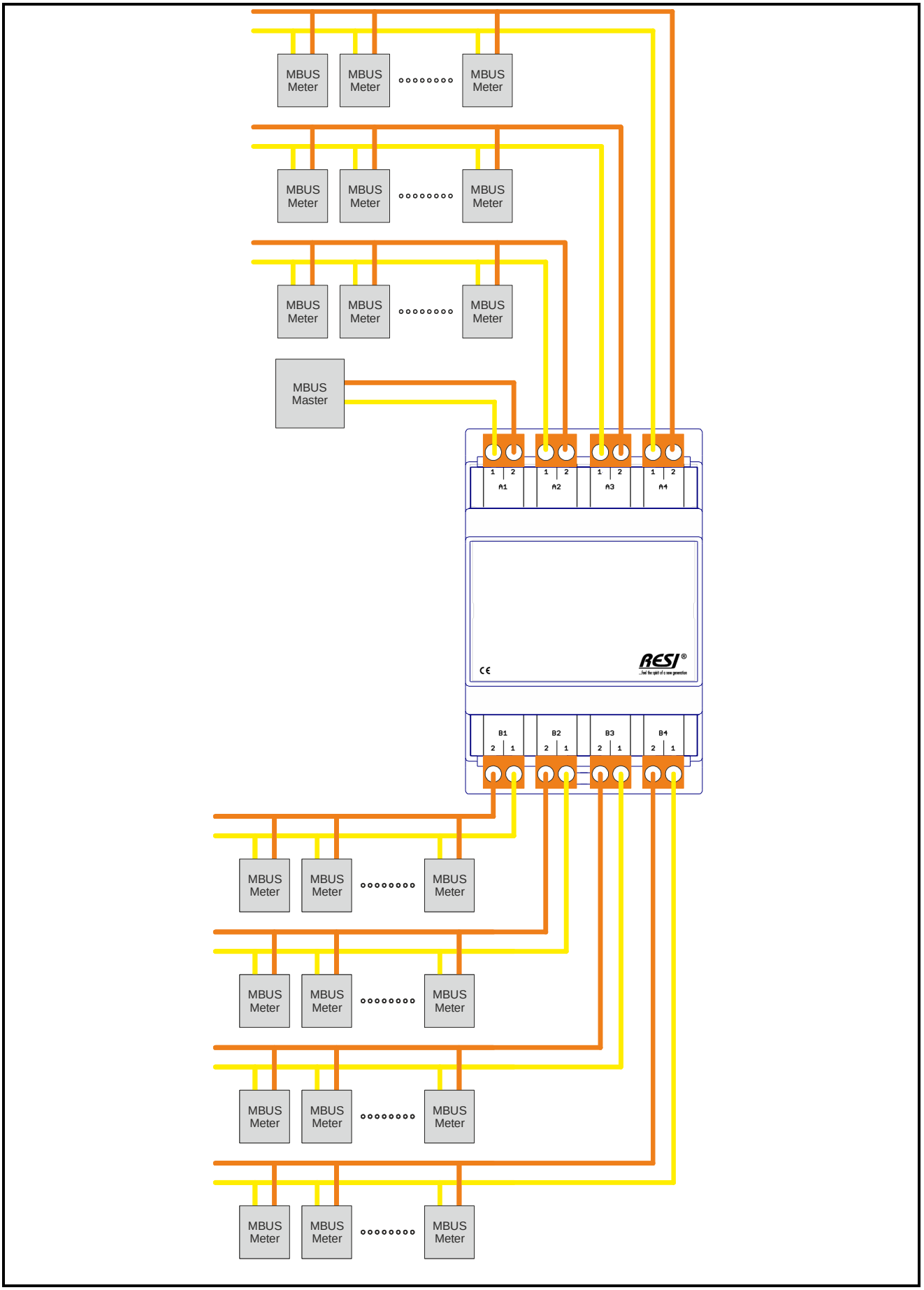


Illustration: Sample: Distribution of a bus system e.g. MBUS

5.12 Bridge module RESI-BR-2X4BK2 with 2 groups with 4 2pin terminal blocks in black

This bridge module offers the following features:

- Two groups with 4 removable 2pin terminal blocks in black each
- Contact rating: max. 250Vac, max. 60Vdc, max. 16A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

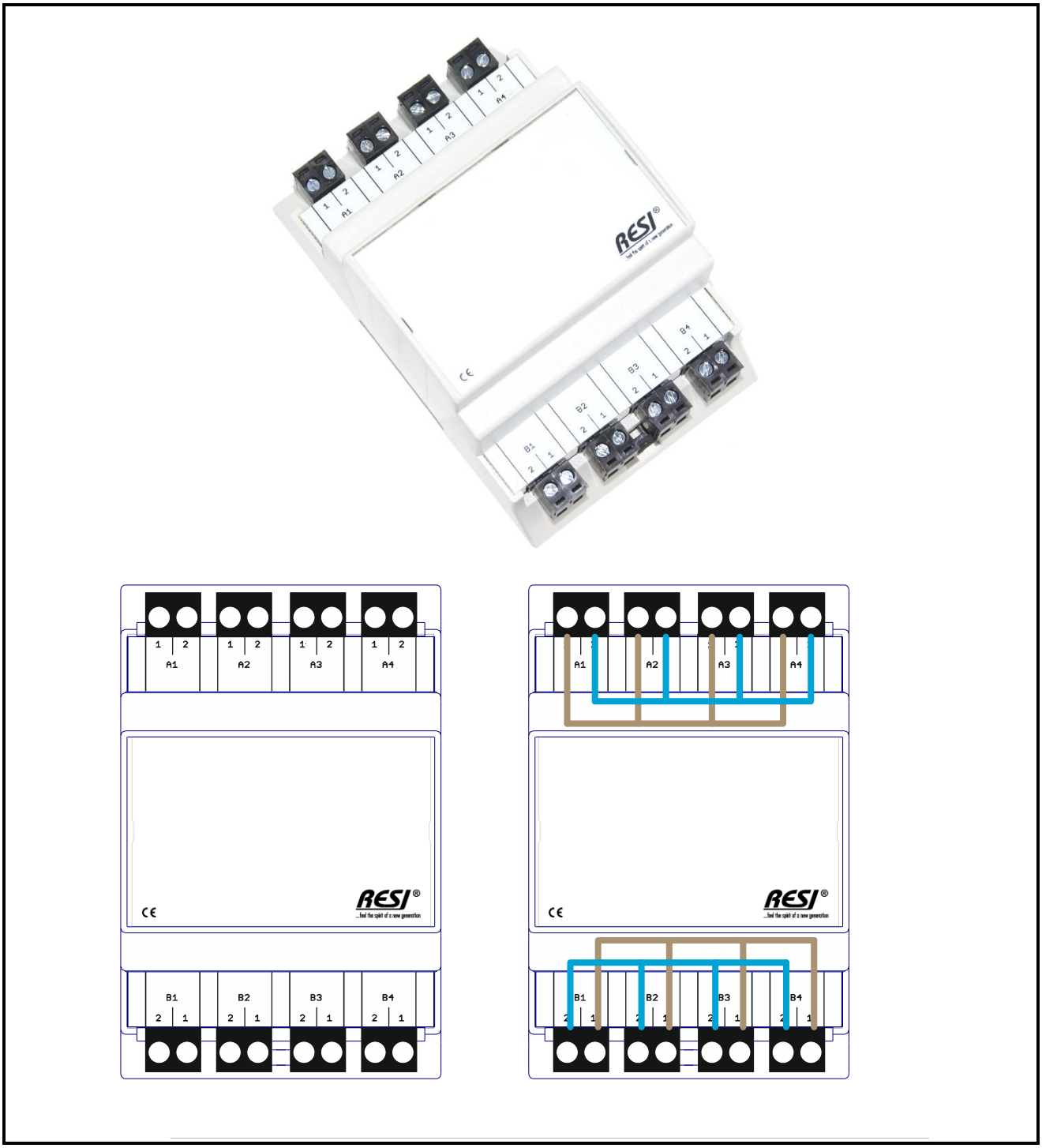


Illustration: Our bridge module RESI-BR-2X4BK2

Technical Data			
Contact rating			
Voltage	max. 250Vac max. 60Vdc	Storage temperature	-20...85 °C
Current	max. 16A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Number of groups	2 groups	Dimension LxWxH	72mm x 110mm x 62mm
Number of bridged terminal blocks per group	4 terminal blocks	Weight	135g
Terminal block type	Removable 2pin terminal block	Mounting	On DIN EN50022 rail or wall mounting
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	135 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	**RESI-BR-2X4BK2**
A1..A4 1 2	Bridged terminal block 1: 1: All pins with 1 are internally combined together (bridged) 2: All pins with 2 are internally combined together (bridged)
B1..B4 1 2	Bridged terminal block 2: 1: All pins with 1 are internally combined together (bridged) 2: All pins with 2 are internally combined together (bridged)

Table: Clamps

5.12.1 Wiring examples

Here you find examples, how to wire this module:

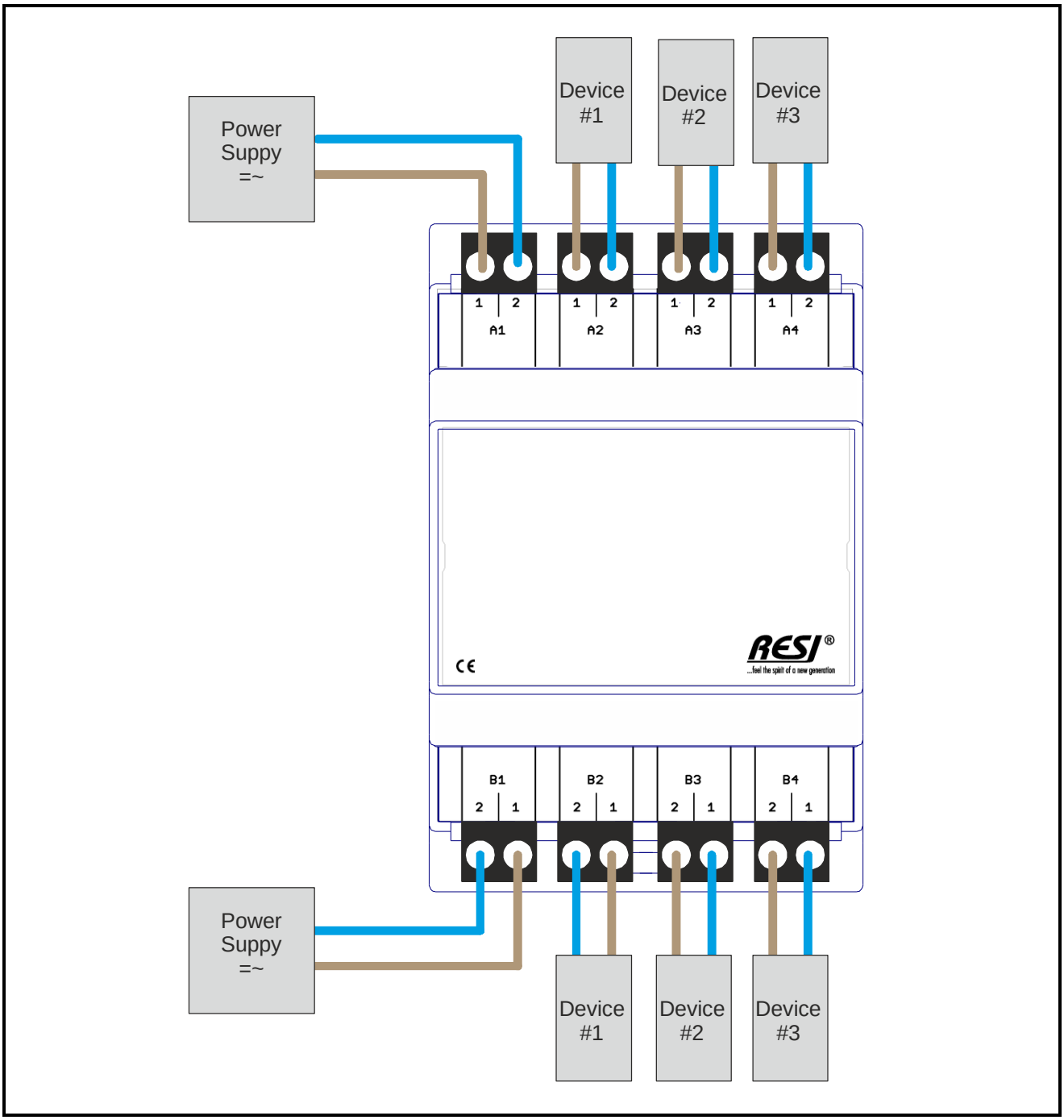


Illustration: Sample: Distribution of two power supplies

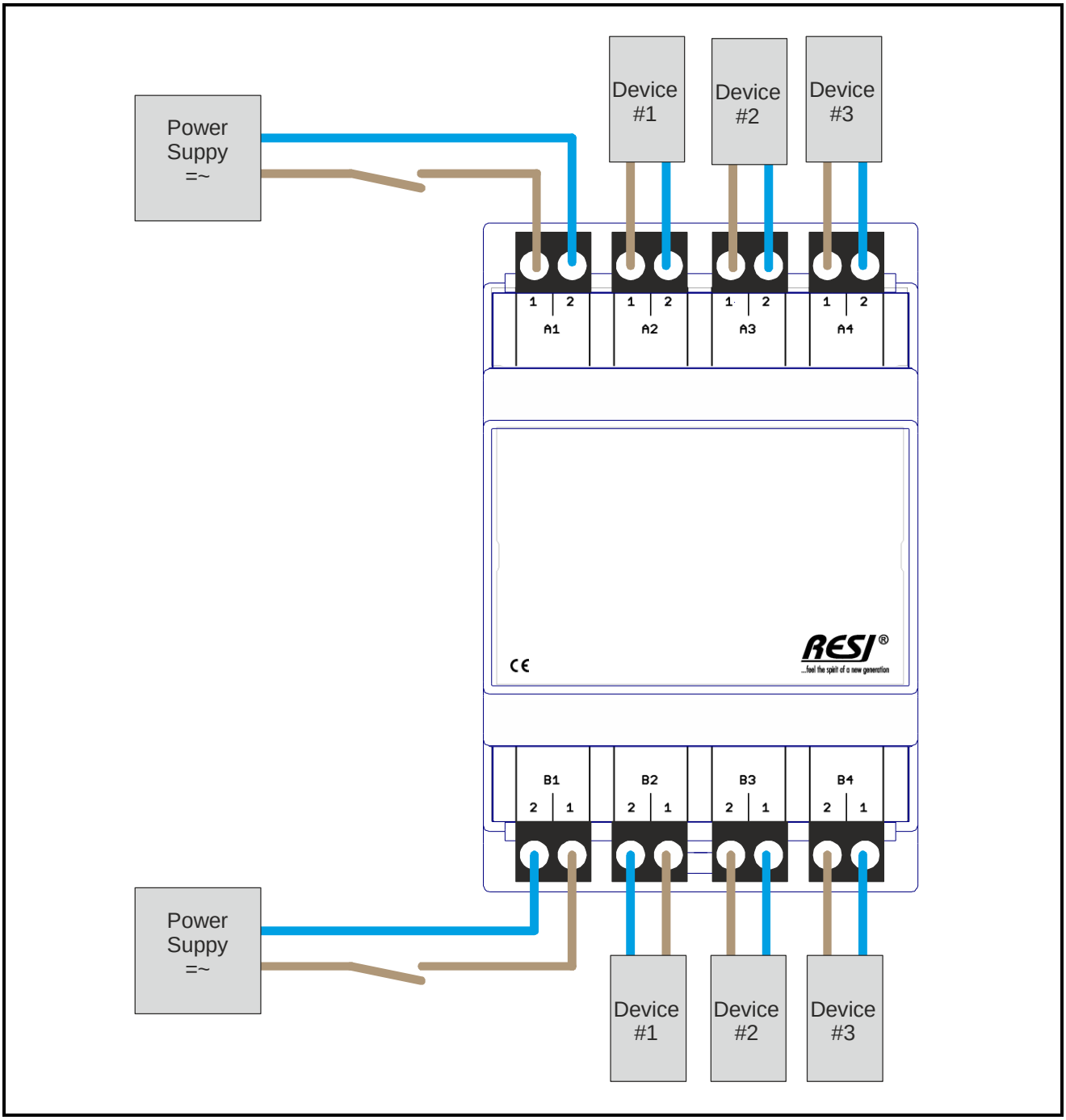


Illustration: Sample: Distribution of two signals of an actuator

5.13 Bridge module RESI-BR-1X8BK2 with 1 group with 8 2pin terminal blocks in black

This bridge module offers the following features:

- One group with 8 removable 2pin terminal blocks in black each
- Contact rating: max. 250Vac, max. 60Vdc, max. 16A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

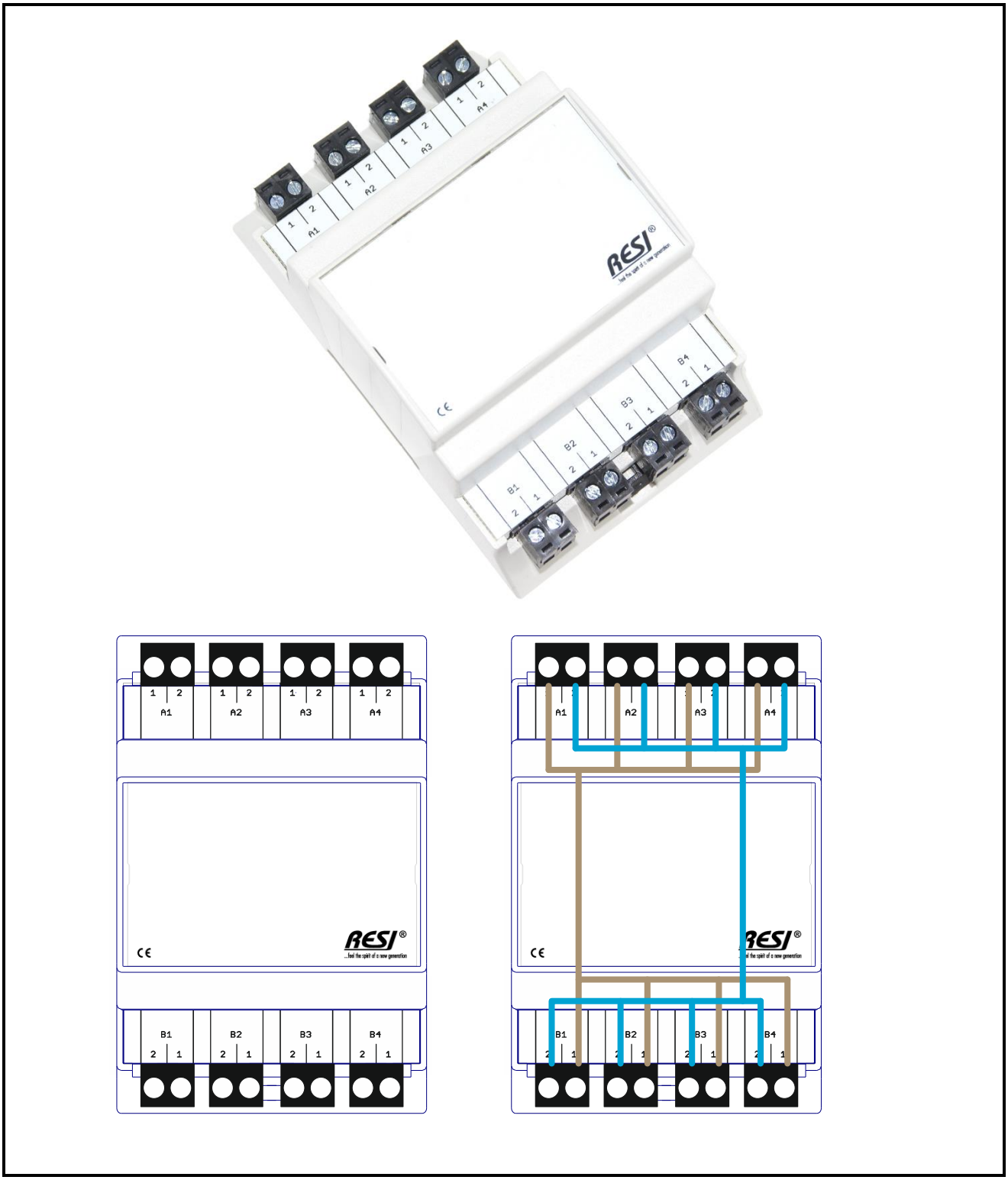


Illustration: Our bridge module RESI-BR-1X8BK2

Technical Data			
Contact rating			
Voltage	max. 250Vac max. 60Vdc	Storage temperature	-20...85 °C
Current	max. 16A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Number of groups	1 group	Dimension LxWxH	72mm x 110mm x 62mm
Number of bridged terminal blocks per group	8 terminal blocks	Weight	135g
Terminal block type	Removable 2pin terminal block	Mounting	On DIN EN50022 rail or wall mounting
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	135 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	**RESI-BR-1X8BK2**
A1..A4 and B1..B4	Bridged terminal block:
1	1: All pins with 1 are internally combined together (bridged)
2	2: All pins with 2 are internally combined together (bridged)

Table: Clamps

5.13.1 Wiring examples

Here you find examples, how to wire this module:

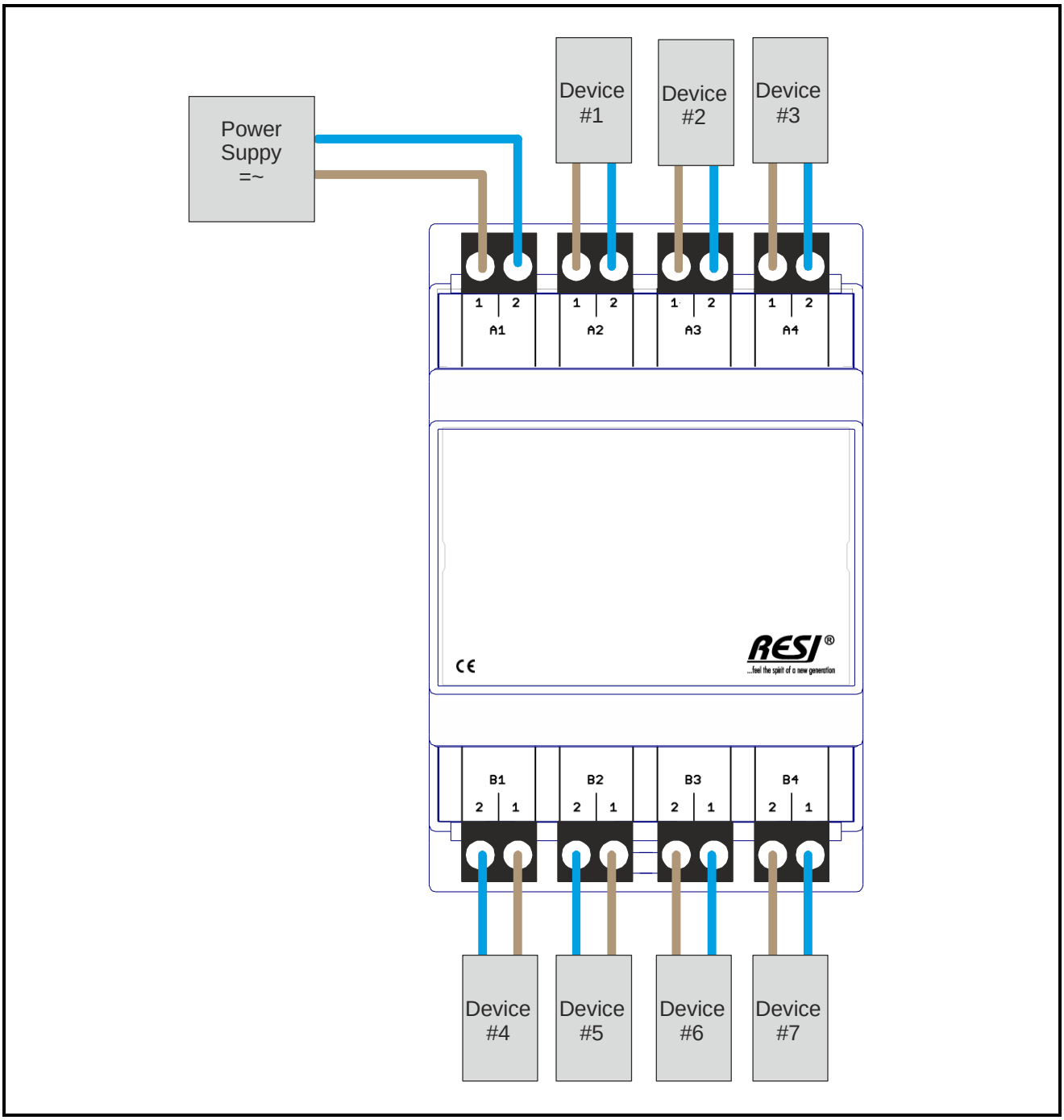


Illustration: Sample: Distribution of one power supply

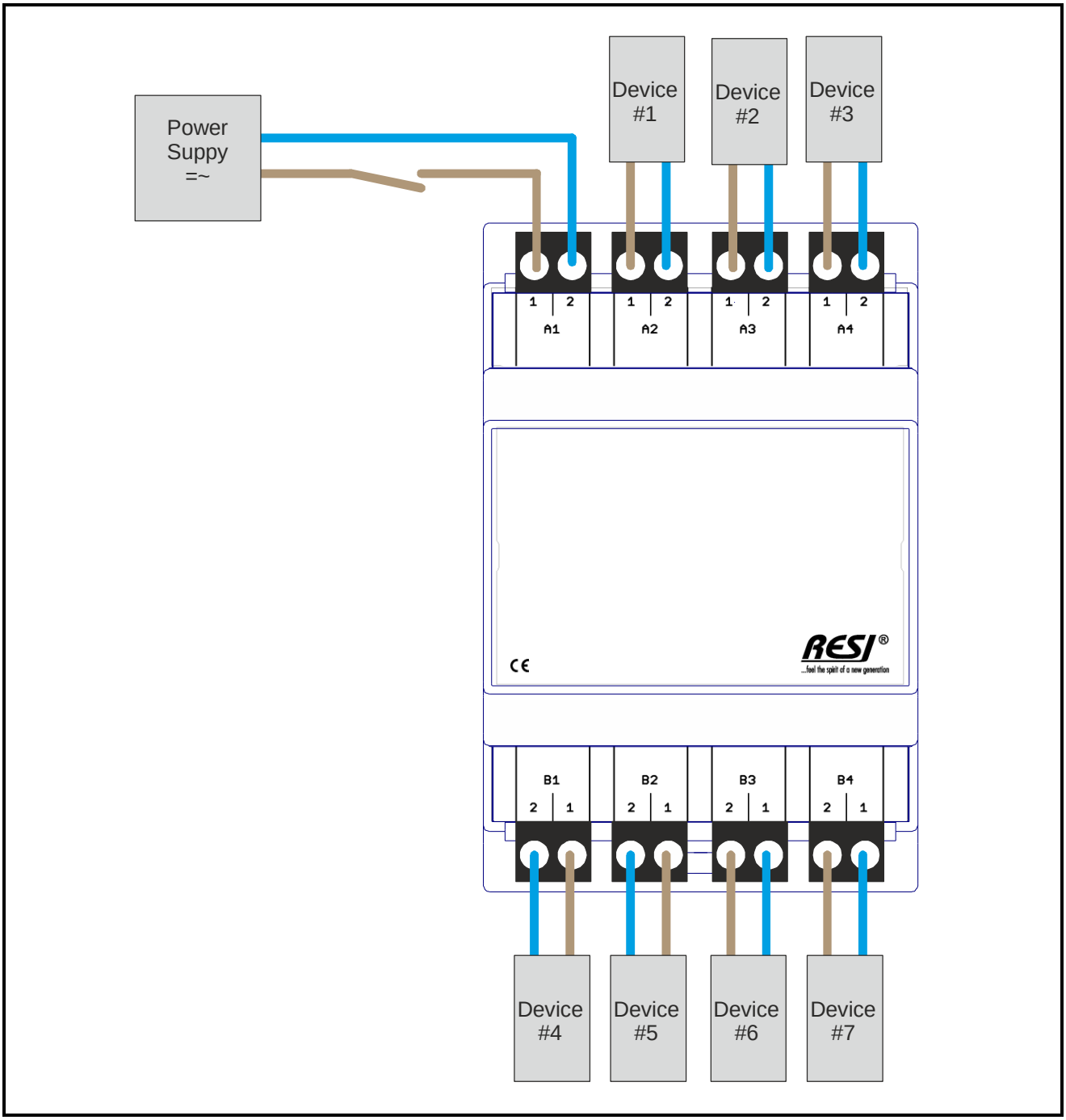


Illustration: Sample: Distribution of one signal of an actuator

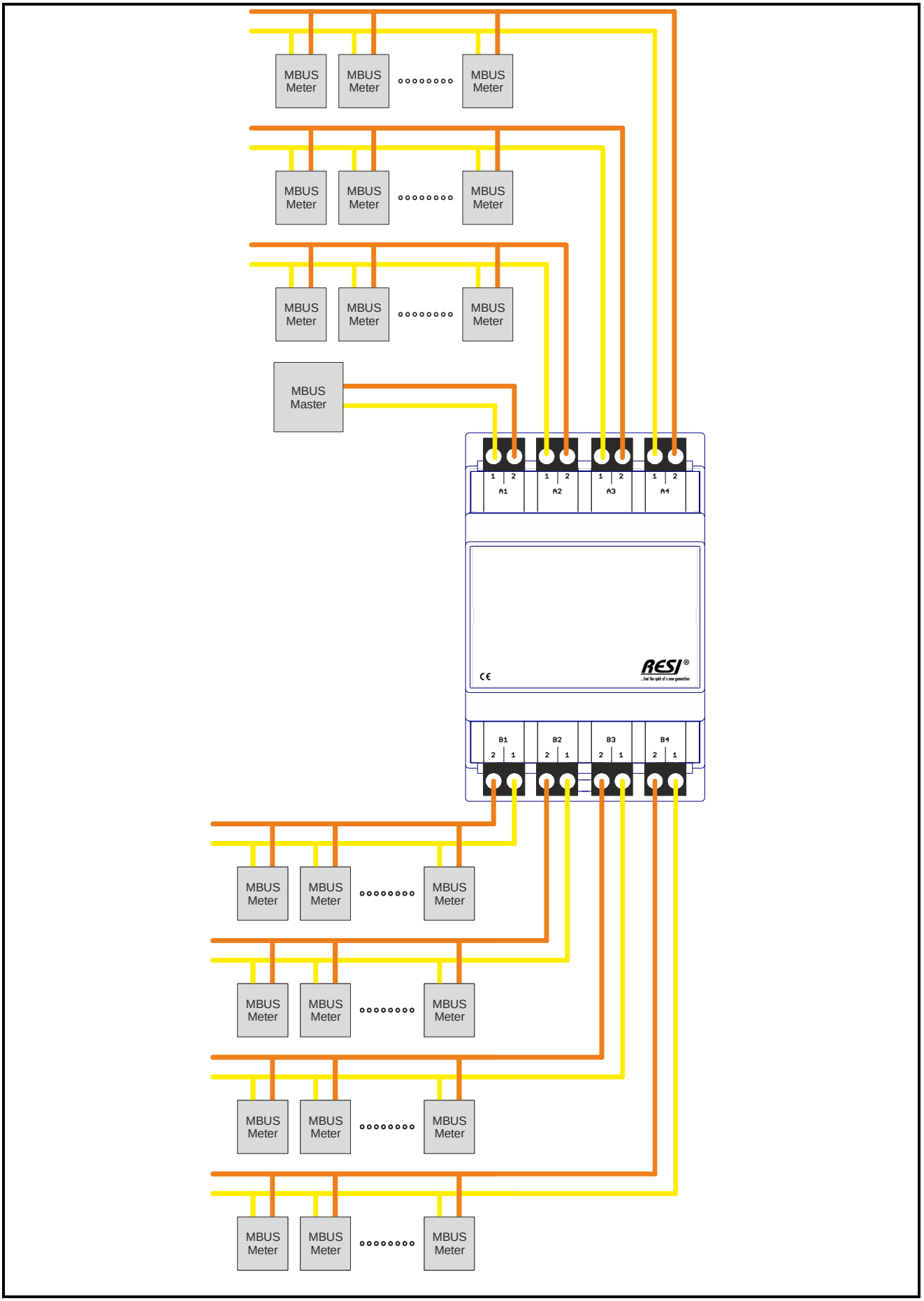


Illustration: Sample: Distribution of a bus system e.g. MBUS

5.14 Bridge module RESI-BR-2X4BK3 with 2 groups with 4 3pin terminal blocks in black

This bridge module offers the following features:

- Two groups with 4 removable 3pin terminal blocks in black each
- Contact rating: max. 60Vac/dc, max. 4A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

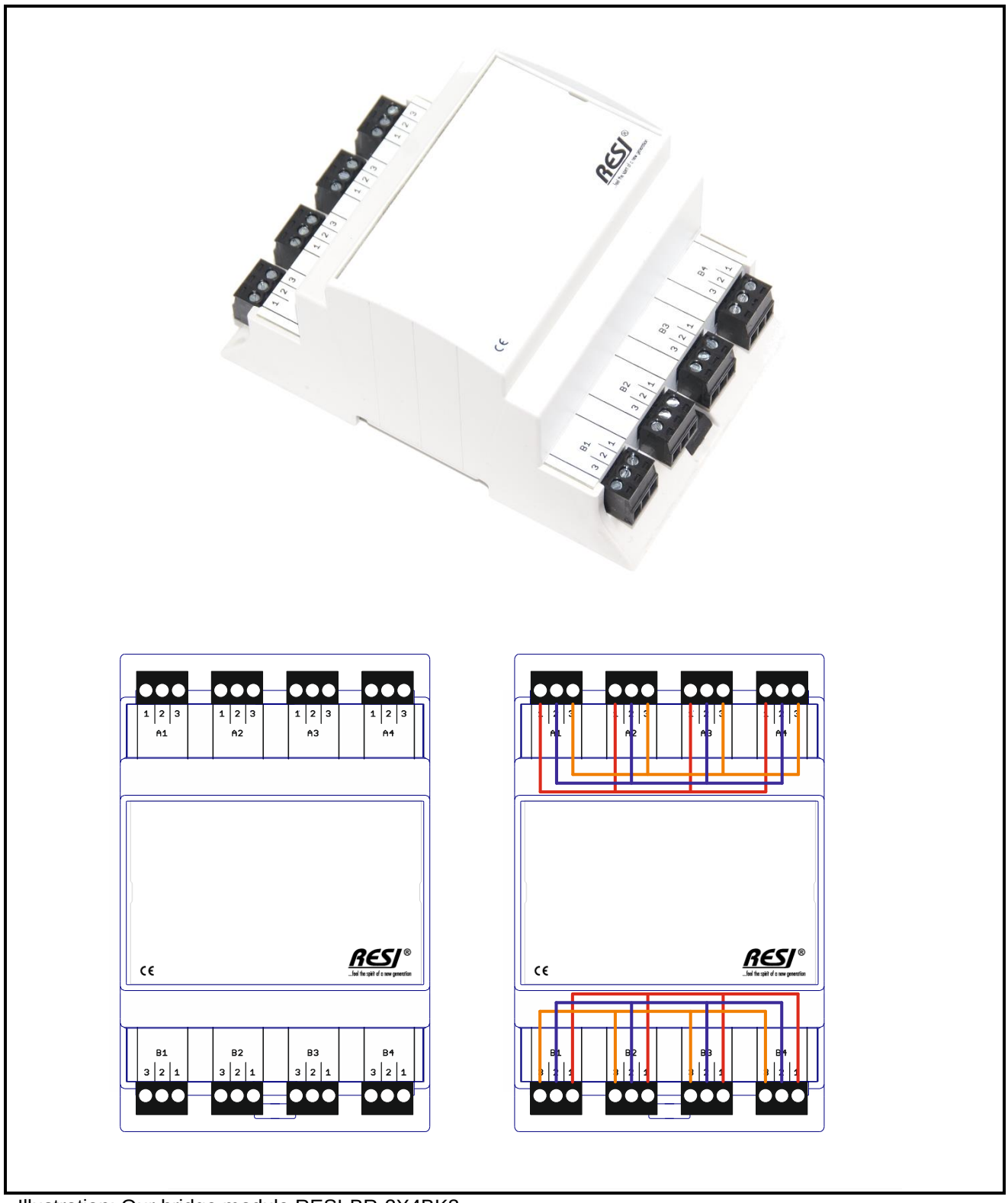


Illustration: Our bridge module RESI-BR-2X4BK3

Technical Data			
Contact rating			
Voltage	max. 60Vac/dc	Storage temperature	-20...85 °C
Current	max. 4A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Number of groups	2 groups	Dimension LxWxH	72mm x 110mm x 62mm
Number of bridged terminal blocks per group	4 terminal blocks	Weight	130g
Terminal block type	Removable 3pin terminal block	Mounting	On DIN EN50022 rail or wall mounting
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	130 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	**RESI-BR-2X4BK3**
A1..A4 1 2 3	Bridged terminal block 1: 1: All pins with 1 are internally combined together (bridged) 2: All pins with 2 are internally combined together (bridged) 3: All pins with 3 are internally combined together (bridged)
B1..B4 1 2 3	Bridged terminal block 2: 1: All pins with 1 are internally combined together (bridged) 2: All pins with 2 are internally combined together (bridged) 3: All pins with 3 are internally combined together (bridged)

Table: Clamps

5.14.1 Wiring examples

Here you find examples, how to wire this module:

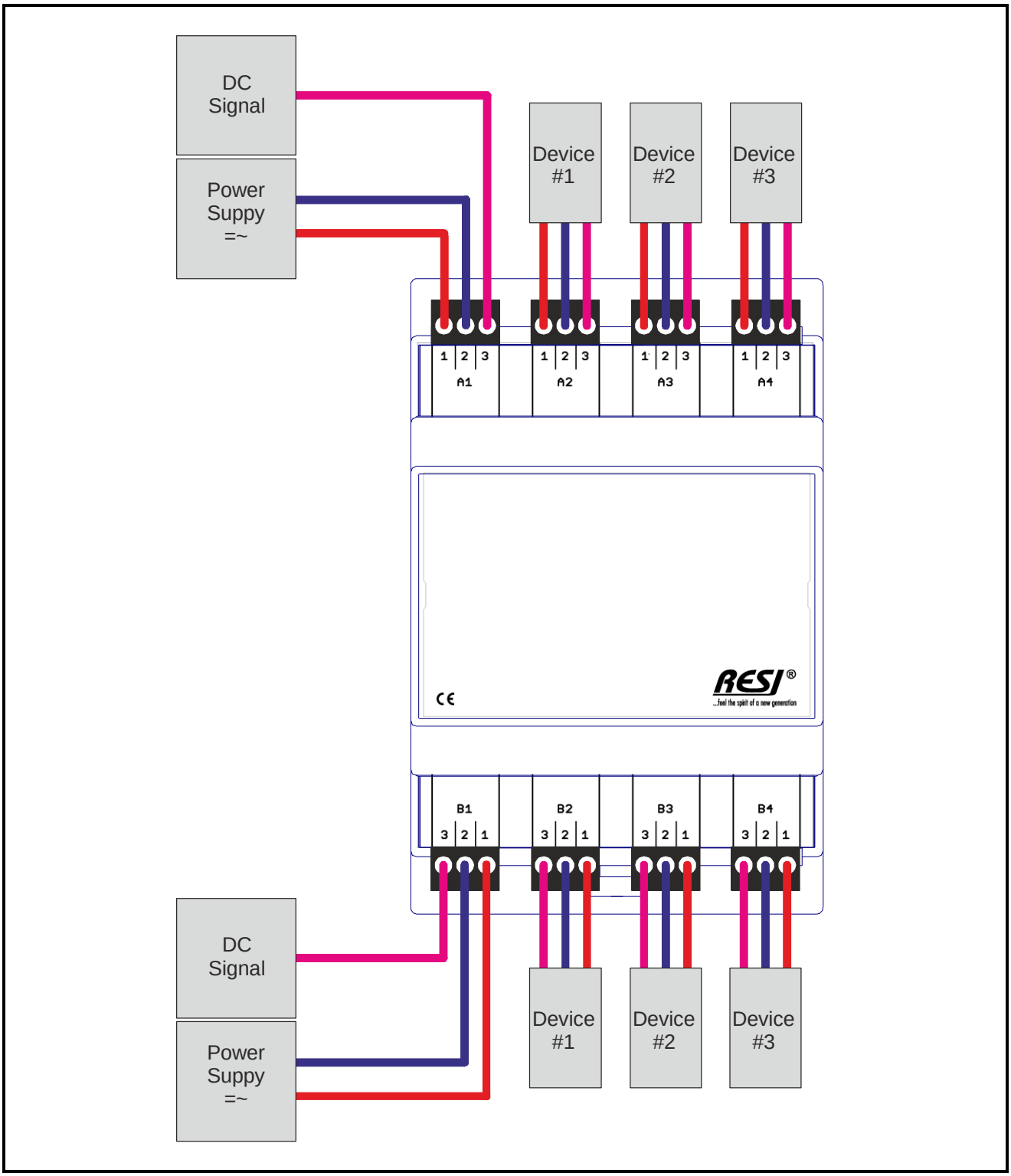


Illustration: Sample: Distribution of two DC signals including power supply

5.15 Bridge module RESI-BR-1X8BK3 with 1 group with 8 3pin terminal blocks in black

This bridge module offers the following features:

- One group with 8 removable 3pin terminal blocks in black each
- Contact rating: max. 60Vac/dc, max. 4A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

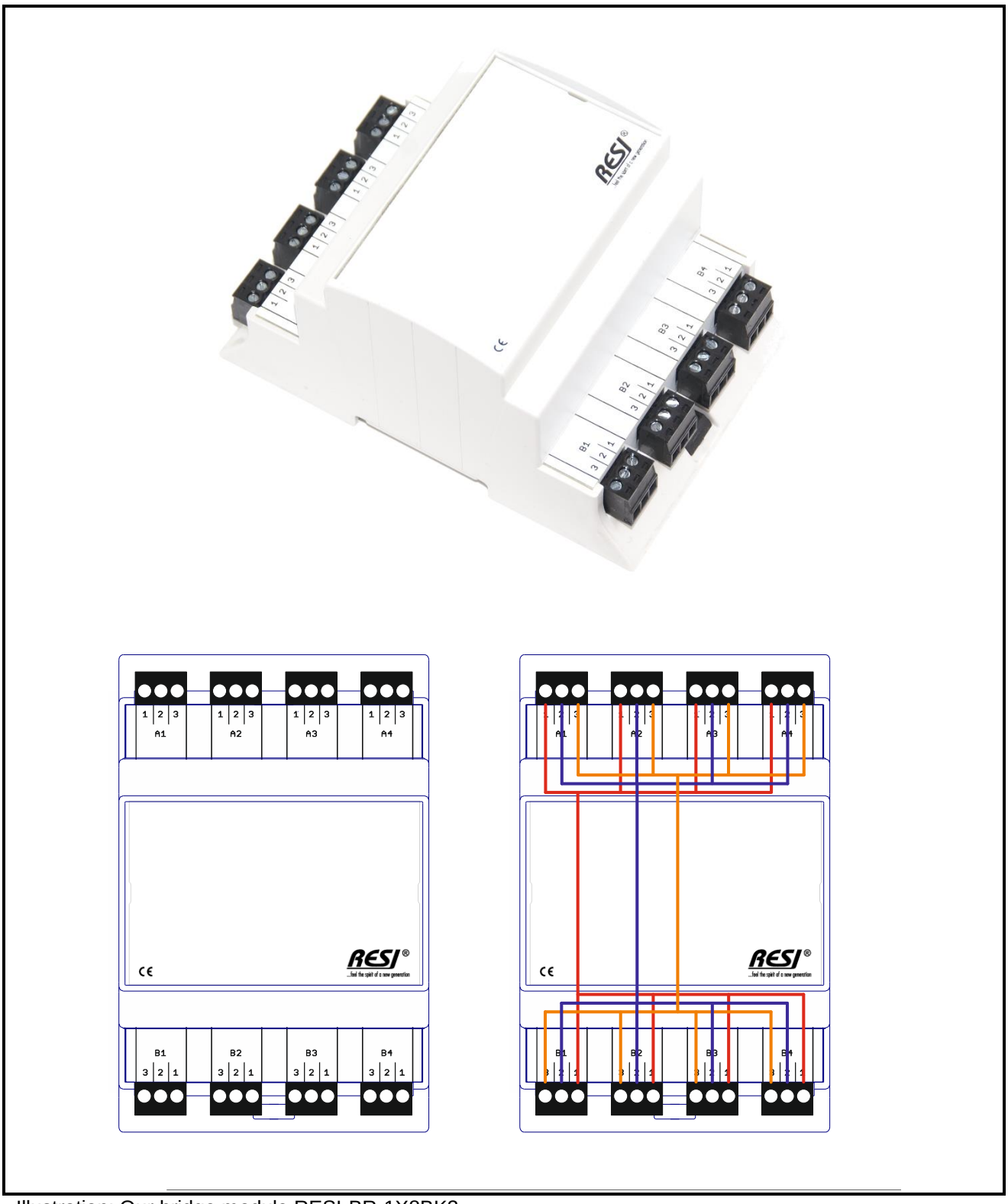


Illustration: Our bridge module RESI-BR-1X8BK3

Technical Data			
Contact rating			
Voltage	max. 60Vac/dc	Storage temperature	-20...85 °C
Current	max. 4A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Number of groups	1 group	Dimension LxWxH	72mm x 110mm x 62mm
Number of bridged terminal blocks per group	8 terminal blocks	Weight	130g
Terminal block type	Removable 3pin terminal block	Mounting	On DIN EN50022 rail or wall mounting
Terminal block color	black		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	130 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	**RESI-BR-1X8BK3**
A1..A4 and B1..B4	Bridged terminal block:
1	1: All pins with 1 are internally combined together (bridged)
2	2: All pins with 2 are internally combined together (bridged)
3	3: All pins with 3 are internally combined together (bridged)

Table: Clamps

5.15.1 Wiring examples

Here you find examples, how to wire this module:

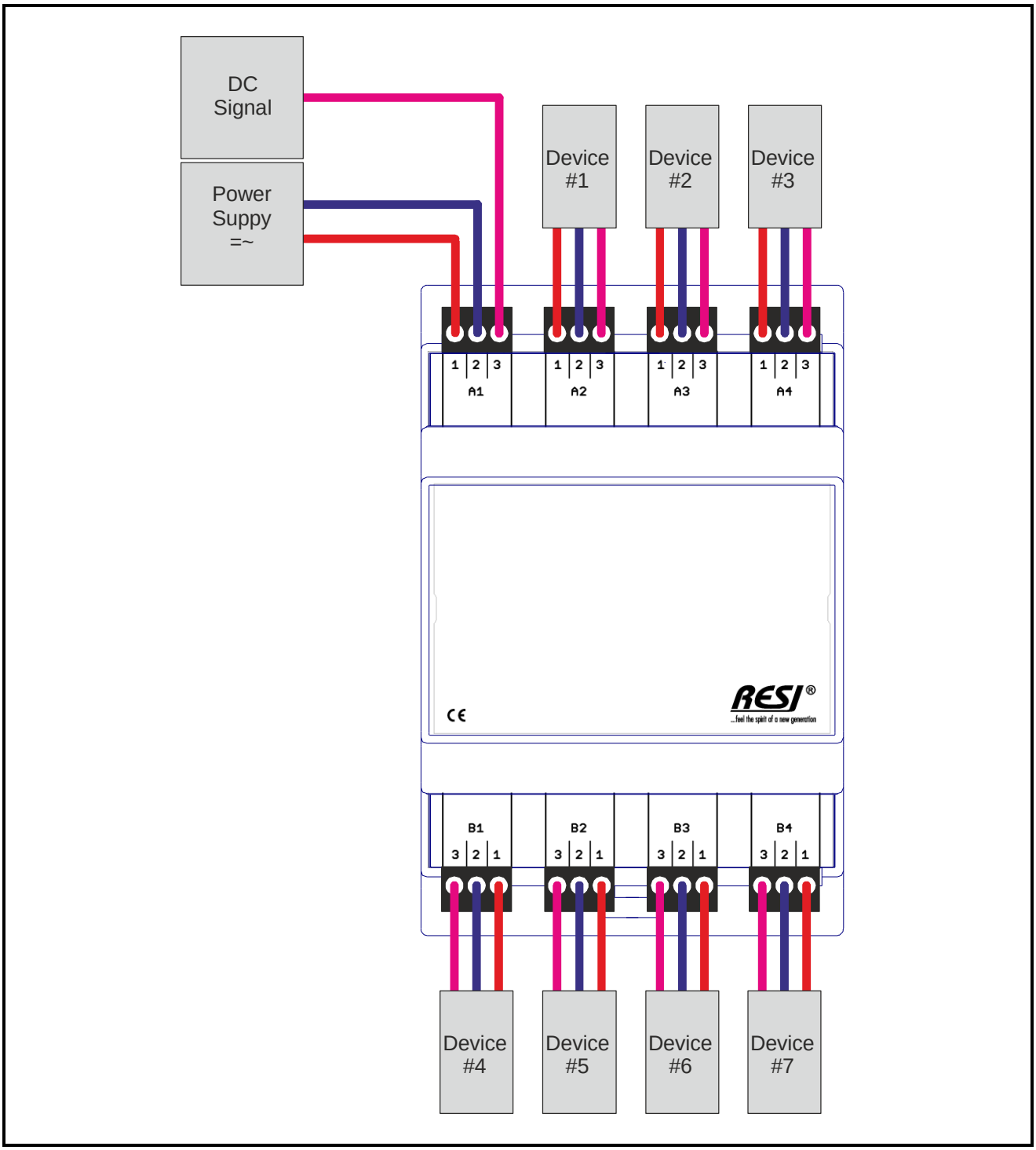


Illustration: Sample: Distribution of one DC signal including power supply

5.16 Bridge module RESI-BR-2X4GY3 with 2 groups with 4 3pin terminal blocks in dark gray

This bridge module offers the following features:

- Two groups with 4 removable 3pin terminal blocks in dark gray each
- Contact rating: max. 60Vac/dc, max. 4A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

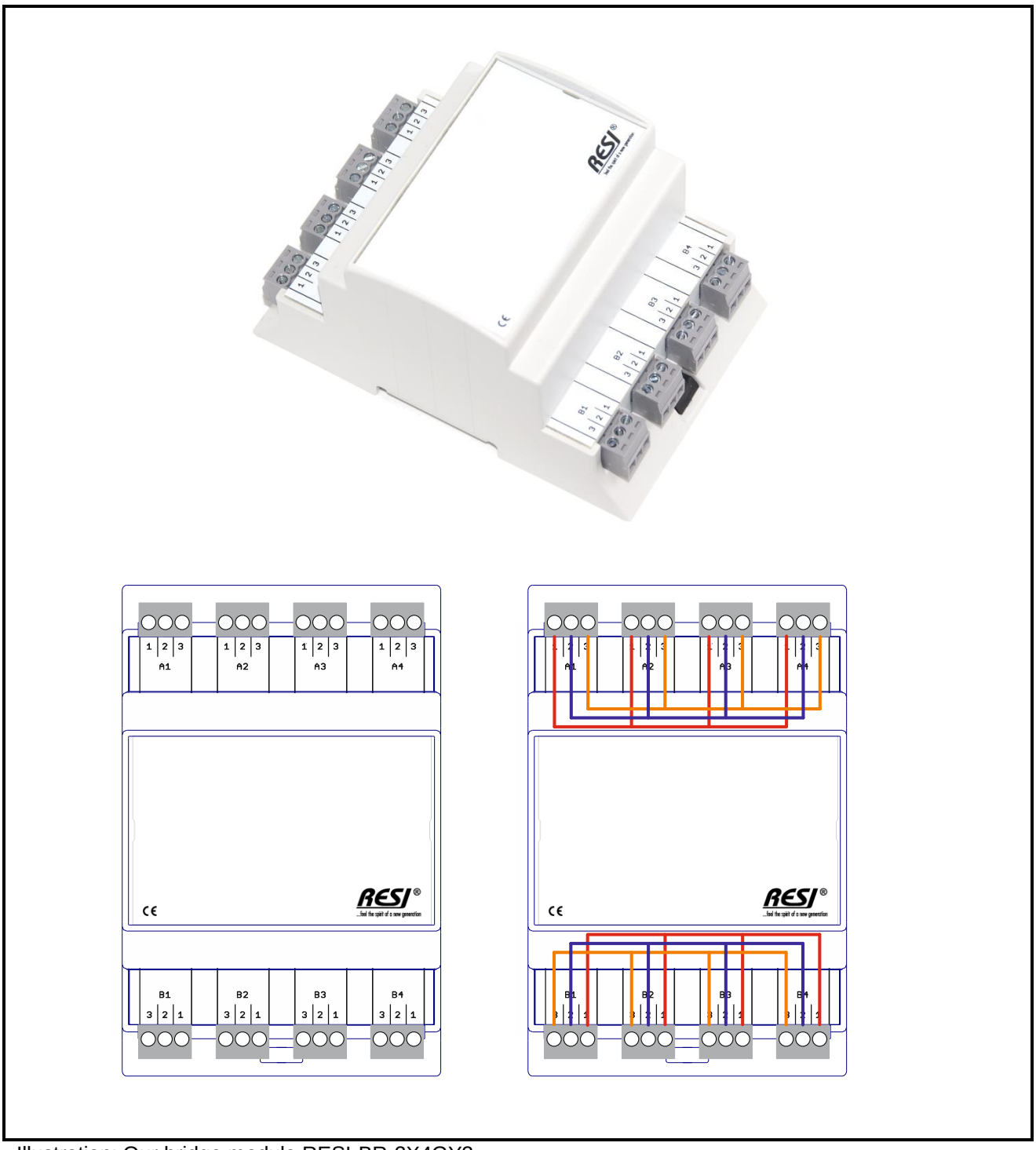


Illustration: Our bridge module RESI-BR-2X4GY3

Technical Data			
Contact rating			
Voltage	max. 60Vac/dc	Storage temperature	-20...85 °C
Current	max. 4A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Number of groups	2 groups	Dimension LxWxH	72mm x 110mm x 62mm
Number of bridged terminal blocks per group	4 terminal blocks	Weight	130g
Terminal block type	Removable 3pin terminal block	Mounting	On DIN EN50022 rail or wall mounting
Terminal block color	Dark gray		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	130 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	**RESI-BR-2X4GY3**
A1..A4 1 2 3	Bridged terminal block 1: 1: All pins with 1 are internally combined together (bridged) 2: All pins with 2 are internally combined together (bridged) 3: All pins with 3 are internally combined together (bridged)
B1..B4 1 2 3	Bridged terminal block 2: 1: All pins with 1 are internally combined together (bridged) 2: All pins with 2 are internally combined together (bridged) 3: All pins with 3 are internally combined together (bridged)

Table: Clamps

5.16.1 Wiring examples

Here you find examples, how to wire this module:

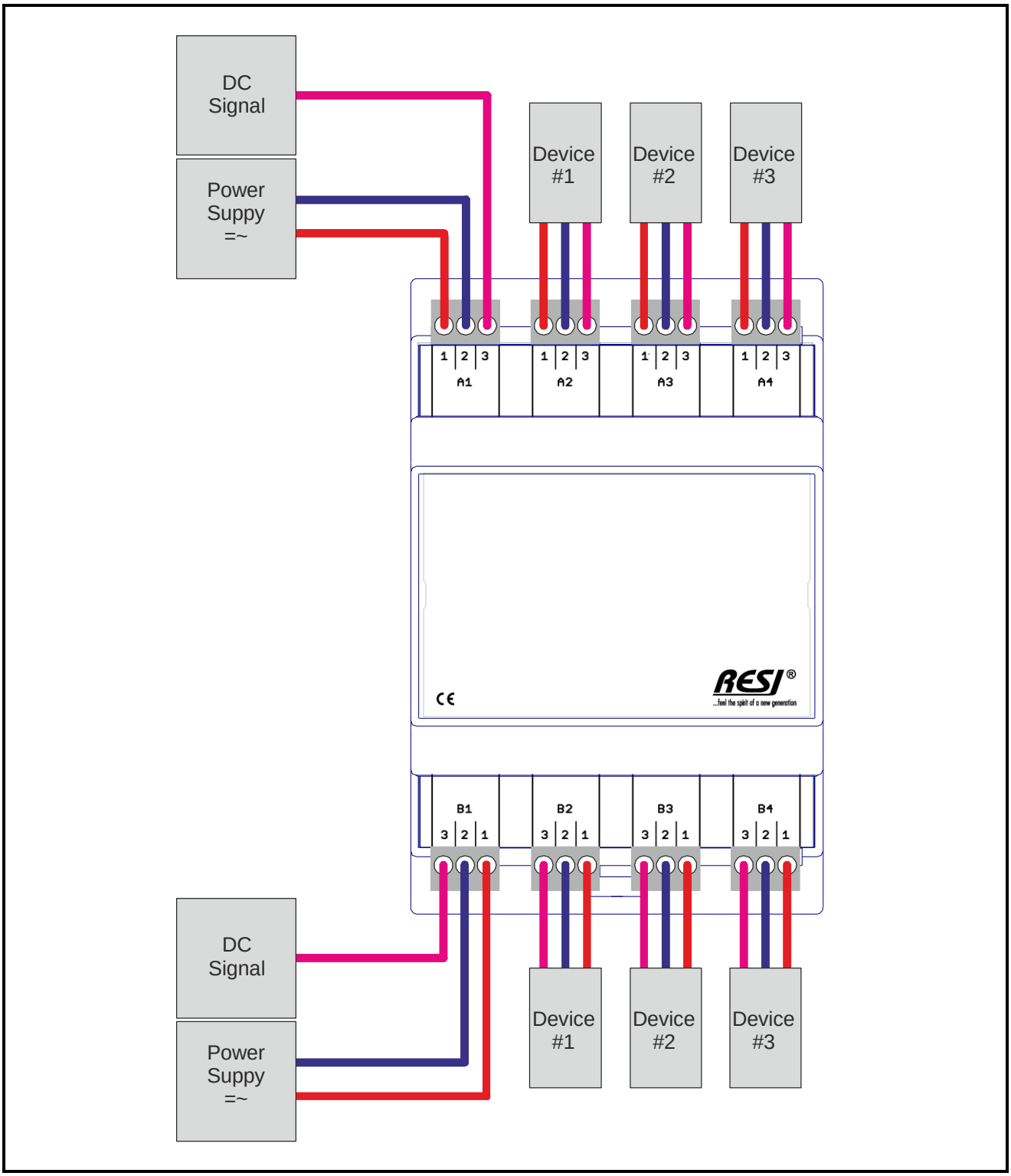


Illustration: Sample: Distribution of two DC signals including power supply

5.17 Bridge module RESI-BR-1X8GY3 with 1 group with 8 3pin terminal blocks in dark gray

This bridge module offers the following features:

- One group with 8 removable 3pin terminal blocks in dark gray each
- Contact rating: max. 60Vac/dc, max. 4A
- Dimension (LxWxH): 72x110x72mm
- Mounting onto a EN50022 DIN rail or wall mounting

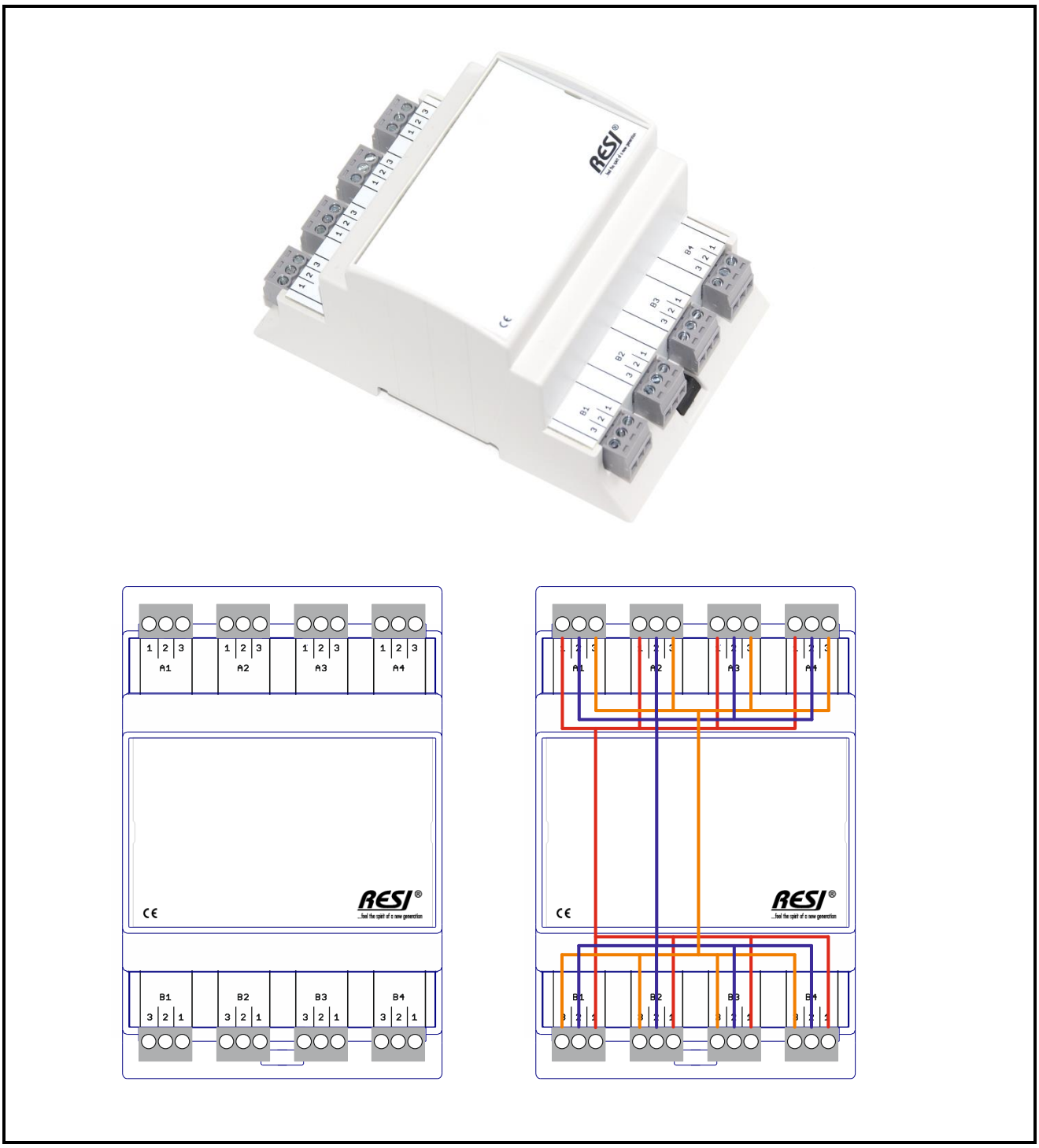


Illustration: Our bridge module RESI-BR-1X8GY3

Technical Data			
Contact rating			
Voltage	max. 60Vac/dc	Storage temperature	-20...85 °C
Current	max. 4A	Operating Temperature	0...60°C
		Humidity	25...90 % rH non-condensing
Connections		Protection Class	IP20 (EN 60529)
Number of groups	1 group	Dimension LxWxH	72mm x 110mm x 62mm
Number of bridged terminal blocks per group	8 terminal blocks	Weight	130g
Terminal block type	Removable 3pin terminal block	Mounting	On DIN EN50022 rail or wall mounting
Terminal block color	dark gray		
Clamps			
Clamp wire cross section	Max. 1,5 mm²		
Tightening torque	Max. 0.5Nm	**CE conformity**	Yes

Table: technical data

Dimensions	
Dimensions of the housing L x B x H (mm)	72 x 110 x 62
Weight	130 g
Color	Grey, RAL7035
Material	Self-extinguish PC/ABS, DIN 43880
Protection class	IP20 based on DIN 40050/EN 60529

Table: technical data of the housing

CLAMPS	**RESI-BR-1X8GY3**
A1..A4 and B1..B4	Bridged terminal block:
1	1: All pins with 1 are internally combined together (bridged)
2	2: All pins with 2 are internally combined together (bridged)
3	3: All pins with 3 are internally combined together (bridged)

Table: Clamps

5.17.1 Wiring examples

Here you find examples, how to wire this module:

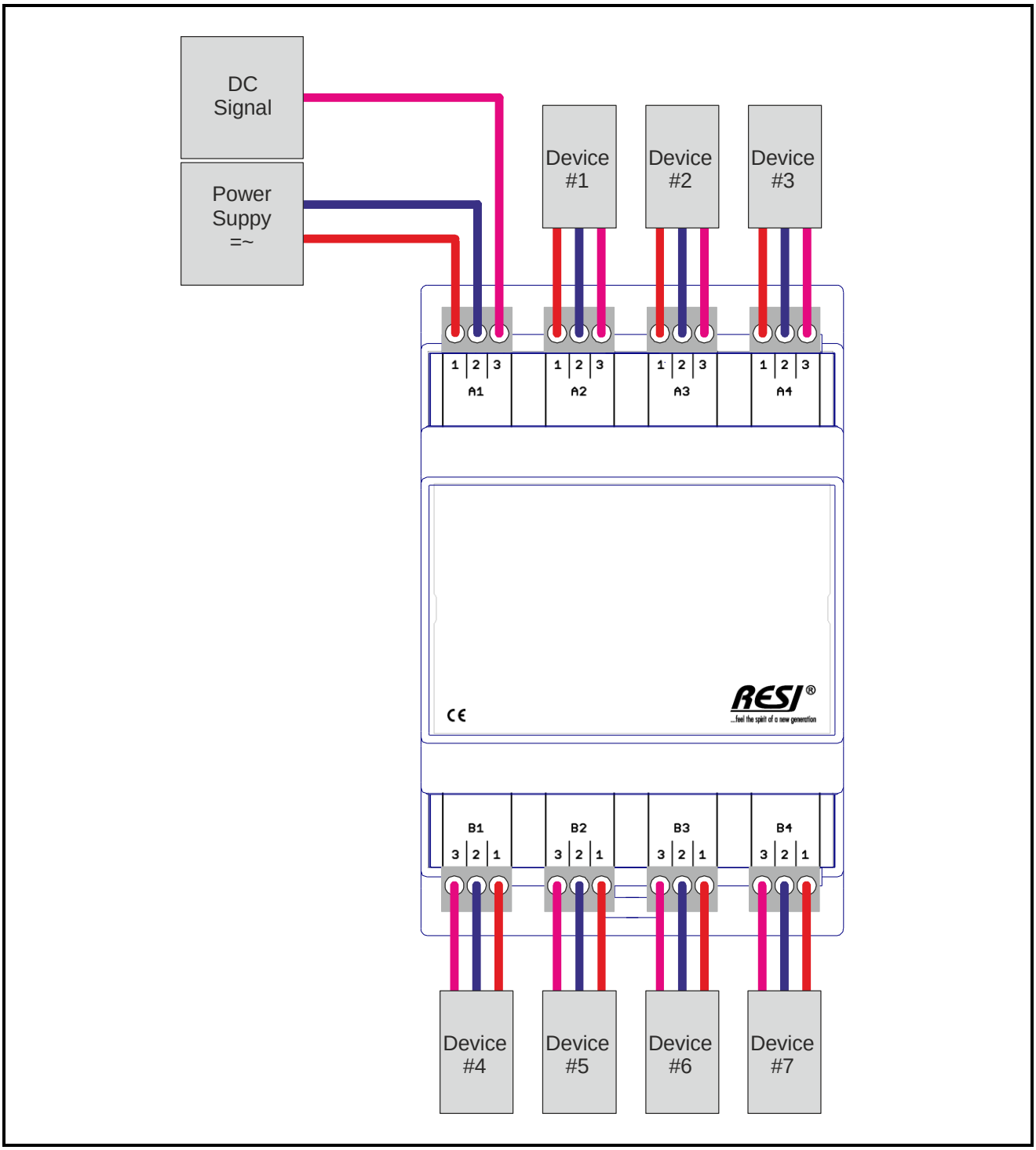


Illustration: Sample: Distribution of one DC signal including power supply

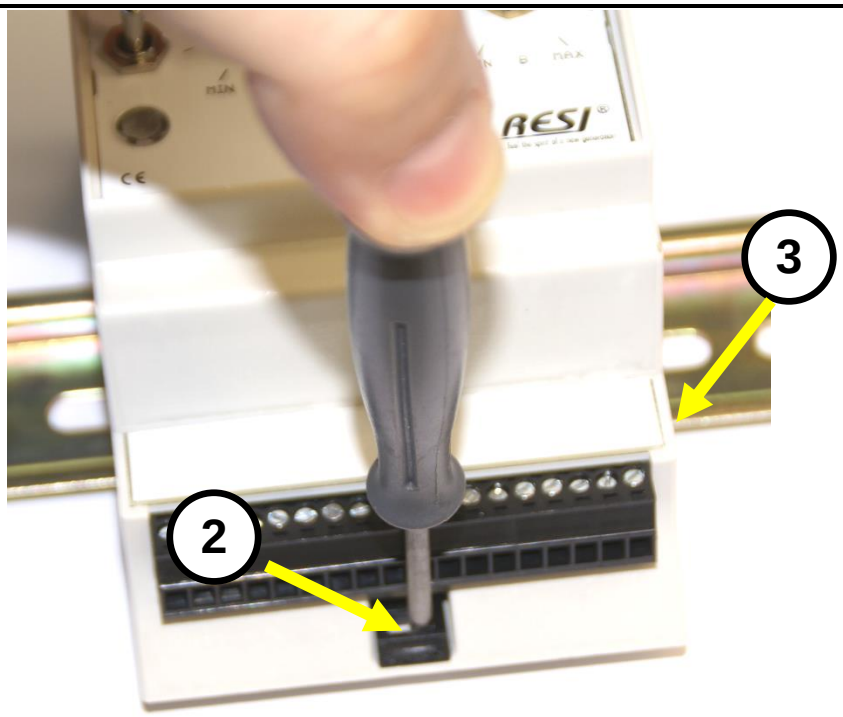
6 Mounting of the module

Our IO modules are designed for mounting onto an EN50022 DIN rail or for wall mounting. Please note, that in the following section we use only symbol photos to describe the mounting procedure.

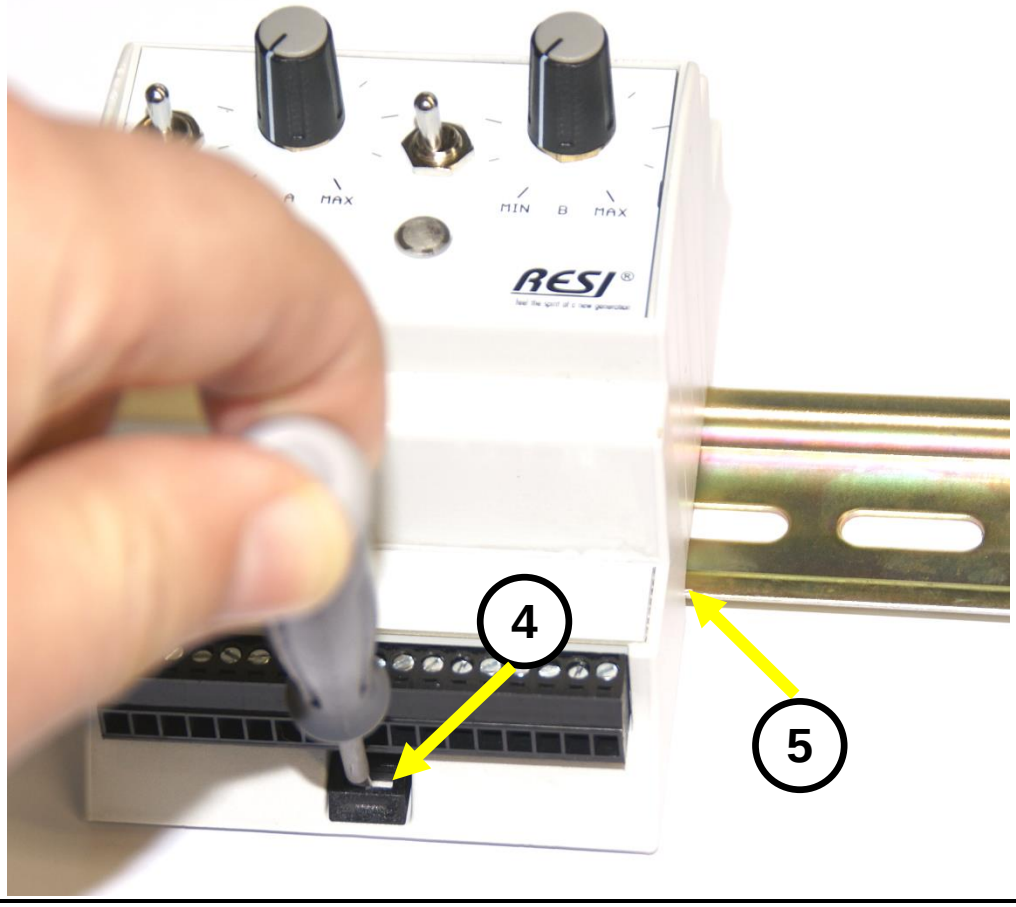
6.1.1 Mounting onto an EN50022 DIN rail

First, you plug the upper side of the module into the DIN rail (1). The lower side of the module is not snapped into the DIN rail.

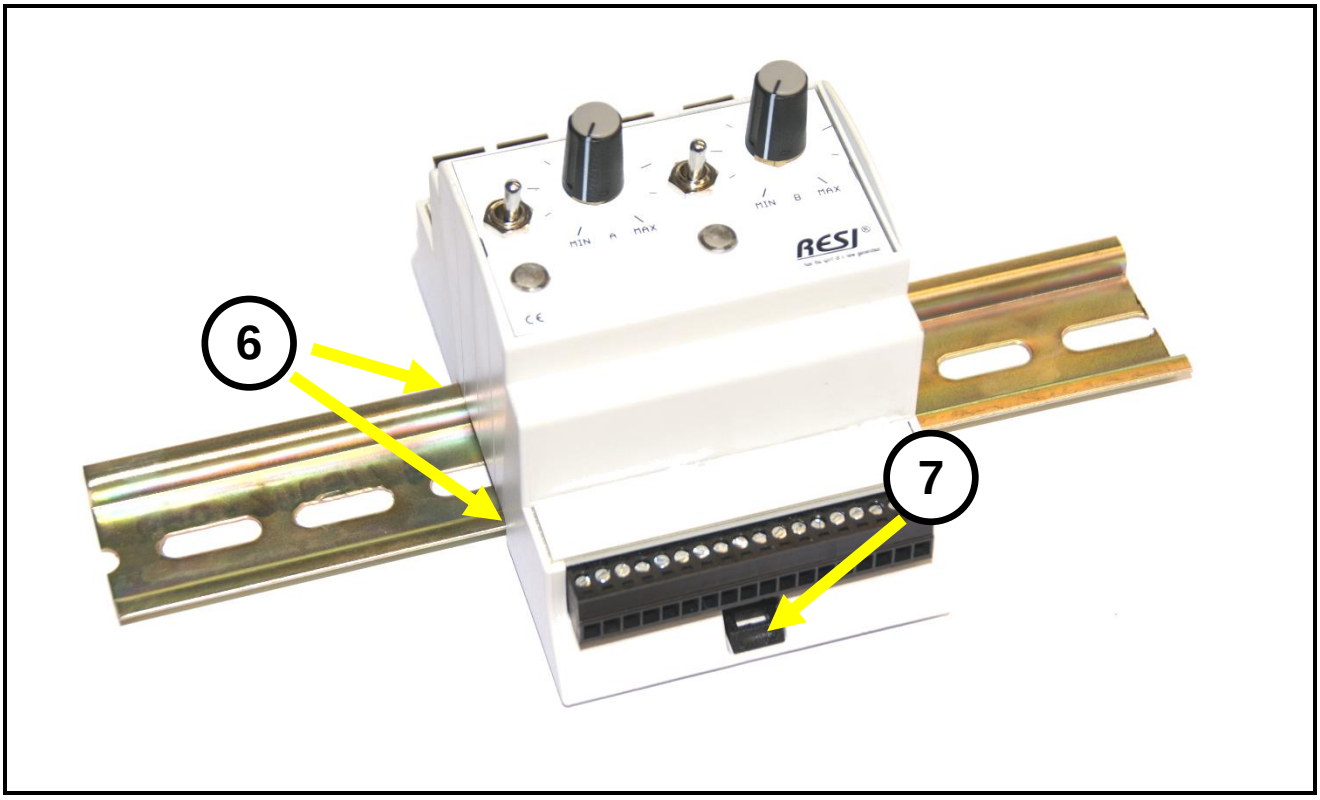
Then open the black hook with a screw driver (2). Now press the module with the opened hook onto the DIN rail until both sides of the module snap into the DIN rail (3). Release the screw driver now. The hook snaps into the DIN rail and the module is now mounted correctly onto the DIN rail.



To remove the module from the DIN rail, you must open the hook with a screwdriver first. (4). Afterwards tilt the bottom side of the module upwards with the open hook (5). Now remove the module slightly from the DIN rail with the top side, to completely hang out the module from the DIN rail.

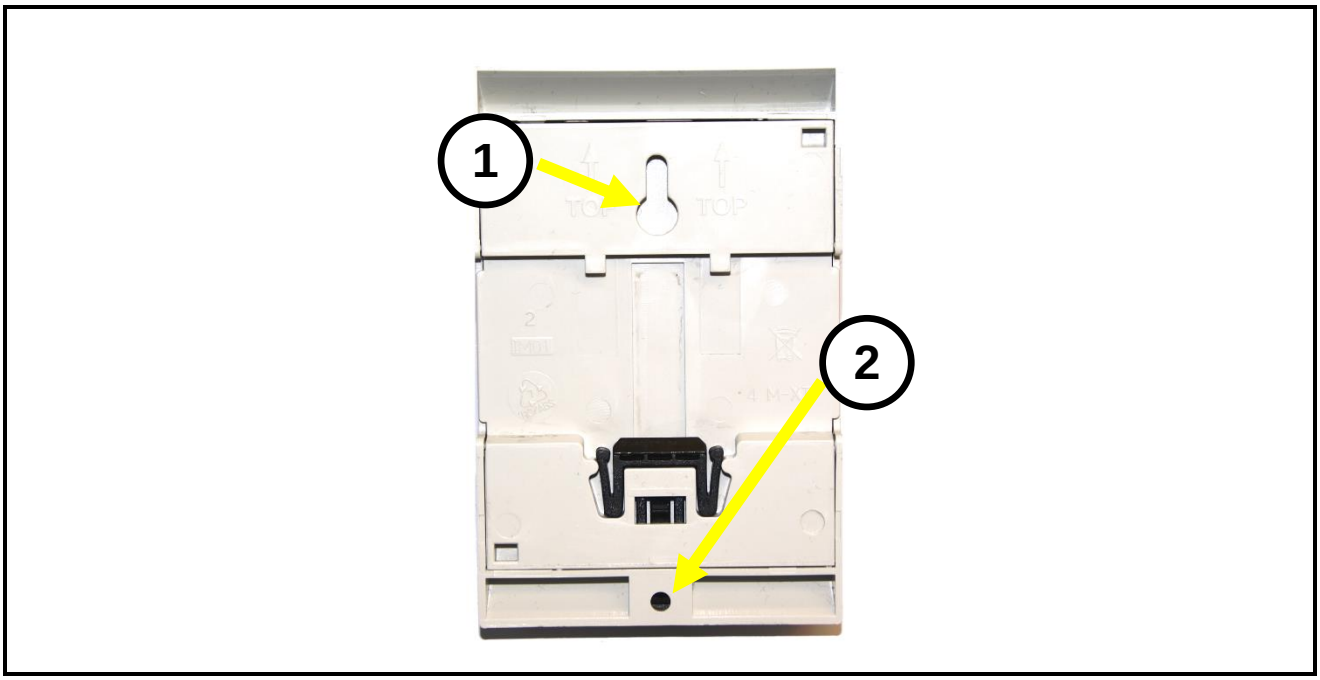


The module is correctly mounted, if the module has snapped into the DIN rail on both sides of the housing (6) and if the hook has snapped in too (7).

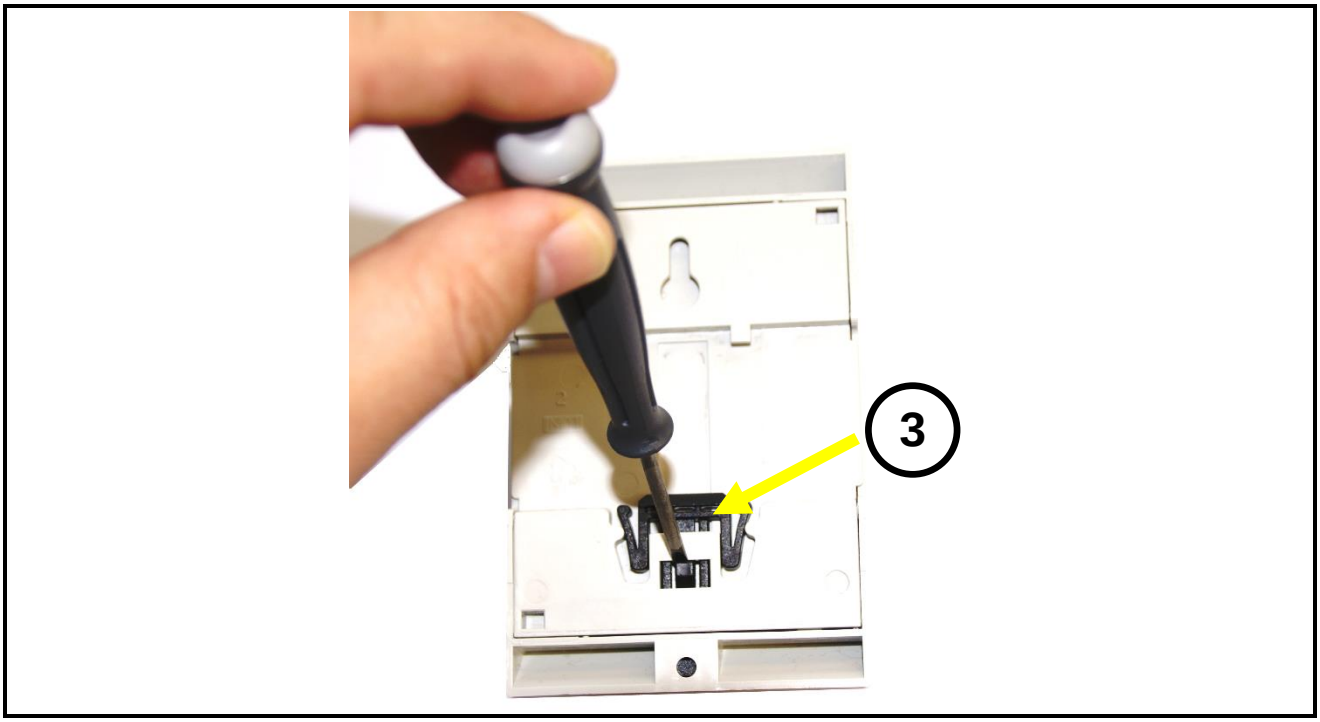


6.1.2 Wall mounting

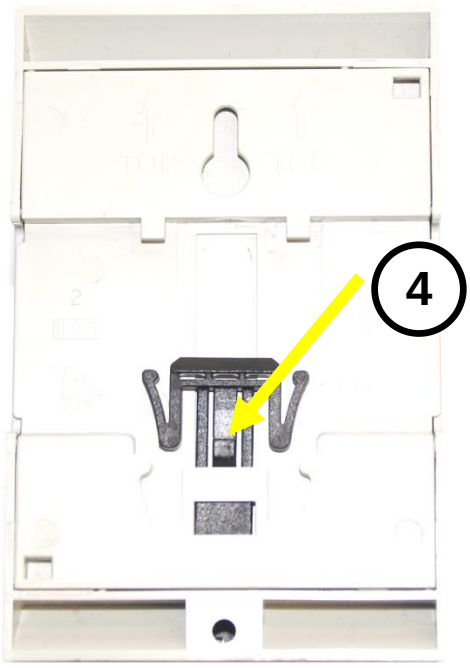
Our modules can also be mounted onto a wall. Turn over the module as shown in the picture below:

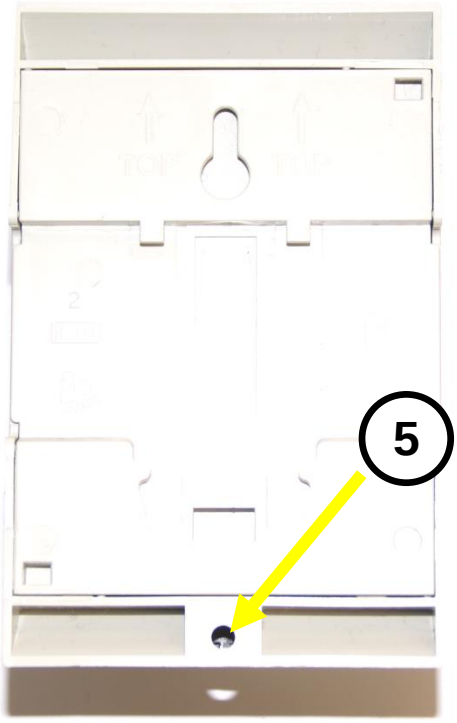


You will notice, that there is one hole for wall hooks or screws on the top side of the housing. (1) On the bottom side you will notice a small hole for a screw to fix the housing on the wall from the front (2). But first we have to remove the hook, which blocks the screw hole in the housing.



Press carefully the screwdriver onto the hook to open the lock (3) and pull back the hook to the inner side of the housing bottom to remove the hook. If the hook is not snapped into the housing, you can remove the hook by hand (4) and the screw hole for fixing the housing with a screen from the front side of the housing (5).





Now fix a wall hook or screws into the wall. The screw head must be bigger than 4mm but also smaller than 8mm to fix the housing onto the wall like a picture frame. If the housing in mounted onto the wall, you can fix the housing with a secure screw through the hole in the bottom housing from the front. But your screw must be smaller than 4mm to fit into this hole and the screw head must be bigger than 4mm to press the housing onto the wall.

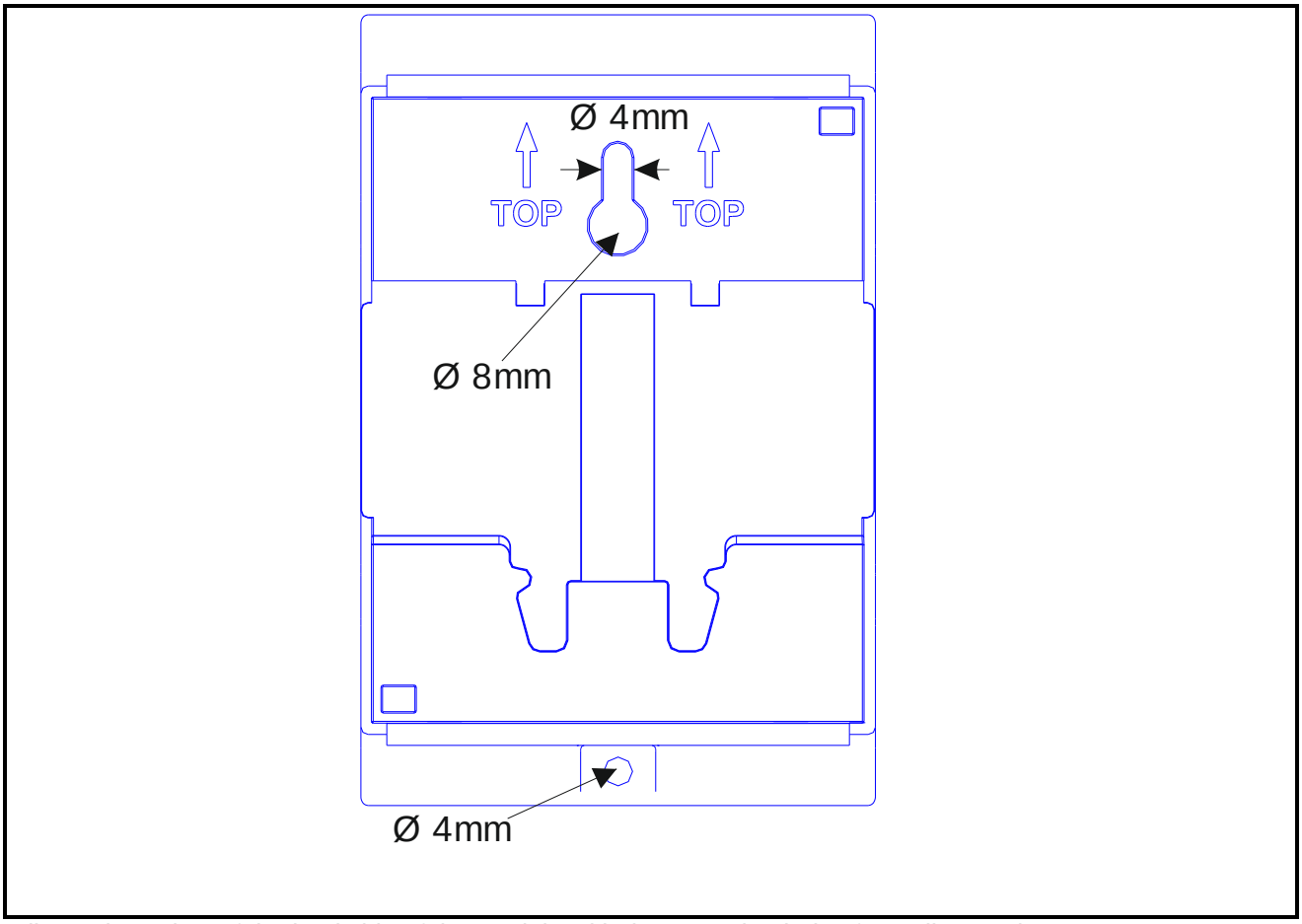


Illustration: View of the backside of the module with the mounting holes for wall mounting

7 Dimension of the module

In the below drawing you will find all dimensions of the module.

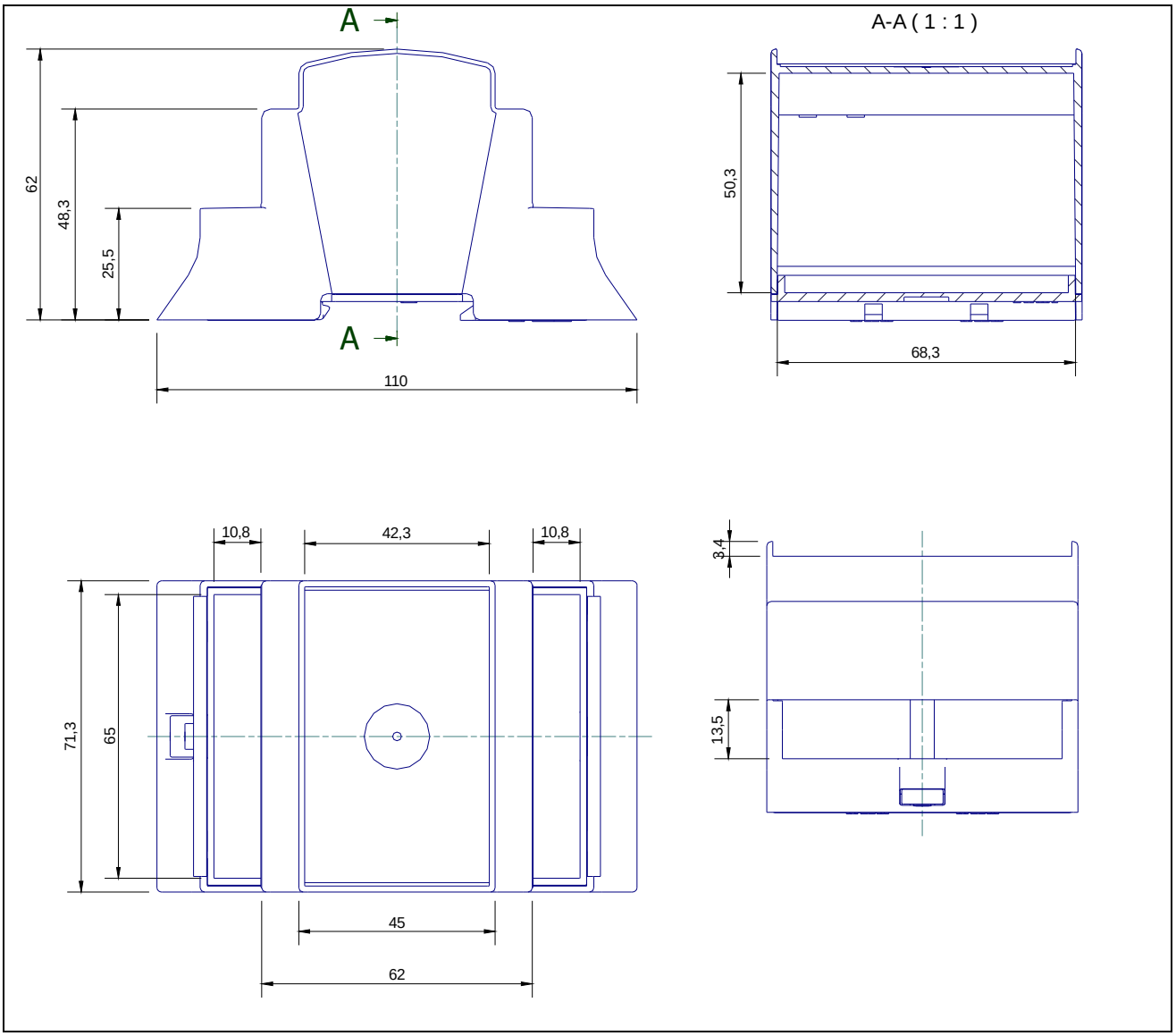


Illustration: Dimensions of the IO module in mm

8 3D Drawing

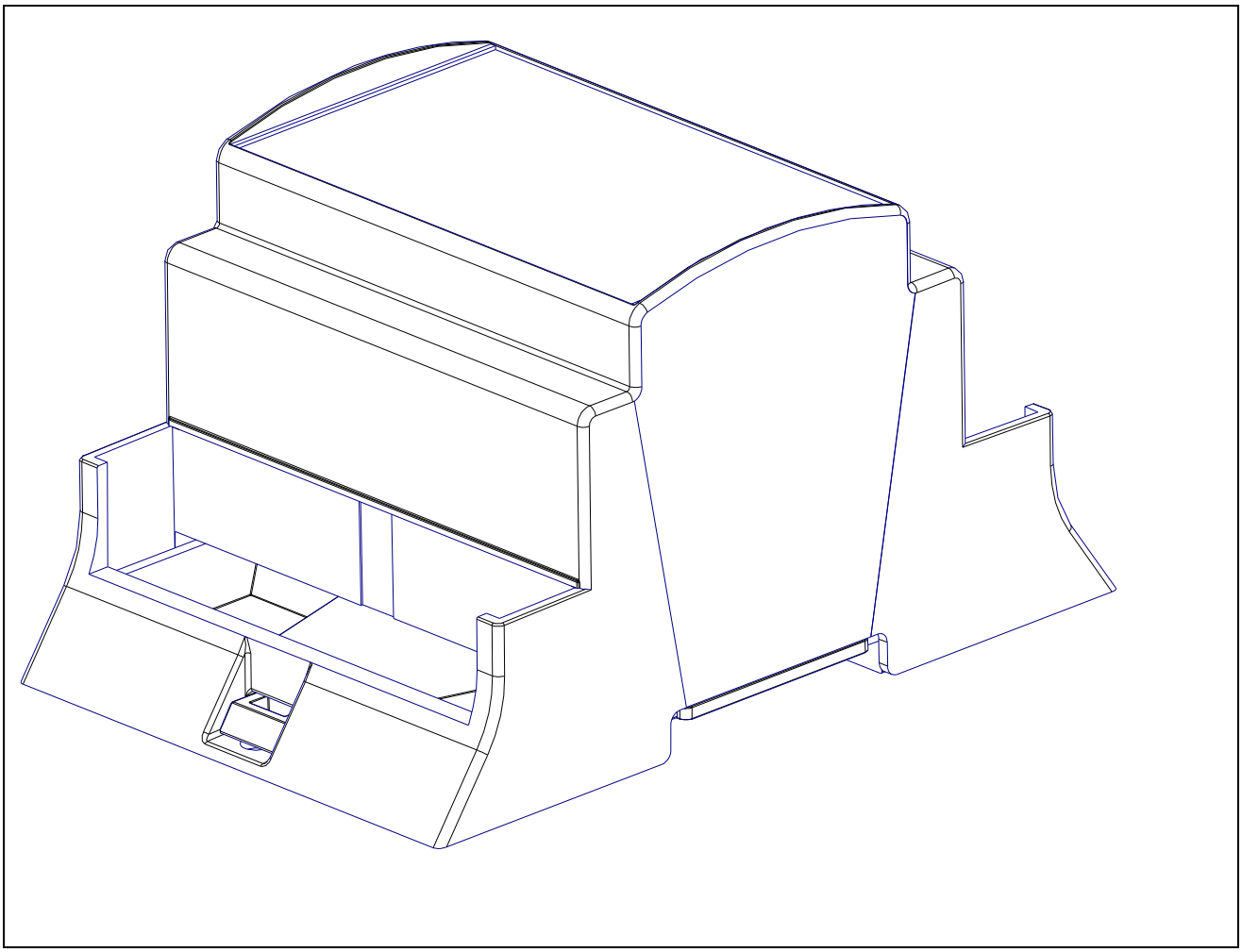


Illustration: Drawing of the housing in 3D