PLC Interfaces
H-, R- and S-System

PLC Interfaces

Universal precabling for PLCs	C.2
Selection guide	C.5
Direct inputs/outputs for digital cards	C.20
Opto-decoupled inputs for digital cards	C.38
Relay outputs for digital cards	C.42
Input / output for analogue cards	C.54

Close the catalogue

Close the catalogue

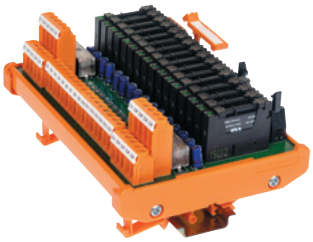
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Interface units and PLC solutions

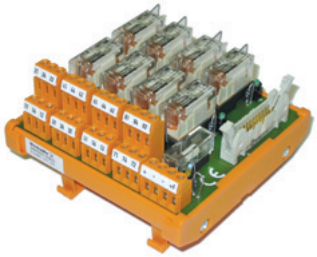
Direct inputs/outputs for digital cards
Page C.20



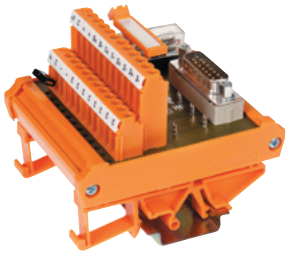
Opto-decoupled inputs for digital cards
Page C.38



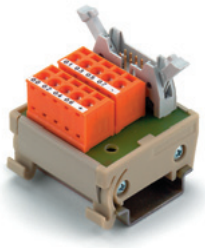
Relay outputs for digital cards
Page C.42



Input / output for analogue cards
Page C.54



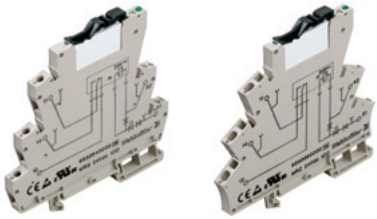
Immediate inputs/outputs by byte
Page D.11



Digital MICROinterface
Page D.21



MICROSERIES MRS/MRZ Relays
Page D.24



MICROSERIES MOS/MOZ Optocouplers
Page D.27



Universal leads
Page D.31



Electromechanical and static relays
Page D.34



Close the catalogue

PLC interface systems

The complexity of machines and installations in industry, processing or building is giving rise to ever-increasing cabling costs. The traditional wire to wire cabling between the PLC and the inputs/outputs is very expensive during installation and commissioning. The PLC interface system offers the user an easy and quick-to-install solution for wiring the inputs and outputs of the SIEMENS SIMATIC® S7.

Special front adapters replace the usual screwed connectors used for the I/O cards of the PLC. The signals from the PLC are sent to the active or passive components by means of a prefabricated lead fitted with a 20-pole female connector.

Wire to wire cabling

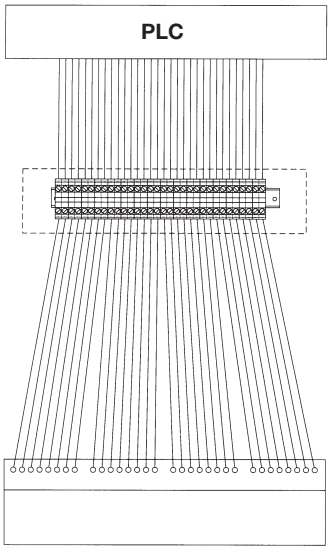
Most PLC I/O cards use two types of connection:

- screw,
- tension clamp.

In each case, the signals are connected individually to each connection component.

Disadvantages of wire to wire cabling:

- high assembly costs,
- risk of error increasing with the number of wires connected,
- large amount of space taken up in the cabinet,
- high installation costs,
- a lot of time taken up in preparing and laying the wires,
- a large amount of time taken up in producing wiring diagrams and drawings.



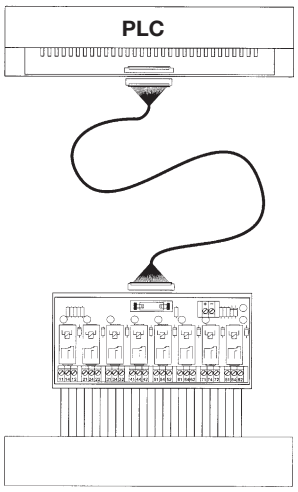
Wiring interface system

The basic idea is that the PLC's I/O cards are connected to the active or passive I/O modules using prefabricated cables. Front adapters are directly plugged into the PLC's I/O cards. The adapter internally converts the PLC-specific connectors to an HE connector for ribbon cable (in accordance with IEC 603-1/ DIN 41651). The active or passive I/O modules can thus be used independently of the type of PLC.

The wiring interface system has the following advantages over wire to wire cabling:

- minimum wiring costs,
- reduced installation time,
- the commissioning and the production of wiring drawings is simplified.

The family of PLC interface modules allows the inputs/outputs for main PLC manufacturers to be quickly and easily connected.



PLC interface systems

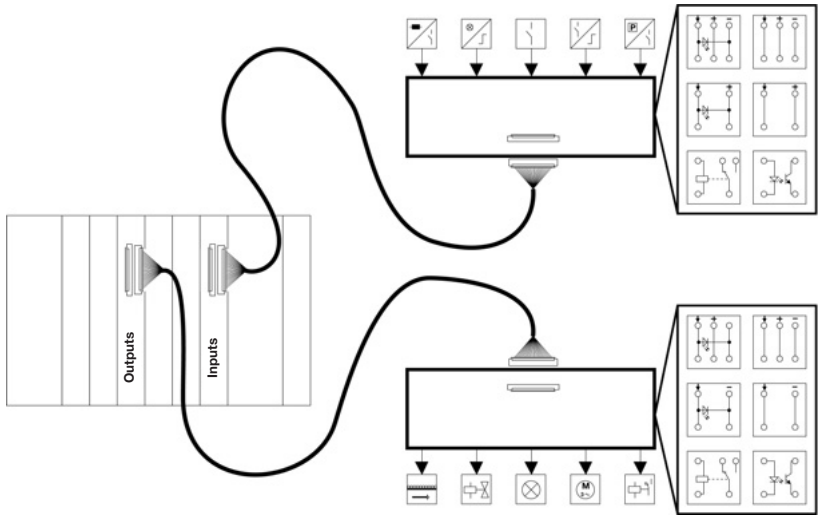
Advantages of the system:

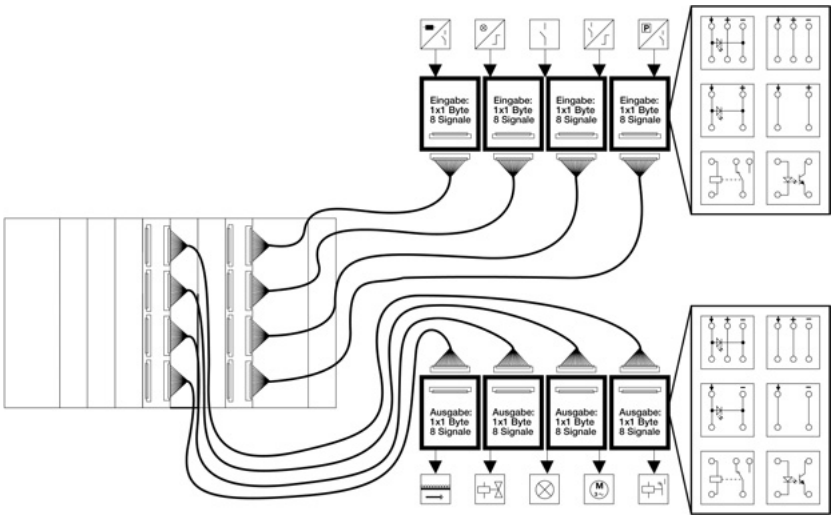
- **Quick**
- reduced design times,
- time saved during installation,
- reduced commissioning and trouble-shooting times,
- reduced on-site wiring times thanks to the prefabricated cables.

- **Reliable**
- no wiring errors,
- clear wiring in the cabinet (cable system instead of individual wires),
- labelling corresponding to that of the PLC,
- additional individual labelling.

- **Flexible**
- many input/output modules (about 40 possibilities),
- variable cable lengths,
- modularity of all components,
- configuration of 1 x 4 bytes and 2 x 2 bytes without distributor,
- option to mix functions by byte at the I/Os,
- extensions possible without any problem,
- flexibility thanks to the ease in exchanging input/output interfaces.

- **Takes up only a small amount of space**
- more space in the cable ducts,
- narrow modules,
- no terminal block.





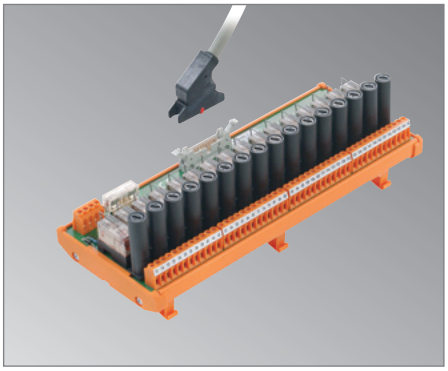
Weidmüller universal precabling for PLCs

System H ...

... screw or tension clamp, standard or compact

Weidmüller's system H was developed for all PLC types and can be adapted to suit all situations. Particularly economic, it is characterised by:

- Connector type HE, 10/20 pins, **fully protected**:
  extruded-insulation cable, polarised, secure connection
- precabling to PLC – **0.25 mm² (LIYY)**
- connection type selection:
  screw or tension clamp
- **new compact modules**, reducing the size of the cabinet
- Input/output of interface modules boards
  for digital signals: **4, 8, 12, 16 and 32-channel**



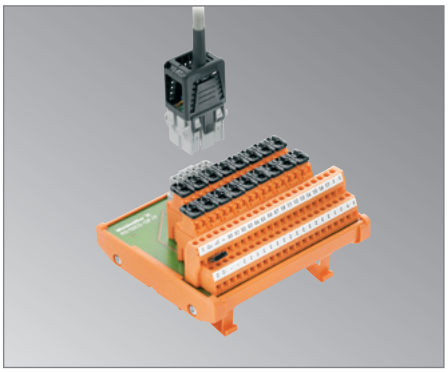
Relay outputs – System H

System R ...

... with the RSV 1.6 industrial connector

Thanks to its industrial connector, system R enables the connection of input signals to a higher voltage of up to 160 V or 250 V.
It is characterised by:

- connector type RSV 1.6 (250 V DC 8 A)
- precabling to PLC – 0.25 mm² (LIYY)
- input/output interface module boards for digital signals 8, 16, 32-channel



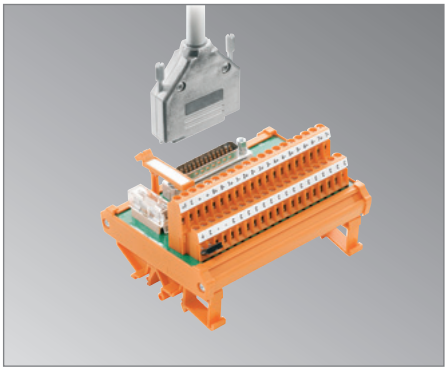
Direct inputs – System R

System S ...

... with shielded Sub-D connector

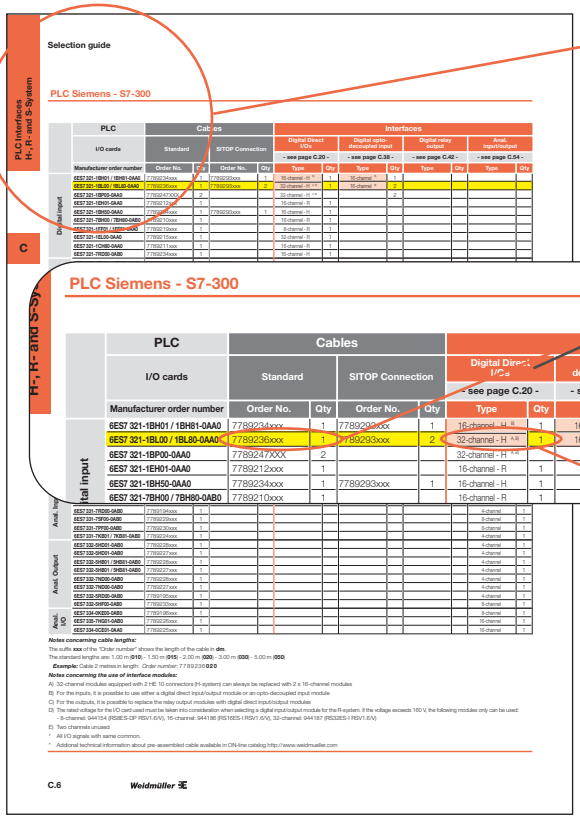
The sub-d metallic housing is ideal for the transmission of analogue signals:

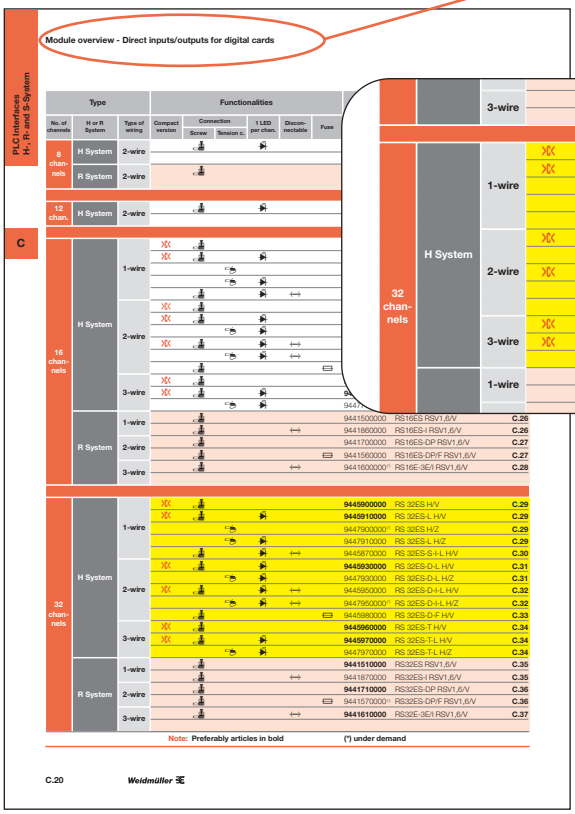
- Connector sub-d female 15, 25, 37 poles
- Precabling to PLC – 0.25 mm² shielded (LYC)
- Input/output interface module boards with PE.



Analog input/outputs – System S

Using the selection guide





1 Select the PLC card from the corresponding table

Example:
- PLC: Siemens S7-300
- Card: 6ES7 321-1BL00 / 1BL80-0AA0

2 Look up the order number for the cable and the quantity to be ordered

Example:
- Cable order number **7789236xxx*** - Qty 1

* *see the note at the bottom of the page*

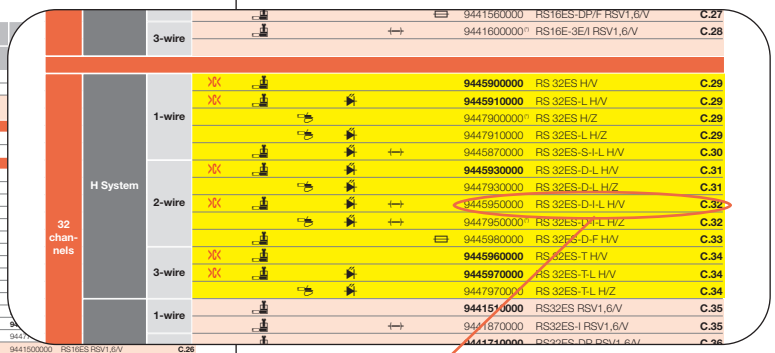
3 Look up the exact module family and the quantity to be ordered

Example:
- 32-channel system H - Qty. 1

  or
- 16-channel opto-decoupled system H - Qty. 2

4 Refer to the page whose number is given at the top of the column

Example:
- Please refer to page C.20 Direct inputs/outputs for digital cards



5 Select the module order number in the family defined at stage 3

Example:
- Module order number **944595** – Qty. 1
  32-channel module, 2-wire cabling, compact, version with Led, interruptible
- Technical characteristics, **page C.32**

* *The suffix xxx in the order number shows the length of the cable in dm. the standard lengths are: 1.00 m (010) - 1.50 m (015) - 2.00 m (020) - 3.00 m (030) - 4.00 m (040) - 5.00 m (050).*

Note: it is also possible to use the catalogue type of the cable.

In this case the suffix xxxx of the catalogue type shows the length of the cable in cm. The standard lengths are: 1.00 m (0100) – 1.50 m (0150) – 2.00 m (0200) - 3.00 m (0300) – 4.00 m (0400) – 5.00 m (0500)

PLC Siemens - S7-300

	PLC	Cables				Interfaces							
	I/O cards	Standard		SITOP Connection		Digital Direct I/Os		Digital opto-decoupled input		Digital relay output		Anal. input/output	
						- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	6ES7 321-1BH01 / 1BH81-0AA0	7789234xxx	1	7789293xxx	1	16-channel - H [B]	1	16-channel [B]	1				
	6ES7 321-1BL00 / 1BL80-0AA0	7789236xxx	1	7789293xxx	2	32-channel - H [A,B]	1	16-channel [B]	2				
	6ES7 321-1BP00-0AA0	7789247xxx	2			32-channel - H [A,B]	2						
	6ES7 321-1EH01-0AA0	7789212xxx	1			16-channel - R	1						
	6ES7 321-1BH50-0AA0	7789234xxx	1	7789293xxx	1	16-channel - H	1						
	6ES7 321-7BH00 / 7BH80-0AB0	7789210xxx	1			16-channel - R	1						
	6ES7 321-1FF01 / 1FF81-0AA0	7789219xxx	1			8-channel - R	1						
	6ES7 321-1EL00-0AA0	7789215xxx	1			32-channel - R	1						
	6ES7 321-1CH80-0AA0	7789211xxx	1			16-channel - R	1						
	6ES7 321-7RD00-0AB0	7789234xxx	1			16-channel - H	1						
Digital output	6ES7 322-1BH01 / 1BH81-0AA0	7789234xxx	1	7789293xxx	1					16-channel [C]	1		
	6ES7 322-1BL00-0AA0	7789236xxx	1	7789293xxx	2					32-channel [A,C]	1		
	6ES7 322-1BP00-0AA0	7789246xxx	2							32-channel [A,C]			
	6ES7 321-1BP50-0AA0	7789246xxx	2							32-channel [A,C]			
	6ES7 322-1EH01-0AA0	7789211xxx	1			16-channel - R	1						
	6ES7 322-1BF01-0AA0	7789239xxx	1							8-channel	1		
	6ES7 322-1FF01 / 1FF81-0AA0	7789219xxx	1			8-channel - R	1						
	6ES7 322-1HF01-0AA0	7789220xxx	1			16-channel - R [D]	1						
	6ES7 322-8BF00-0AB0	7789239xxx	1							8-channel	1		
	6ES7 322-1HH00-0AA0	7789214xxx	1			16-channel - R	1						
	6ES7 322-1EL00-0AA0	7789211xxx	2			16-channel - R	2						
	6ES7 322-1HF10 / 1HF80-0AA0	7789190xxx	1			16-channel - R [D]	1						
	6ES7 322-1CF80-0AA0	7789191xxx	1			8-channel - R	1						
	6ES7 322-5SD00-0AB0	7789192xxx	1			8-channel - H	1						
	6ES7 322-5RD00-0AB0	7789192xxx	1			8-channel - H	1						
Digital I/O	6ES7 323-1BH00 / 1BH80-0AA0	7789237xxx	1			8-channel - H	1			8-channel	1		
	6ES7 323-1BL00-0AA0	7789236xxx	1	7789293xxx	2	16-channel - H	1	16-channel	1	16-channel	1		
	6ES7 312-5BD00-0AB0 (312C)	7789221xxx	1			12-channel - H [E]	1			8-channel [E]	1		
	6ES7 313-6CE00-0AB0 (313C-2DP)	7789222xxx	1			16-channel - H	1			16-channel	1		
	6ES7 313-6BE00-0AB0 (313C-2PtP)	7789222xxx	1			16-channel - H	1			16-channel	1		
Digital and Anal. I/O	6ES7 313-5BE00-0AB0 (313C)	7789222xxx	1			16-channel - H	1			16-channel	1		
		7789223xxx	1			8-channel - H	1					8-channel P	1
	6ES7 314-6CF00-0AB0 (314C-2DP)	7789222xxx	1			16-channel - H	1			16-channel	1		
		7789223xxx	1			8-channel - H	1					8-channel P	1
	6ES7 314-6BF00-0AB0 (314C-2PtP)	7789222xxx	1			16-channel - H	1			16-channel	1		
		7789223xxx	1			8-channel - H	1					8-channel P	1
Anal. Input	6ES7 331-7KF01 / 7KF02-0AB0	7789229xxx	1									8-channel	1
	6ES7 331-7NF00-0AB0	7789231xxx	1									16-channel	1
	6ES7 331-7RD00-0AB0	7789193xxx	1									4-channel	1
	6ES7 331-7RD00-0AB0	7789194xxx	1									4-channel	1
	6ES7 331-7SF00-0AB0	7789229xxx	1									8-channel	1
	6ES7 331-7PF00-0AB0	7789230xxx	1									8-channel	1
	6ES7 331-7KB01 / 7KB81-0AB0	7789224xxx	1									4-channel	1
Anal. Output	6ES7 332-5HD01-0AB0	7789228xxx	1									4-channel	1
	6ES7 332-5HD01-0AB0	7789227xxx	1									4-channel	1
	6ES7 332-5HB01 / 5HB81-0AB0	7789228xxx	1									4-channel	1
	6ES7 332-5HB01 / 5HB81-0AB0	7789227xxx	1									4-channel	1
	6ES7 332-7ND00-0AB0	7789228xxx	1									4-channel	1
	6ES7 332-7ND00-0AB0	7789227xxx	1									4-channel	1
	6ES7 332-5RD00-0AB0	7789195xxx	1									4-channel	1
	6ES7 332-5HF00-0AB0	7789233xxx	1									8-channel	1
Anal. I/O	6ES7 334-0KE00-0AB0	7789196xxx	1									8-channel	1
	6ES7 335-7HG01-0AB0	7789226xxx	1									16-channel	1
	6ES7 334-0CE01-0AA0	7789225xxx	1									16-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example: Cable 2 metres in length: *Order number*: 7789236**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

E) Two channels unused

* All I/O signals with same common.

* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

PLC Siemens - S7-400

	PLC	Cables				Interfaces							
	I/O cards	Standard		SITOP Connection		Digital Direct I/Os		Digital opto-decoupled input		Digital relay output		Anal. input/output	
						- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	6ES7 421-1BL00-0AA0	7789292xxx	1	7789293xxx	2	32-channel - H [A,B]	1	16-channel [B]	2				
	6ES7 421-1EL00-0AA0	7789278xxx	1			32-channel - R	1						
	6ES7 421-1FH00-0AA0	7789273xxx	1			16-channel - R [D]	1						
	6ES7 421-7DH00-0AB0	7789278xxx	1			32-channel - R	1						
	6ES7 421-7BH00-0AB0	7789290xxx	1			16-channel - H	1						
	6ES7 421-1FH20-0AA0	7789273xxx	1			16-channel - R	1						
Digital output	6ES7 422-1BH10-0AA0	7789291xxx	1							16-channel [C]	1		
	6ES7 422-1BL00-0AA0	7789292xxx	1	7789293xxx	2					32-channel [C]	1		
	6ES7 422-1FF00-0AA0	7789283xxx	1			8-channel - R	1						
	6ES7 422-1FH00-0AA0	7789273xxx	1			16-channel - R	1						
	6ES7 422-1HH00-0AA0	7789270xxx	1			32-channel - R	1						
	6ES7 422-5EH10-0AB0	7789291xxx	1							16-channel [C,F]	1		
	6ES7 422-7BL00-0AB0	7789292xxx	1							32-channel [A,C]	1		
Anal. Input	6ES7 431-1KF00-0AB0	7789287xxx	1									8-channel	1
	6ES7 431-1KF00-0AB0	7789286xxx	1									8-channel	1
	6ES7 431-1KF10-0AB0	7789285xxx	1									8-channel	1
	6ES7 431-1KF20-0AB0	7789285xxx	1									8-channel	1
	6ES7 431-7QH00-0AB0	7789284xxx	1									16-channel	1
	6ES7 431-0HH00-0AB0	7789284xxx	1									16-channel	1
Anal. O	6ES7 432-1HF00-0AB0	7789288xxx	1									8-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789292**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

F) Operate the PLC output card with 24 V dc only (this corresponds to the operating voltage of the relay coil)

* All I/O signals with same common.

* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

PLC Télémécanique - Micro

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Anal. input/output	
				- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**TSX DEZ 12D2**	7789312xxx	1	12-channel - H [B)]	1	16-channel [B, E)]	1				
	TSX DEZ 08A4	7789307xxx	1	8-channel - R	1						
	TSX DEZ 12D2K	7789301xxx	1	12-channel - H [B)]	1	16-channel [B, E)]	1				
	TSX DEZ 08A5	7789307xxx	1	8-channel - R	1						
	TSX DEZ 32D2	7789314xxx	1	32-channel - H [A, B)]	1	16-channel [B)]	2				
Digital output	**TSX DSZ 04T22**	7789312xxx	1					8-channel [C)]	1		
	TSX DSZ 08T2	7789312xxx	1					8-channel [C)]	1		
	TSX DSZ 08R5	7789308xxx	1	16-channel - R [D)]	1						
	TSX DSZ 08T2K	7789301xxx	1					8-channel [C)]	1		
	TSX DSZ 32T2	7789314xxx	1					32-channel [A, C)]	1		
	TSX DSZ 32R5	7789330xxx	1	32-channel - R [D)]	1						
Digital Input/Output	**TSX DMZ 28DT**	7789313xxx	1	16-channel - H [B)]	1	16-channel [B)]	1	12-channel [C)]	1		
	TSX DMZ 28DR	7789331xxx	1	16-channel - R [D)]	2						
	TSX DMZ 28AR	7789331xxx	1	16-channel - R [D)]	2						
	TSX DMZ 64DTK (*)	7789301xxx	4	32-channel - H [A, B)]	1	16-channel [B)]	2	32-channel [A, C)]	1		
	TSX DMZ 28DTK	7789301xxx	2	16-channel - H [B)]	1	16-channel [B)]	1	12-channel [C)]	1		
	TSX DMZ 16DTK	7789301xxx	1	16-channel - H	1						
Anal. Input	**TSX 37-22 (integrated)**	7789257xxx	1							9 channels M	1
	TSX AEZ 801	7789311xxx	1							8-channel	1
	TSX AEZ 802	7789311xxx	1							8-channel	1
	TSX AEZ 414	7789309xxx	1							4-channel	1
Anal. Output	**TSX 37-22 (integrated)**	7789257xxx	1							9 channels M	1
	TSX ASZ 401	7789310xxx	1							4-channel	1
	TSX ASZ 200	7789310xxx	1							4-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789301**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

E) Four channels unused

* All I/O signals with same common.

* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

PLC Télémécanique - Premium

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Anal. input/output	
				- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**TSX DEY 08D2**	7789322xxx	1	8-channel - H	1		1				
	TSX DEY 16D2	7789322xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	TSX DEY 16D3	7789322xxx	1	16-channel - H [B, G)]	1	16-channel [B)]	1				
	TSX DEY 16A2 [1)]	7789315xxx	1	16-channel - R	1		1				
	TSX DEY 16A3	7789315xxx	1	16-channel - R	1		1				
	TSX DEY 16A4	7789315xxx	1	16-channel - R	1		1				
	TSX DEY 16A5	7789315xxx	1	16-channel - R [D)]	1		1				
	TSX DEY 16FK (*)	7789301xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	TSX DEY 32D2K (*)	7789301xxx	2	32-channel - H [A, B)]	1	16-channel [B)]	2				
	TSX DEY 64D2K (*)	7789301xxx	4	32-channel - H [A, B)]	2	16-channel [B)]	4				
Digital output	**TSX DSY 08T2**	7789322xxx	1					8-channel [C)]	1		
	TSX DSY 08T22	7789317xxx	1	8-channel - R	1						
	TSX DSY 16T2	7789322xxx	1					16-channel [C)]	1		
	TSX DSY 08T31	7789317xxx	1	8-channel - R	1						
	TSX DSY 16T3	7789322xxx	1	16-channel - H [G)]	1						
	TSX DSY 08R5	7789316xxx	1	16-channel - R [D)]	1						
	TSX DSY 16R5	7789316xxx	1	16-channel - R [D)]	1						
	TSX DSY 08R5A	7789318xxx	1	16-channel - R [D)]	1						
	TSX DSY 08R4D	7789318xxx	1	16-channel - R	1						
	TSX DSY 08S5	7789316xxx	1	16-channel - R [D)]	1						
	TSX DSY 16S4	7789316xxx	1	16-channel - R	1						
	TSX DSY 32T2K (*)	7789301xxx	2					32-channel [A,C)]	1		
	TSX DSY 64T2K (*)	7789301xxx	4					32-channel [A,C)]	2		
Anal. Input	**TSX AEY 414**	7789320xxx	1							4-channel	1
	TSX AEY 414	7789319xxx	1							8-channel	1
	TSX AEY 420	7789259xxx	1							8-channel P	1
	TSX AEY 800	7789259xxx	1							8-channel P	1
	TSX AEY 810	7789261xxx	1							8-channel P	1
	TSX AEY 1600	7789259xxx	2							8-channel P	2
Anal. Output	**TSX ASY 410**	7789320xxx	1							4-channel	1
	TSX ASY 410	7789321xxx	1							4-channel	1
	TSX ASY 800	7789259xxx	1							8-channel P	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789301**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

G) Only use modules without LED

1) Use in ac mode

* All I/O signals with same common.

* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

PLC Télémécanique - Twido

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Anal. input/output	
				- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**TWD DDI 8DT**	7789100xxx	1	8-channel - H	1						
	TWD DDI 16DT	7789100xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	TWD DDI 16DK [1)]	7789328xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	TWD DDI 32DK [1)]	7789328xxx	2	32-channel - H [A, B)]	1	16-channel [B)]	2				
Digital output	**TWD DDO 8UT**	7789100xxx	1	8-channel - H	1						
	TWD DDO 8TT	7789100xxx	1					8-channel [C)]	1		
	TWD DDO 16UK	7789328xxx	1	16-channel - H	1						
	TWD DDO 16TK	7789329xxx	1					16-channel [C)]	1		
	TWD DDO 32UK	7789328xxx	2	32-channel - H [A)]	1						
	TWD DDO 32TK	7789329xxx	2					32-channel [A,C)]	1		
	TWD DRA 8RT	7789108xxx	1	8-channel - R	1						
	TWD DRA 16RT	7789104xxx	1	16-channel - R [D)]	1						
Digital I/O	**TWD LMDA 20DTK** [1)]	7789327xxx	1	12-channel - H [B)]	1	16-channel [B)]	1	8-channel [C)]	1		
	TWD LMDA 20DUK [1)]	7789326xxx	1	12-channel - H [B)]	1	16-channel [B)]	1				
				8-channel - H	1						
	TWD LMDA 20DTR	7789100xxx	1	12-channel - H [B)]	1	16-channel [B)]	1				
		7789104xxx	1	16-channel - R [D)]	1						
	TWD LMDA 40DTK [1)]	7789327xxx	2	12-channel - H [B)]	2	16-channel [B)]	2	8-channel [C)]	2		
	TWD LMDA 40DUK [1)]	7789326xxx	2	12-channel - H	2						
				8-channel - H	2						
Anal. I/O	**TWD AMI 2HT**	7789250xxx	1							4-channel	1
	TWD AMO 1HT	7789250xxx	1							4-channel	1
	TWD AMM 3HT	7789250xxx	1							4-channel	1
	TWD ALM 3LT	7789250xxx	1							4-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789100**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

1) Use in positive logic

* All I/O signals with same common.

* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

PLC Télémécanique - Quantum

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Anal. input/output	
				- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	140 DAI 540 00	7789118xxx	1	32-channel - R	1						
	140 DAI 540 00	7789110xxx	1	16-channel - R	1						
	140 DAI 553 00	7789118xxx	1	32-channel - R	1						
	140 DAI 740 00	7789118xxx	1	32-channel - R [D]	1						
	140 DAI 740 00	7789110xxx	1	16-channel - R [D]	1						
	140 DAI 340 00	7789118xxx	1	32-channel - R	1						
	140 DAI 340 00	7789110xxx	1	16-channel - R	1						
	140 DAI 353 00	7789118xxx	1	32-channel - R	1						
	140 DAI 440 00	7789118xxx	1	32-channel - R	1						
	140 DAI 440 00	7789110xxx	1	16-channel - R	1						
	140 DAI 453 00	7789118xxx	1	32-channel - R	1						
	140 DDI 841 00	7789119xxx	1	16-channel - H [B]	1	16-channel [B]	1				
	140 DDI 853 00	7789121xxx	1	32-channel - H [A, B]	1	16-channel [B]	2				
	140 DDI 353 00	7789121xxx	1	32-channel - H [A, B]	1	16-channel [B]	2				
	140 DDI 364 00	7789301xxx	6	32-channel - H [A, B]	3	16-channel [B]	6				
Digital output	140 DAO 840 00	7789118xxx	1	32-channel - R [D]	1						
	140 DAO 840 00	7789112xxx	1	16-channel - R [D]	1						
	140 DAO 842 10	7789113xxx	1	16-channel - R [D]	1						
	140 DDO 353 00	7789121xxx	1					32-channel [A, C]	1		
	140 DDO 843 00	7789120xxx	1					16-channel [C, F]	1		
	140 DDO 364 00	7789301xxx	6					32-channel [A, C]	3		
	140 DRA 840 00	7789118xxx	1	32-channel - R [D]	1						
Dig. I/O	140 DDM 390 00	7789133xxx	1	16-channel - H [B]	1	16-channel [B]	1	8-channel [C]	1		
Anal. Input	140 ACI 030 00	7789125xxx								8-channel	1
	140 ACI 030 00	7789134xxx								8-channel	1
	140 AVI 030 00	7789125xxx								8-channel	1
	140 AVI 030 00	7789134xxx								8-channel	1
	140 ARI 030 10	7789135xxx								8-channel	1
	140 ACI 040 00	7789123xxx								16-channel	1
	140 AII 330 00	7789136xxx								8-channel	1
Anal. Output	140 ACO 020 00	7789124xxx								4-channel	1
	140 ACO 130 00	7789126xxx								8-channel	1
	140 AIO 330 00	7789137xxx								8-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789301**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

F) Operate the PLC output card with 24 V dc only (this corresponds to the operating voltage of the relay coil)

* All I/O signals with same common.

* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

Selection guide

PLC Télémécanique - M340

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Anal. input/output	
				- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**BMX DDI 1602**	7789380xxx	1	16 channels-H (B)	1	16 channels-H (B)	1				
	BMX DDI 1603	7789382xxx	1	16 channels-R	1						
	BMX DDI 3202K	7789387xxx	1	32 channels-H (A) (B)	1	16 channels-H (B)	2				
	BMX DDI 6402K	7789387xxx	2	32 channels-H (A) (B)	2	16 channels-H (B)	4				
	BMX DAI 1602 (1)	7789630xxx	1	16 channels-H (B)	1	16 channels-H (B)	1				
	BMX DAI 1602 (2)	7789382xxx	1	16 channels-R	1						
	BMX DAI 1603	7789382xxx	1	16 channels-R	1						
	BMX DAI 1604	7789382xxx	1	16 channels-R	1						
Digital output	**BMX DAO 1605**	7789383xxx	1	16 channels-R (D) (K)	1						
	BMX DDO 1602	7789380xxx	1					16 channels (C)	1		
	BMX DDO 1612	7789380xxx	1					16 channels (C)	1		
	BMX DDO 3202K	7789387xxx	1					16 channels (C)	2		
	BMX DDO 6402K	7789387xxx	2					16 channels (C)	4		
	BMX DRA 0805	7789633xxx	1	16 channels-R (D)	1						
	BMX DRA 1605	7789384xxx	1	16 channels-R (D)	1						
Digital I/O	**BMX DDM 16025**	7789635xxx	1	8 channels-H 8 channels-R (D)	1 1						
	BMX DDM 16022	7789386xxx	1	8 channels-H	2						
	BMX DDM 3202K	7789387xxx	1	16 channels-H	2						
Anal. Input	**BMX AMI 0410** (3)	7789637xxx	1							4 channels	1
	BMX AMI 0410 (4)	7789638xxx	1							4 channels	1
	BMX ART 0414	7789639xxx	1							16 channels	1
	BMX ART 0814	7789639xxx	2							16 channels	2
Anal. O	**BMX AMO 0210**	7789640xxx	1							4 channels	1
											1
Anal. I/O	**BMX AMM 0600** (3)	7789628xxx	1							4 channels	1
	BMX AMM 0600 (4)	7789629xxx	1							4 channels	

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789236**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

K) Each interface have one common

* All I/O signals with same common.

* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

(1) use in 24 VDC, negative logic

(2) use in 24 VAC

(3) Use this cable for voltage signals.

(4) Use this cable for current signals.

PLC Rockwell - SLC 500

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Anal. input/output	
				- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**1746 - IB32**	7789005xxx	1	32-channel - H [A, B]	1	16-channel [B]	2				
	1746 - IV32	7789670xxx	1	32-channel - H [A]	1						
	1746 - IB16	7789001xxx	1	16-channel - H	1						
	1746 - IC16	7789001xxx	1	16-channel - H	1						
	1746 - IN16	7789001xxx	1	16-channel - H	1						
	1746 - ITB16	7789001xxx	1	16-channel - H	1						
	1746 - ITV16	7789000xxx	1	16-channel - H	1						
	1746 - IV16	7789000xxx	1	16-channel - H	1						
	1746 - IB8	7789100xxx	1	8-channel - H	1						
	1746 - IV8	7789100xxx	1	8-channel - H	1						
Digital output	**1746 - OB32**	7789006xxx	1					32-channel [A, C]	1		
	1746 - OV32	7789006xxx	1	32-channel - H [A]	1						
	1746 - OB16	7789003xxx	1					16-channel [C]	1		
	1746 - OB16E	7789003xxx	1					16-channel [C]	1		
	1746 - OBP16	7789003xxx	1					16-channel [C]	1		
	1746 - OG16	7789003xxx	1	16-channel - H	1						
	1746 - OV16	7789003xxx	1	16-channel - H	1						
	1746 - OVP16	7789003xxx	1	16-channel - H	1						
	1746 - OW16	7789002xxx	1					16-channel [C, F]	1		
	1746 - OB8	7789100xxx	1					8-channel [C]	1		
	1746 - OBP8	7789100xxx	1					8-channel [C]	1		
	1746 - OV8	7789100xxx	1	8-channel - H	1						
	1746 - OW8	7789100xxx	1					8-channel [C, F]	1		
	1746 - OX8	7789100xxx	1	16-channel - H [F]	1						
	1746 - OW4	7789100xxx	1					8-channel [C, F]	1		
Anal. I	**1746 - NI8**	7789011xxx	1							8-channel	1
	1746 - NI4	7789008xxx	1							4-channel	1
Anal. O	**1746 - NO4V**	7789010xxx	1							4-channel	1
	1746 - NO4I	7789010xxx	1							4-channel	1
Anal. I/O	**1746 - NIO4V**	7789009xxx	1							4-channel	1
	1746 - NIO4I	7789009xxx	1							4-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789005**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules
B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module
C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules
F) Operate the PLC output card with 24 V dc only (this corresponds to the operating voltage of the relay coil)
* All I/O signals with same common.
* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

PLC Rockwell - Compact Logix

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Anal. input/output	
				- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**1769 - IA8I**	7789016xxx	1	16-channel - R	1						
	1769 - IM12	7789025xxx	1	16-channel - R	1						
	1769 - IA16	7789025xxx	1	16-channel - R	1						
	1769 - IQ16	7789019xxx	1	16-channel - H	1						
	1769 - IQ16F	7789019xxx	1	16-channel - H	1						
	1769 - IQ32	7789019xxx	2	16-channel - H	2						
Digital output	**1769 - OA8**	7789017xxx	1	8-channel - R	1						
	1769 - OB8	7789015xxx	1					8-channel C)	1		
	1769 - OW8	7789017xxx	1	8-channel - R	1						
	1769 - OW8I	7789016xxx	1	16-channel - R	1						
	1769 - OA16	7789024xxx	1	16-channel - R	1						
	1769 - OB16	7789018xxx	1					16-channel C)	1		
	1769 - OB16P	7789018xxx	1					16-channel C)	1		
	1769 - OV16	7789018xxx	1	16-channel - H	1						
	1769 - OW16	7789024xxx	1	16-channel - R	1						
	1769 - OB32	7789018xxx	2					16-channel C)	2		
Dig. I/O	**1769 - IQ6XOW4**	7789014xxx	1	16-channel - R	1						
Anal. Input	**1769 - IF4**	7789026xxx	1							4-channel	1
		7789046xxx	1							4-channel	1
	1769 - IF4I	7789027xxx	1							4-channel	1
		7789047xxx	1							4-channel	1
	1769 - IF8	7789028xxx	1							8-channel	1
		7789045xxx	1							8-channel	1
Anal. Output	**1769 - OF2**	7789029xxx	1							4-channel	1
	1769 - OF4CI	7789043xxx	1							4-channel	1
	1769 - OF8V	7789044xxx	1							8-channel	1
	1769 - OF8C	7789044xxx	1							8-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789019**020**

Notes concerning the use of interface modules:

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

* All I/O signals with same common.

* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

PLC Rockwell - Control Logix

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Anal. input/output	
				- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**1756-IA16**	7789031xxx	1	16-channel - R	1						
	1756-IA16I	7789030xxx	1	32-channel - R	1						
	1756-IA8D	7789048xxx	1	8-channel - R	1						
	1756 - IB16	7789039xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	1756-IB16D	7789049xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	1756-IB16I	7789049xxx	1	16-channel - H [B)]	1	16-channel [B)]	1				
	1756-IB32	7789041xxx	1	32-channel - H [A, B)]	1	16-channel [B)]	2				
	1756 - IC16	7789031xxx	1	16-channel - R	1						
	1756-IH16I	7789030xxx	1	32-channel - R	1						
	1756-IM16I	7789030xxx	1	32-channel - R [D)]	1						
	1756 - IN16	7789031xxx	1	16-channel - R	1						
Digital output	**1756 - OA16**	7789056xxx	1	16-channel - R [D)]	1						
	1756-OA16I	7789030xxx	1	32-channel - R [D)]	1						
	1756 - OA8	7789057xxx	1	8-channel - R	1						
	1756-OA8D	7789048xxx	1	8-channel - R	1						
	1756-OA8E	7789048xxx	1	8-channel - R	1						
	1756-OB16D	7789040xxx	1					16-channel [C)]	1		
	1756 - OB16E	7789058xxx	1					16-channel [C)]	1		
	1756-OB16I	7789059xxx	1					16-channel [C)]	1		
	1756 - OB32	7789042xxx	1					32-channel [A, C)]	1		
	1756 - OB8	7789151xxx	1					8-channel [C)]	1		
	1756-OB8EI	7789152xxx	1					8-channel [C)]	1		
	1756-OC8	7789153xxx	1	16-channel - R	1						
	1756-OH8I	7789154xxx	1	16-channel - R	1						
	1756-ON8	7789057xxx	1	8-channel - R	1						
	1756-OW16I	7789030xxx	1	32-channel - R [D)]	1						
	1756-OX8I	7789155xxx	1	16-channel - R [D)]	1						
Anal. I	**1756-IF6I**	7789156xxx	1							8-channel	1
	1756-IF6I	7789157xxx	1							8-channel	1
	1756-IF16	7789032xxx	1							16-channel	1
	1756 - IF8	7789035xxx	1							8-channel	1
	1756 - IF8	7789036xxx	1							8-channel	1
	1756-IR6I	7789158xxx	1							8-channel	1
Anal. O	**1756-OF4**	7789033xxx	1							4-channel	1
	1756-OF4	7789034xxx	1							4-channel	1
	1756-OF6VI	7789157xxx	1							8-channel	1
	1756-OF6CI	7789159xxx	1							8-channel	1
	1756-OF8	7789037xxx	1							8-channel	1
	1756-OF8	7789038xxx	1							8-channel	1
	1756-OV16E	7789165xxx	1							16-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789031**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

* All I/O signals with same common.

* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

PLC Fanuc 90-30 and Alspa 8035

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Anal. input/output	
				- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**IC693MDL230**	7789064xxx	1	16-channel - R	1						
	IC693MDL231	7789064xxx	1	16-channel - R [D]	1						
	IC693MDL240	7789061xxx	1	16-channel - R	1						
	IC693MDL241	7789067xxx	1	16-channel - H [B, H]	1	16-channel [B, H]	1				
	IC693MDL630	7789067xxx	1	8-channel - H	1						
	IC693MDL632	7789634xxx	1	8-channel - R	1						
	IC693MDL634	7789067xxx	1	8-channel - H [H]	1						
	IC693MDL640	7789067xxx	1	16-channel - H [B]	1	16-channel [B]	1				
	IC693MDL643	7789067xxx	1	16-channel - H [B]	1	16-channel [B]	1				
	IC693MDL645	7789067xxx	1	16-channel - H [B, H]	1	16-channel [B, H]	1				
	IC693MDL646	7789067xxx	1	16-channel - H [B, H]	1	16-channel [B, H]	1				
	IC693MDL654	7789066xxx	2	32-channel - H [A, B, H]	1	16-channel [B, H]	2				
	IC693MDL655	7789066xxx	2	32-channel - H [A, B, H]	1	16-channel [B, H]	2				
Digital output	**IC693MDL310**	7789063xxx	1	16-channel - R	1						
	IC693MDL340	7789063xxx	1	16-channel - R	1						
	IC693MDL730	7789069xxx	1					8-channel [C, F]	1		
	IC693MDL731	7789069xxx	1	8-channel - H	1						
	IC693MDL732	7789068xxx	1					8-channel [C, F]	1		
	IC693MDL733	7789068xxx	1	8-channel - H	1						
	IC693MDL740	7789068xxx	1					16-channel [C, F]	1		
	IC693MDL741	7789068xxx	1	16-channel - H	1						
	IC693MDL742	7789068xxx	1					16-channel [C, F]	1		
	IC693MDL752	7789066xxx	2	32-channel - H [A]	1						
	IC693MDL753	7789066xxx	2					32-channel [A, C]	1		
Anal. Input	**IC693ALG220**	7789076xxx	1							4-channel	1
	IC693ALG221	7789075xxx	1							4-channel	1
	IC693ALG222	7789072xxx	1							8-channel	1
	IC693ALG223	7789072xxx	1							8-channel	1
Anal. O	**IC693ALG390**	7789073xxx	1							8-channel	1
	IC693ALG391	7789073xxx	1							8-channel	1
Anal. I/O	**IC693ALG442**	7789074xxx	1							16-channel	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789067**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

F) Operate the PLC output card with 24 V dc only (this corresponds to the operating voltage of the relay coil)

H) Use the PLC I/O card in positive logic only

* All I/O signals with same common.

* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

PLC OMRON CQM1

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Anal. input/output	
				- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**ID211**	7789646xxx	1	16-channel - H	1						
	ID212	7789647xxx	1	16-channel - H [B, H]	1	16-channel [B, H]	1				
	ID213	7789370xxx	1	32-channel - H [B, H]	1	16-channel [B, H]	2				
	IA121	7789652xxx	1	8-channel - R	1						
	IA221	7789652xxx	1	8-channel - R	1						
Digital output	**OC221**	7789653xxx	1	8-channel - R	1						
	OC222	7789654xxx	1	16-channel - R	1						
	OD211	7789653xxx	1	8-channel - H	1						
	OD212	7789655xxx	1	16-channel - H	1						
	OD213	7789372xxx	1					32-channel [A, C]	1		
	OD214	7789655xxx	1					16-channel [C]	1		
	OA221	7789656xxx	1	8-channel - R	1						
Anal. I	**AD041**	7789252xxx	1		1					8-channel [J]	1
					1						
Anal. O	**DA021**	7789250xxx	1		1					4-channel [J]	1

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789143**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

H) Only for positive logic, for negative logic invert the polarity of the source on the interface.

J) The PLC connector is not included. The wires of the cable are free and equiped with ferrules.

* All I/O signals with same common.

* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

Selection guide

PLC OMRON C200H

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Anal. input/output	
				- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**ID211**	7789100xxx	1	8-channel - H [J]	1						
	ID001	7789100xxx	1	8-channel - H [J]	1						
	ID002	7789100xxx	1	8-channel - H [J]	1						
	IA121	7789108xxx	1	8-channel - R [J]	1						
	IA122	7789104xxx	1	16-channel - R [J]	1						
	IM211	7789108xxx	1	8-channel - H [J]	1						
	ID212	7789100xxx	1	16-channel - H [B, J]	1	16-channel [B, J]	1				
	IA122-V	7789104xxx	1	16-channel - R [J]	1						
	IA222-V	7789104xxx	1	16-channel - R [J]	1						
	IM212	7789100xxx	1	16-channel - H [B, J]	1	16-channel [B, J]	1				
	ID216	7789370xxx	1	32-channel - H [A, B, H]	1	16-channel [B]	2				
	ID217	7789370xxx	2	32-channel - H [A, B, H]	2	16-channel [B]	4				
Digital output	**OC221**	7789108xxx	1	8-channel - R [J]	1						
	OC224-V	7789104xxx	1	16-channel - R [J]	1						
	OC223	7789108xxx	1	8-channel - R [J]	1						
	OD214	7789100xxx	1		1			8-channel [C, J]	1		
	OD411	7789100xxx	1	8-channel - H [J]	1						
	OD213	7789100xxx	1	8-channel - H [J]	1						
	OA221	7789108xxx	1	8-channel - R [J]	1						
	OC222-V	7789104xxx	1	16-channel - R [J]	1						
	OD217	7789100xxx	1		1			12-channel [C, J]	1		
	OD211	7789100xxx	1	12-channel - H [J]	1						
	OA222-V	7789104xxx	1	16-channel - R [J]	1						
	OC225	7789104xxx	1	16-channel - R [J]	1						
	OD212	7789100xxx	1	16-channel - H [J]	1						

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789142**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules
B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module
C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules
D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)
H) Only for positive logic, for negative logic invert the polarity of the source on the interface.
J) The PLC connector is not included. The wires of the cable are free and equiped with forks.
* All I/O signals with same common.
* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

PLC OMRON CJ1W

	PLC	Cables		Interfaces							
	I/O cards	Standard		Digital direct input/output		Digital opto-decoupled input		Digital relay output		Anal. input/output	
				- see page C.20 -		- see page C.38 -		- see page C.42 -		- see page C.54 -	
	Manufacturer order number	Order No.	Qty	Type	Qty	Type	Qty	Type	Qty	Type	Qty
Digital input	**ID211**	7789645xxx	1	16-channel - H [B, H]	1	16-channel [B]	1				
	ID231	7789370xxx	1	32-channel - H [A, B, H]	1	16-channel [B]	2				
	ID232	7789371xxx	1	32-channel - H [A, B, H]	1	16-channel [B]	2				
	ID261	7789370xxx	2	32-channel - H [A, B, H]	2	16-channel [B]	4				
	ID262	7789371xxx	2	32-channel - H [A, B, H]	2	16-channel [B]	4				
	IA111	7789664xxx	1	16-channel - R	1						
	IA201	7789648xxx	1	8-channel - R	1						
Digital output	**OC201**	7789649xxx	1	16-channel - R	1						
	OC211	7789664xxx	1	16-channel - R	1						
	OD201	7789650xxx	1	8-channel - H	1						
	OD202	7789650xxx	1					8-channel [C]	1		
	OD211	7789651xxx	1					16-channel [C]	1		
	OD212	7789651xxx	1					16-channel [C]	1		
	OD231	7789372xxx	1					32-channel [A, C]	1		
	OD232	7789373xxx	1					32-channel [A, C]	1		
	OD233	7789373xxx	1	32-channel - H [A]	1						
	OD261	7789372xxx	2	32-channel - H [A]	2						
	OD263	7789373xxx	2	32-channel - H [A]	2						
	OA201	7789648xxx	1	8-channel - R	1						

Notes concerning cable lengths:

The suffix **xxx** of the *"Order number"* shows the length of the cable in **dm**.
The standard lengths are: 1.00 m (**010**) - 1.50 m (**015**) - 2.00 m (**020**) - 3.00 m (**030**) - 5.00 m (**050**)

Example:

Cable 2 metres in length: *Order number*: 7789100**020**

Notes concerning the use of interface modules:

A) 32-channel modules equipped with 2 HE 10 connectors (H-system) can always be replaced with 2 x 16-channel modules

B) For the inputs, it is possible to use either a digital direct input/output module or an opto-decoupled input module

C) For the outputs, it is possible to replace the relay output modules with digital direct input/output modules

D) The rated voltage for the I/O card used must be taken into consideration when selecting a digital input/output module for the R-system. If the voltage exceeds 160 V, the following modules only can be used:
- 8-channel: 944154 (RS8ES-DP RSV1.6/V), 16-channel: 944186 (RS16ES-I RSV1.6/V), 32-channel: 944187 (RS32ES-I RSV1.6/V)

H) Only for positive logic, for negative logic invert the polarity of the source on the interface.

* All I/O signals with same common.

* Additional technical information about pre-assembled cable avaliable in ON-line catalog http://www.weidmueller.com

Module overview - Direct inputs/outputs for digital cards

Type			Functionalities						Modules		
No. of channels	H or R System	Type of wiring	Compact version	Connection: Screw	Connection: Tension c.	1 LED per chan.	Disconnectable	Fuse	Order No.	Type	Page
8 channels	H System	2-wire		●		●			**9445530000**	RS 8ES-D-L H/V	**C.21**
	R System	2-wire		●					9441540000 (*)	RS8ES-DP RSV1,6/V	**C.21**
12 chan.	H System	2-wire		●		●			9445630000	RS 12ES-D-L H/V	**C.22**
16 channels	H System	1-wire	✕	●					**9445700000**	RS 16ES H/V	**C.23**
			✕	●		●			**9445710000**	RS 16ES-L H/V	**C.23**
					●				9447700000 (*)	RS 16ES H/Z	**C.23**
					●	●			9447710000	RS 16ES-L H/Z	**C.23**
				●		●	⟷		9445810000	RS 16ES-S-I-L H/V	**C.23**
		2-wire	✕	●					**9445720000**	RS 16ES-D H/V	**C.24**
			✕	●		●			**9445730000**	RS 16ES-D-L H/V	**C.24**
					●	●			9447730000	RS 16ES-D-L H/Z	**C.24**
			✕	●		●	⟷		9445750000	RS 16ES-D-I-L H/V	**C.24**
					●	●	⟷		9447750000 (*)	RS 16ES-D-I-L H/Z	**C.24**
				●				▭	9445820000	RS 16ES-D-F H/V	**C.25**
		3-wire	✕	●					**9445760000**	RS 16ES-T H/V	**C.25**
			✕	●		●			**9445770000**	RS 16ES-T-L H/V	**C.25**
					●	●			9447770000	RS 16ES-T-L H/Z	**C.25**
	R System	1-wire		●					9441500000	RS16ES RSV1,6/V	**C.26**
				●			⟷		9441860000	RS16ES-I RSV1,6/V	**C.26**
		2-wire		●					9441700000	RS16ES-DP RSV1,6/V	**C.27**
				●				▭	9441560000	RS16ES-DP/F RSV1,6/V	**C.27**
		3-wire		●			⟷		9441600000 (*)	RS16E-3E/I RSV1,6/V	**C.28**
32 channels	H System	1-wire	✕	●					**9445900000**	RS 32ES H/V	**C.29**
			✕	●		●			**9445910000**	RS 32ES-L H/V	**C.29**
					●				9447900000 (*)	RS 32ES H/Z	**C.29**
					●	●			9447910000	RS 32ES-L H/Z	**C.29**
				●		●	⟷		9445870000	RS 32ES-S-I-L H/V	**C.30**
		2-wire	✕	●		●			**9445930000**	RS 32ES-D-L H/V	**C.31**
					●	●			9447930000	RS 32ES-D-L H/Z	**C.31**
			✕	●		●	⟷		9445950000	RS 32ES-D-I-L H/V	**C.32**
					●	●	⟷		9447950000 (*)	RS 32ES-D-I-L H/Z	**C.32**
				●				▭	9445980000	RS 32ES-D-F H/V	**C.33**
		3-wire	✕	●					**9445960000**	RS 32ES-T H/V	**C.34**
			✕	●		●			**9445970000**	RS 32ES-T-L H/V	**C.34**
					●	●			9447970000	RS 32ES-T-L H/Z	**C.34**
	R System	1-wire		●					**9441510000**	RS32ES RSV1,6/V	**C.35**
				●			⟷		9441870000	RS32ES-I RSV1,6/V	**C.35**
		2-wire		●					**9441710000**	RS32ES-DP RSV1,6/V	**C.36**
				●				▭	9441570000 (*)	RS32ES-DP/F RSV1,6/V	**C.36**
		3-wire		●			⟷		**9441610000**	RS32E-3E/I RSV1,6/V	**C.37**

Note: Preferably articles in bold (*) under demand

For 8-channel digital I/O cards
H System and R System

RS ES-D - 8-channel

H-System – 2-wire (common + or –)
Version: screw connection

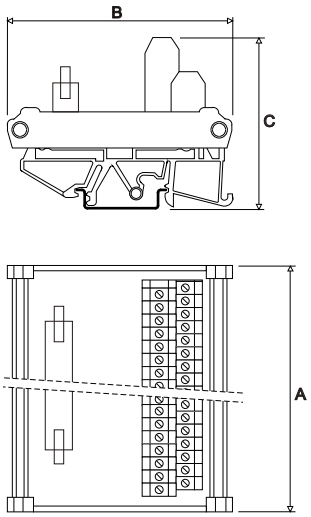


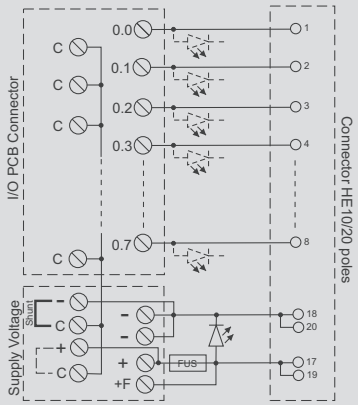
RS ES-DP - 8-channel

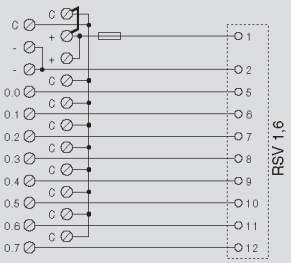
R-System – 2-wire (common + or –)
Version: screw connection



Dimensions







Technical data

		RS ES-D - 8-channel	RS ES-DP - 8-channel
Connection			
Connection to PLC		HE 10 connector - 20 pole	RSV 1.6 connector – 12 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid			
Input-Output Data			
Operating voltage		24 V DC ± 10%	250 V max
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	–
LED status indication per channel		Green	–
Polarity distribution		+ or – selectable with a jumper	+ or – selectable with a jumper
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	max 250 V
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	250 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	1.7 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	74 x 87.5 x 72	68 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires (**) No main-circuits

Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED			RS8ES-DP RSV1,6/V	**9441540000** (1)
Screw connection with LED	RS 8ES-D-L H/V	**9445530000**		
Tension clamp connection without LED				
Tension clamp connection with LED				
Note			(1) on demand	

Direct inputs/outputs for digital cards

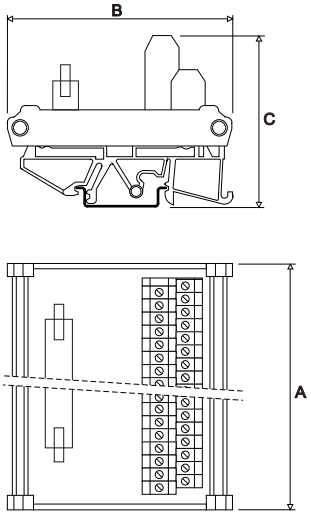
For 12-channel digital I/O cards System H

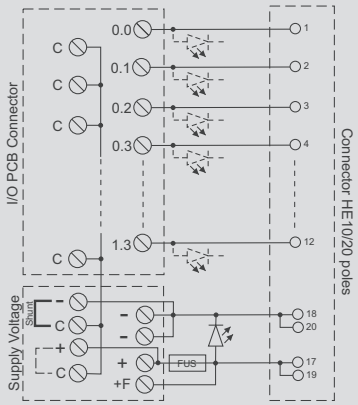
RS ES-D - 12-channel

H-System – 2-wire (common + or –)
Version: screw connection



Dimensions





Technical data

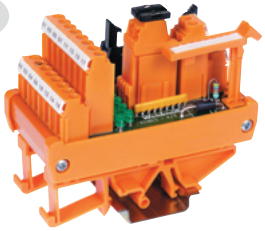
Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		
Input-Output Data		
Operating voltage		24 V DC ± 10%
Max. current per channel		1 A (*)
Max. total current		3 A
Fuse per channel		–
Disconnection per channel		–
LED status indication per channel		Green
Polarity distribution		+ or – selectable with a jumper
Max. current of joint potential		3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow
PLC card supply current		2 A
PLC card supply current fuse		3.15 A
Insulation coordination (EN50178)		
Rated voltage		< 50 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		0.5 KV DC
Ambient temperature		-25…50 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	95 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires

Ordering data

	Type	Order No.
Screw connection without LED		
Screw connection with LED	RS 12ES-D-L H/V	**9445630000**
Tension clamp connection without LED		
Tension clamp connection with LED		
Note		

For 16-channel digital I/O cards System H

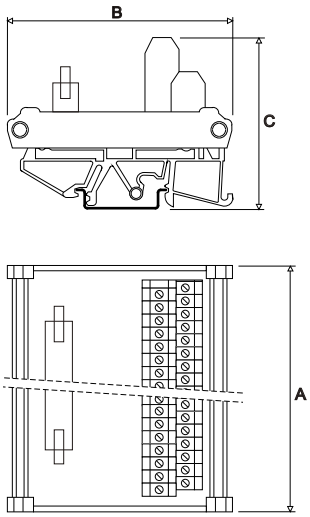
RS ES-S - 16-channel

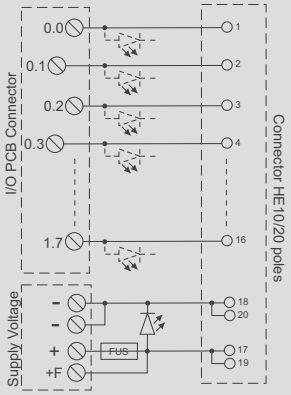


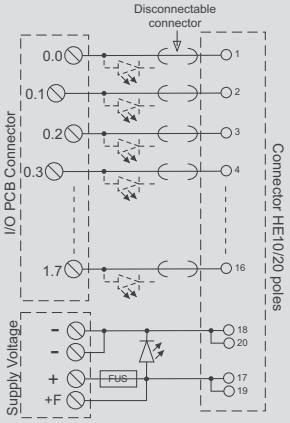
RS ES-S-I - 16 disconnectable channels



Dimensions







Technical data

Connection			
Connection to PLC		HE 10 connector - 20 pole	HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)	
Input-Output Data			
Operating voltage		≤ 25 V AC 50 V DC (version without LED) / 24 V DC ± 10% (versions with LED)	24 V DC ± 10%
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	Yes - each channel
LED status indication per channel		Green (versions with LED)	Green
Polarity distribution		–	–
Max. current of joint potential		–	–
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	24 V DC / LED yellow
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	81 x 87.5 x 72	110 x 87.5 x72
	version mm	46 x 87.5 x 72	
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

	Type		Order No.
Screw connection without LED	RS 16ES H/V C		9445700000
Screw connection with LED	RS 16ES-L H/V C		9445710000
Tension clamp connection without LED	RS 16ES H/Z		9447700000 (1)
Tension clamp connection with LED	RS 16ES-L H/Z		9447710000
Note	: compact version (1) on demand		

Type	Order No.
RS 16ES-S-I-L H/V	9445810000

Direct inputs/outputs for digital cards

For 16-channel digital I/O cards System H

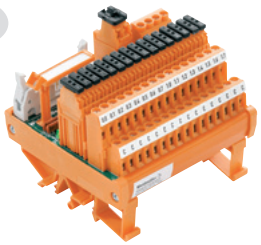
RS ES-D - 16-channel

H-System – 2-wire (common + or –)
Versions: screw / tension clamp connection - compact

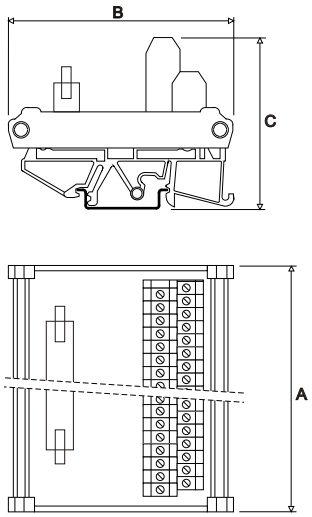


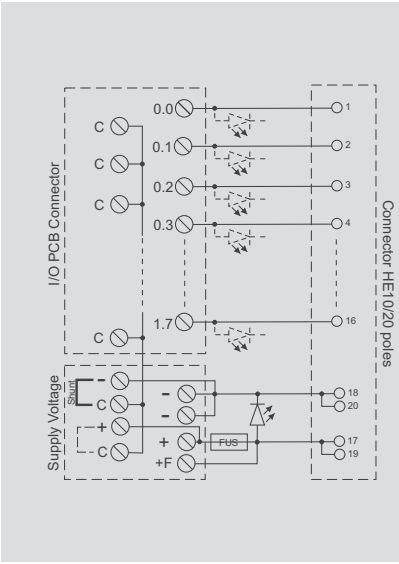
RS ES-D-I - 16 disconnectable channels

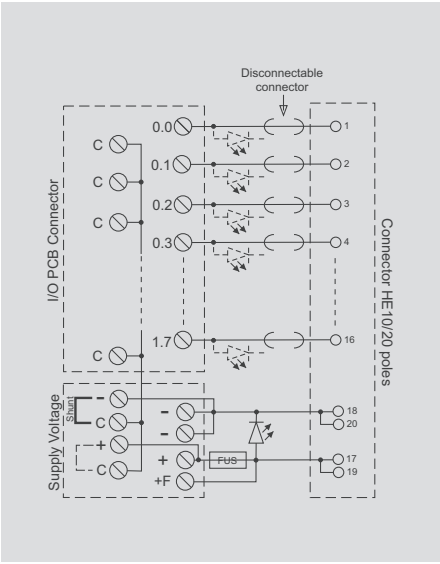
H-System – 2-wire (common + or –)
Versions: screw / tension clamp connection - compact



Dimensions







Technical data

		RS ES-D - 16-channel	RS ES-D-I - 16 disconnectable channels
Connection			
Connection to PLC		HE 10 connector - 20 pole	HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)	0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input-Output Data			
Operating voltage		≤ 25 V AC 50 V DC (version without LED) / 24 V DC ± 10% (versions with LED)	24 V DC ± 10%
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	Yes - each channel
LED status indication per channel		Green (versions with LED)	Green
Polarity distribution		+ or – selectable with a jumper	+ or – selectable with a jumper
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	24 V DC / LED yellow
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	117 x 87.5 x 72	119 x 87.5 x 72
	version mm	87 x 87.5 x 72	90 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED	RS 16ES-D H/V C	**9445720000**		
Screw connection with LED	RS 16ES-D-L H/V C	**9445730000**	RS 16ES-D-I-L H/V C	**9445750000**
Tension clamp connection without LED				
Tension clamp connection with LED	RS 16ES-D-L H/Z	**9447730000**	RS 16ES-D-I-L H/Z	**9447750000** (1)
Note	**: compact version**		**: compact version** (1) on demand	

For 16-channel digital I/O cards System H

RS ES-D-F - 16-channel with fuse

H-System – 2-wire (common + or –)
Version: screw connection

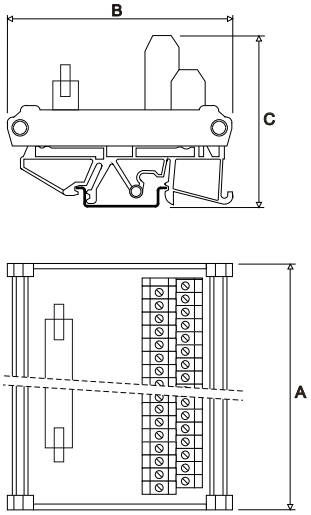


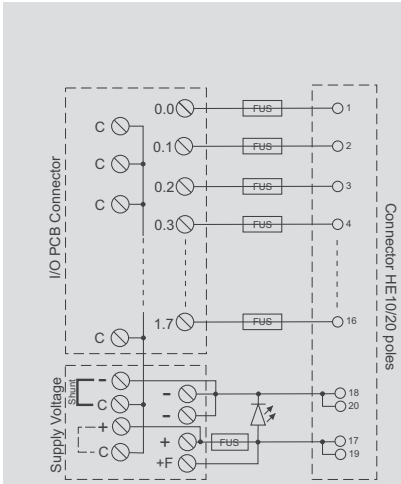
RS ES-T - 16-channel

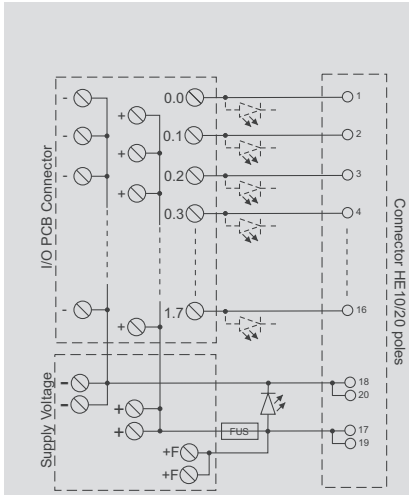
H System – 3-wire (common + and –)
Versions: screw / tension clamp connection - compact



Dimensions







Technical data

		RS ES-D-F - 16-channel with fuse	RS ES-T - 16-channel
Connection			
Connection to PLC		HE 10 connector - 20 pole	HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid			0.5…1.5 / 0.5…1.5 mm² (AWG 16…26)
Input-Output Data			
Operating voltage		≤ 25V AC 50 V DC	≤ 25 V AC 50 V DC (version without LED) / 24 V DC ± 10% (versions with LED)
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		0.5 A fuse on each channel	–
Disconnection per channel		–	–
LED status indication per channel		–	Green (versions with LED)
Polarity distribution		+ or – selectable with a jumper	+ and –
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	24 V DC / LED yellow
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	122 x 87.5 x 72	110 x 87.5 x72
	version mm		90 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

	RS ES-D-F - 16-channel with fuse		RS ES-T - 16-channel	
	Type	**Order No.**	**Type**	**Order No.**
Screw connection without LED	RS 16ES-D-F H/V	**9445820000**	RS 16ES-T H/V	**9445760000**
Screw connection with LED			RS 16ES-T-L H/V	**9445770000**
Tension clamp connection without LED				
Tension clamp connection with LED			RS 16ES-T-L H/Z	**9447770000**
Note			: compact version	

Direct inputs/outputs for digital cards

For 16-channel digital I/O cards
System R

RS ES - 16-channel

System R – 1-wire cabling
Version: screw connection

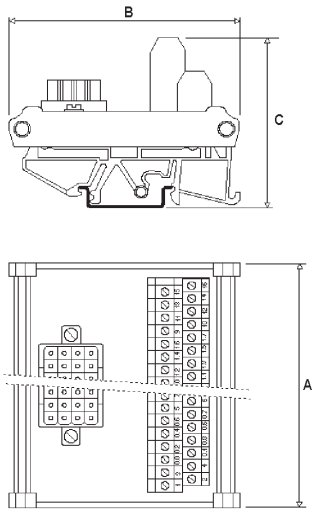


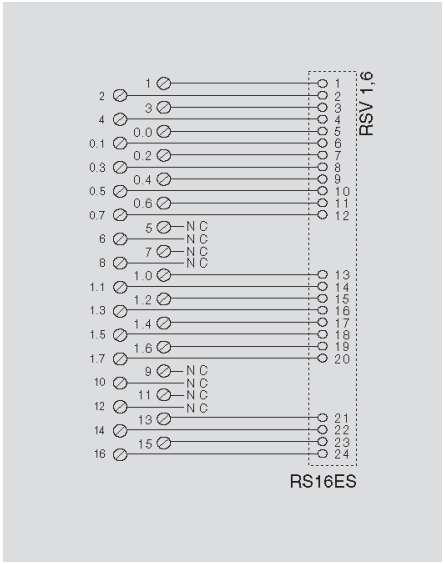
RS ES-I – 16 disconnectable channels

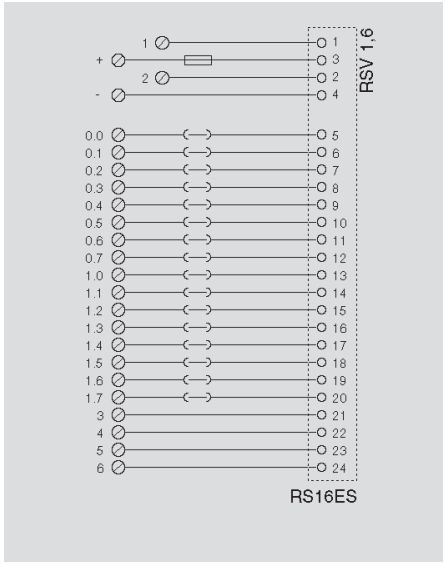
System R – 1-wire cabling
Version: screw connection



Dimensions







Technical data

		RS ES - 16-channel	RS ES-I – 16 disconnectable channels
Connection			
Connection to PLC		RSV 1.6 connector - 24 pole	RSV 1.6 connector - 24 pole
Connection type V (screw clamp) Flexible/Solid		0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid			
Input-Output Data			
Operating voltage		max 150 V UC	250 V max
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	Yes - each channel
LED status indication per channel		–	–
Polarity distribution		–	–
Max. current of joint potential		–	–
PLC card supply voltage / LED voltage status		max 150 V	max 250 V
PLC card supply current		2 A	2 A
PLC card supply current fuse		–	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 150 V AC	250 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		1.1 KV DC	1.7 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	97 x 87.5 x 68	127 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires (**) No main-circuits	(*) Observe the max. permissible current for the common wires (**) No main-circuits

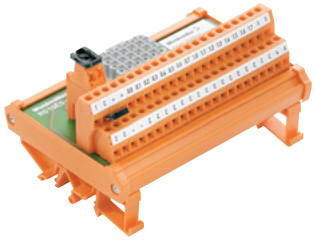
Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED	RS16ES RSV1,6/V	**9441500000**	RS16ES-I RSV1,6/V	**9441860000**
Screw connection with LED				
Note				

For 16-channel digital I/O cards System R

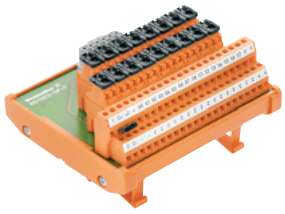
RS ES-DP - 16-channel

R-System – 2-wire (common + or –)
Version: screw connection

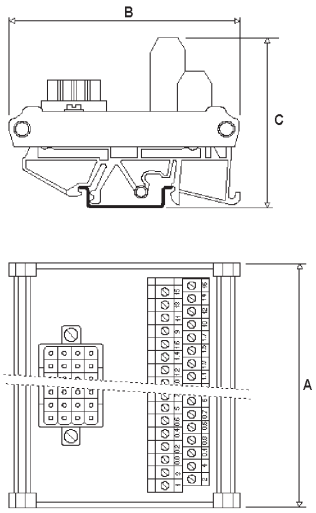


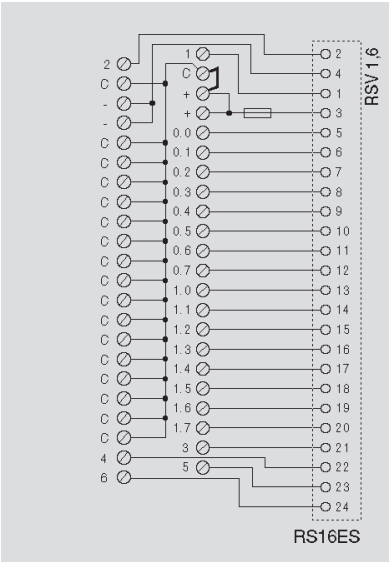
RS ES-DP/F - 16-channel with fuse

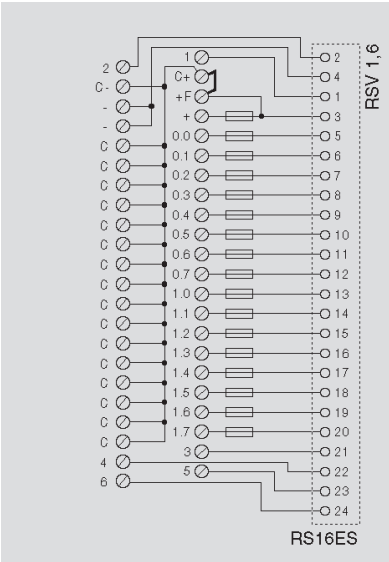
R-System – 2-wire (common + or –)
Version: screw connection



Dimensions







Technical data

Connection			
Connection to PLC		RSV 1.6 connector - 24 pole	RSV 1.6 connector - 24 pole
Connection type V (screw clamp) Flexible/Solid		0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)	0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)
Connection type Z (tension clamp) Flexible/Solid			
Input-Output Data			
Operating voltage		max 150 V UC	max 150 V UC
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	1 A fuse on each channel
Disconnection per channel		–	–
LED status indication per channel		–	–
Polarity distribution		+ or – selectable with a jumper	+ or – selectable with a jumper
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		max 150 V UC	max 150 V UC
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 150 V AC	< 150 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		1.1 KV DC	1.1 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	123 x 87.5 x 72	123 x 109 x 72
Note		(*) Observe the max. permissible current for the common wires (**) No main-circuits	(*) Observe the max. permissible current for the common wires (**) No main-circuits

Ordering data

	Type	Order No.
Screw connection without LED	RS16ES-DP RSV1,6/V	**9441700000**
Screw connection with LED		

	Type	Order No.
	RS16ES-DP/F RSV1,6/V	**9441560000**

Note

Direct inputs/outputs for digital cards

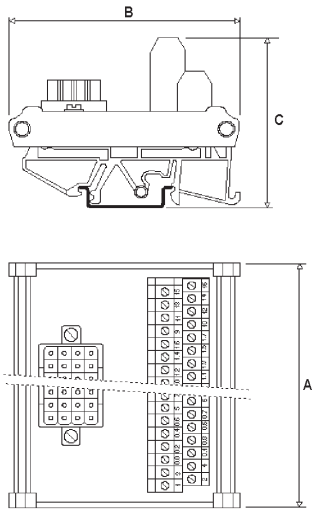
For 16-channel digital I/O cards System R

RS ES-3 E/I - 16 disconnectable channels

R System – 3-wire (common + and –)
Version: screw connection



Dimensions





Technical data

Connection		
Connection to PLC		RSV 1.6 connector - 24 pole
Connection type V (screw clamp) Flexible/Solid		0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)
Connection type Z (tension clamp) Flexible/Solid		
Input-Output Data		
Operating voltage		max 150 V UC
Max. current per channel		1 A (*)
Max. total current		3 A
Fuse per channel		–
Disconnection per channel		Yes - each channel
LED status indication per channel		–
Polarity distribution		+ and –
Max. current of joint potential		3 A
PLC card supply voltage / LED voltage status		max 150 V UC
PLC card supply current		
PLC card supply current fuse		3.15 A
Insulation coordination (EN50178)		
Rated voltage		< 150 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.1 KV DC
Ambient temperature		-25…50 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	116 x 109 x 84

Note	(*) Observe the max. permissible current for the common wires (**) No main-circuits

Ordering data

	Type	Order No.
Screw connection without LED	RS16E-3E/I RSV1,6/V	**9441600000** (1)
Screw connection with LED		

Note	(1) on demand

For 32-channel digital I/O cards System H

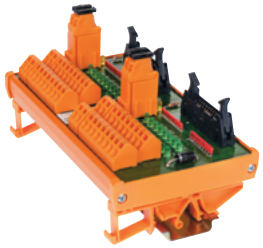
RS ES-S - 32-channel

H System – 1-wire
Version: screw connection - compact

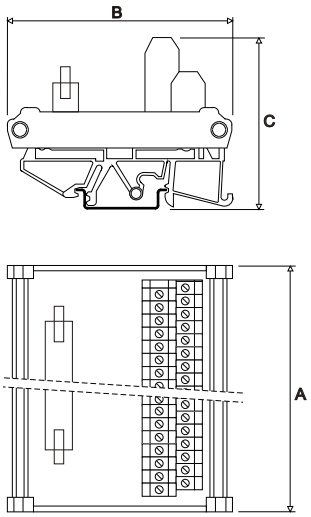


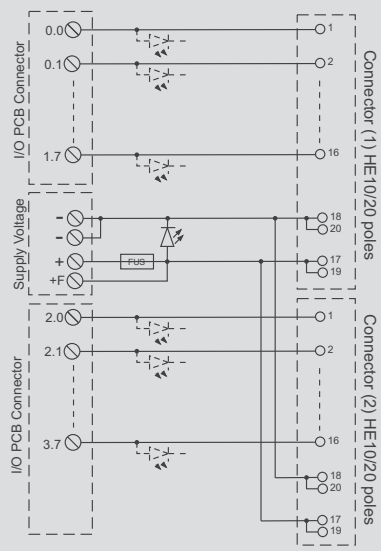
RS ES-S - 32-channel

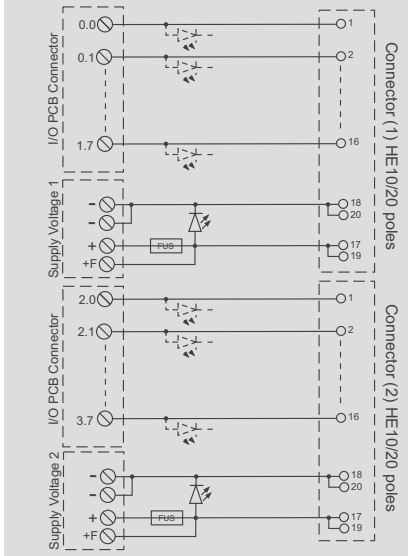
H System – 1-wire
Version: tension clamp



Dimensions







Technical data

Connection			
Connection to PLC		2 x HE 10 connectors - 20 pole	2 x HE 10 connectors - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	
Connection type Z (tension clamp) Flexible/Solid			0.5…1.5 / 0.5…1.5 mm² (AWG 16…26)
Input-Output Data			
Operating voltage		≤ 25V AC 50 V DC (version without LED) / 24 V DC ± 10% (versions with LED)	≤ 25V AC 50 V DC (version without LED) / 24 V DC ± 10% (versions with LED)
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	–
LED status indication per channel		Green (version with LED)	Green (version with LED)
Polarity distribution		–	–
Max. current of joint potential		–	–
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	2 x 24 V DC / LED yellow (for each 16-channel block)
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	version mm	90 x 87.5 x 72	
Length A x width B x height C	mm		145 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED	RS 32ES H/V	9445900000		
Screw connection with LED	RS 32ES-L H/V	9445910000		
Tension clamp connection without LED			RS 32ES H/Z	9447900000 (1)
Tension clamp connection with LED			RS 32ES-L H/Z	9447910000
Note	: compact version		(1) on demand	

Direct inputs/outputs for digital cards

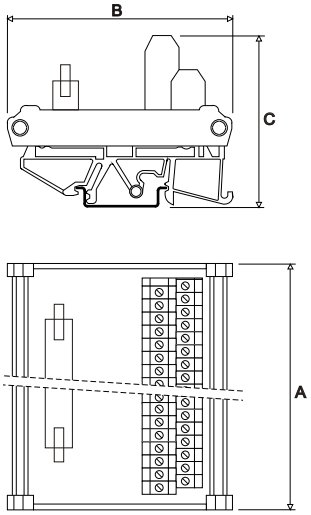
For 32-channel digital I/O cards
System H

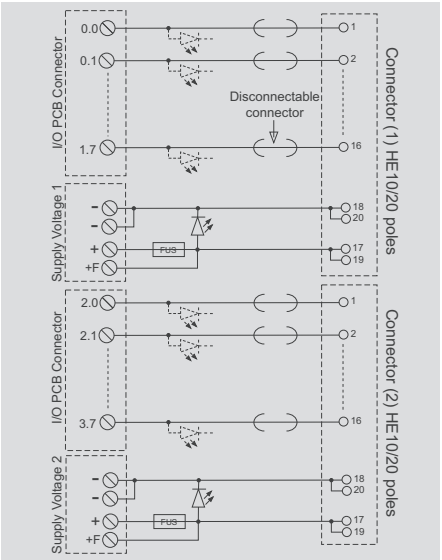
RS ES-S-I - 32 disconnectable channels

H System – 1-wire
Version: screw connecion



Dimensions





Technical data

Connection		
Connection to PLC		2 x HE 10 connectors - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		
Input-Output Data		
Operating voltage		24 V DC ± 10%
Max. current per channel		1 A (*)
Max. total current		3 A
Fuse per channel		–
Disconnection per channel		Yes - each channel
LED status indication per channel		Green
Polarity distribution		–
Max. current of joint potential		–
PLC card supply voltage / LED voltage status		24 V DC / LED yellow
PLC card supply current		2 A
PLC card supply current fuse		3.15 A
Insulation coordination (EN50178)		
Rated voltage		< 50 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		0.5 KV DC
Ambient temperature		-25…50 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	220 x 87.5 x 72

Note	(*) Observe the max. permissible current for the common wires

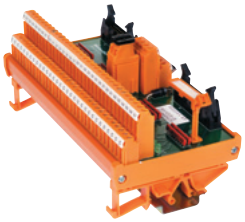
Ordering data

	Type	Order No.
Screw connection without LED		
Screw connection with LED	RS 32ES-S-I-L H/V	**9445870000**
Tension clamp connection without LED		
Tension clamp connection with LED		
Note		

For 32-channel digital I/O cards System H

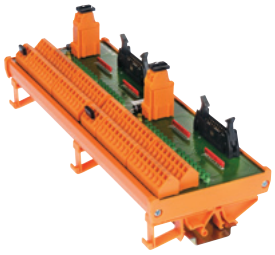
RS ES-D - 32-channel

H-System – 2-wire (common + or –)
Version: screw connection - compact

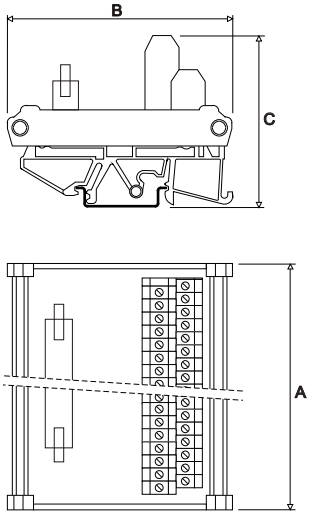


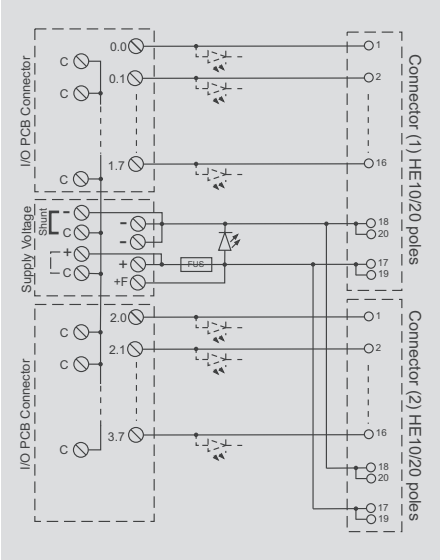
RS ES-D - 32-channel

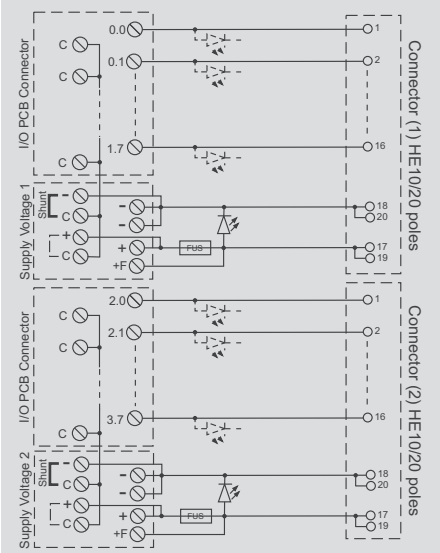
H-System – 2-wire (common + or –)
Version: tension clamp



Dimensions







Technical data

Connection			
Connection to PLC		2 x HE 10 connectors - 20 pole	2 x HE 10 connectors - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	
Connection type Z (tension clamp) Flexible/Solid			0.5…1.5 / 0.5…1.5 mm² (AWG 16…26)
Input-Output Data			
Operating voltage		24 V DC ± 10%	24 V DC ± 10%
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	–
LED status indication per channel		Green	Green
Polarity distribution		+ or – selectable with a jumper	+ or – selectable with a jumper
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	2 x 24 V DC / LED yellow (for each 16-channel block)
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	version mm	170 x 87.5 x 72	
Length A x width B x height C	mm		230 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED				
Screw connection with LED	RS 32ES-D-L H/V	**9445930000**		
Tension clamp connection without LED				
Tension clamp connection with LED			RS 32ES-D-L D/Z	**9447930000**
Note	**: compact version**			

Direct inputs/outputs for digital cards

For 32-channel digital I/O cards
System H

RS ES-D-I - 32 disconnectable channels

H-System – 2-wire (common + or –)
Version: screw connection - compact

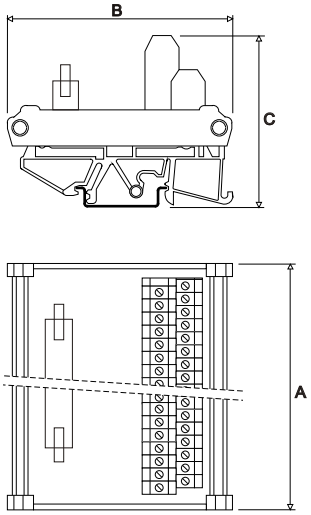


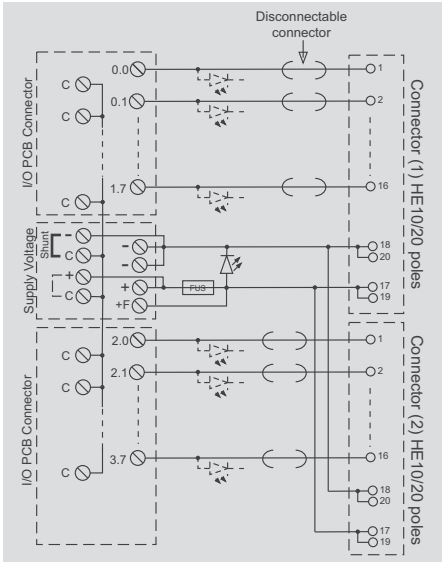
RS ES-D-I - 32 disconnectable channels

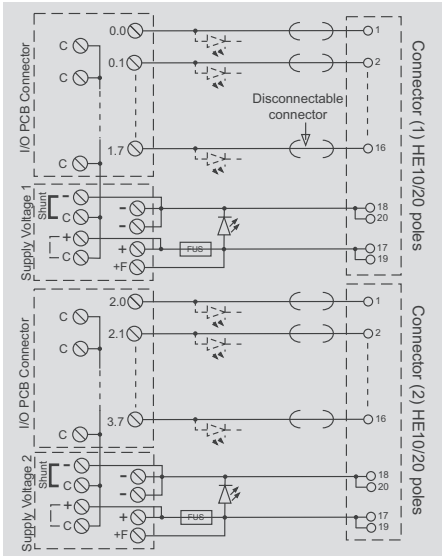
H-System – 2-wire (common + or –)
Version: tension clamp



Dimensions







Technical data

Connection			
Connection to PLC		2 x HE 10 connectors - 20 pole	2 x HE 10 connectors - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	
Connection type Z (tension clamp) Flexible/Solid			0.5…1.5 / 0.5…1.5 mm² (AWG 16…26)
Input-Output Data			
Operating voltage		24 V DC ± 10%	24 V DC ± 10%
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		Yes - each channel	Yes - each channel
LED status indication per channel		Green	Green
Polarity distribution		+ or – selectable with a jumper	+ or – selectable with a jumper
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	24 V DC / LED yellow
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	version mm	170 x 87.5 x 72	
Length A x width B x height C	mm		230 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED				
Screw connection with LED	RS 32ES-D-I-L H/V	**9445950000**		
Tension clamp connection without LED				
Tension clamp connection with LED			RS 32ES-D-I-L H/Z	**9447950000** (1)
Note	: compact version		(1) on demand	

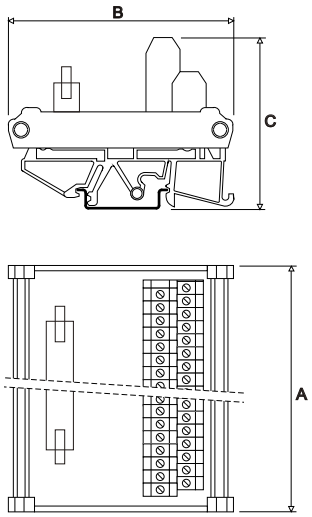
For 32-channel digital I/O cards System H

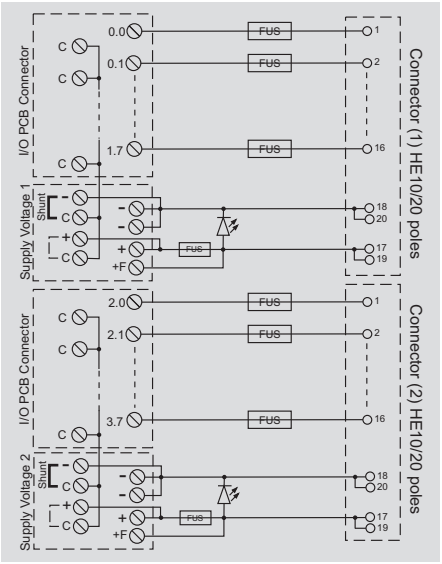
RS ES-D-F - 32-channel with fuse

H-System – 2-wire (common + or –)
Version: screw connection



Dimensions





Technical data

Connection		
Connection to PLC		2 x HE 10 connectors - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		
Input-Output Data		
Operating voltage		≤ 25 V AC 50 V DC
Max. current per channel		1 A (*)
Max. total current		3 A
Fuse per channel		0.5 A fuse on each channel
Disconnection per channel		–
LED status indication per channel		–
Polarity distribution		+ or – selectable with a jumper
Max. current of joint potential		3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow
PLC card supply current		2 A
PLC card supply current fuse		3.15 A
Insulation coordination (EN50178)		
Rated voltage		< 50 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		0.5 KV DC
Ambient temperature		-25…50 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	248 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires

Ordering data

	Type	Order No.
Screw connection without LED	RS 32ES-D-F H/V	9445980000
Screw connection with LED		
Tension clamp connection without LED		
Tension clamp connection with LED		
Note		

Direct inputs/outputs for digital cards

For 32-channel digital I/O cards
System H

RS ES-T - 32-channel

H System – 3-wire (common + and –)
Version: screw connection - compact

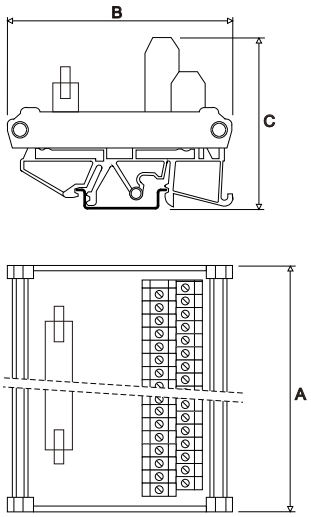


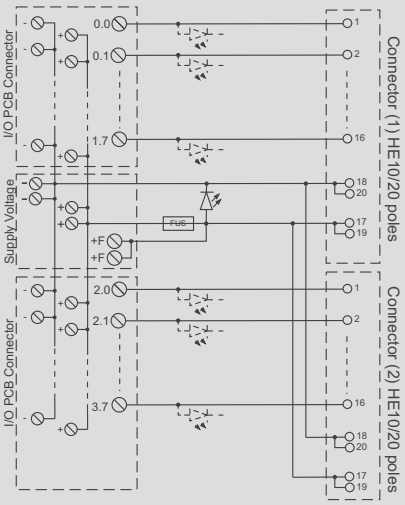
RS ES-T - 32-channel

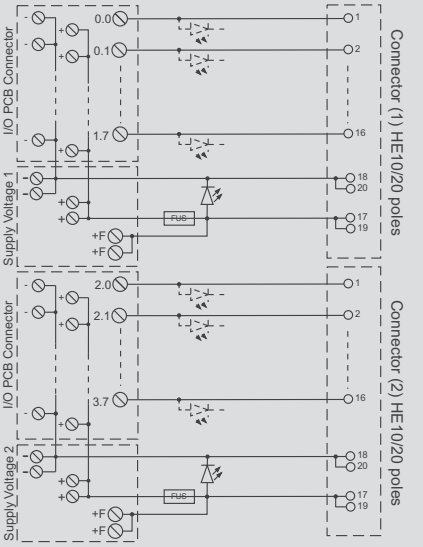
H System – 3-wire (common + and –)
Version: tension clamp



Dimensions







Technical data

		RS ES-T - 32-channel	RS ES-T - 32-channel
Connection			
Connection to PLC		2 x HE 10 connectors - 20 pole	2 x HE 10 connectors - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	
Connection type Z (tension clamp) Flexible/Solid			0.5…1.5 / 0.5…1.5 mm² (AWG 16…26)
Input-Output Data			
Operating voltage		≤ 25 V AC 50 V DC (version without LED) / 24 V DC ± 10% (versions with LED)	24 V DC ± 10%
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	–
LED status indication per channel		Green (versions with LED)	Green
Polarity distribution		+ and –	+ and –
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		24 V DC / LED yellow	2 x 24 V DC / LED yellow (for each 16-channel block)
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	version mm	176 x 87.5 x 72	
Length A x width B x height C	mm		221 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires	(*) Observe the max. permissible current for the common wires

Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED	RS 32ES-T H/V	**9445960000**		
Screw connection with LED	RS 32ES-T-L H/V	**9445970000**		
Tension clamp connection without LED				
Tension clamp connection with LED			RS 16ES-T-L H/Z	**9447970000**
Note	: compact version			

For 32-channel digital I/O cards System R

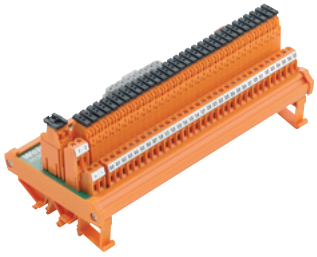
RS ES - 32-channel

System R – 1-wire cabling
Version: screw connection

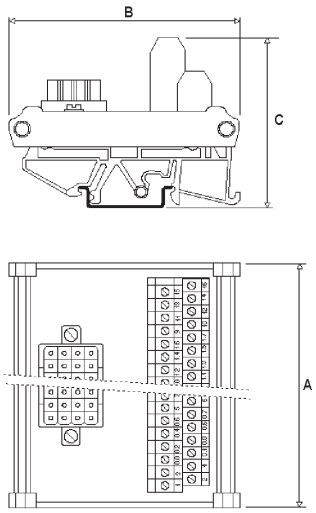


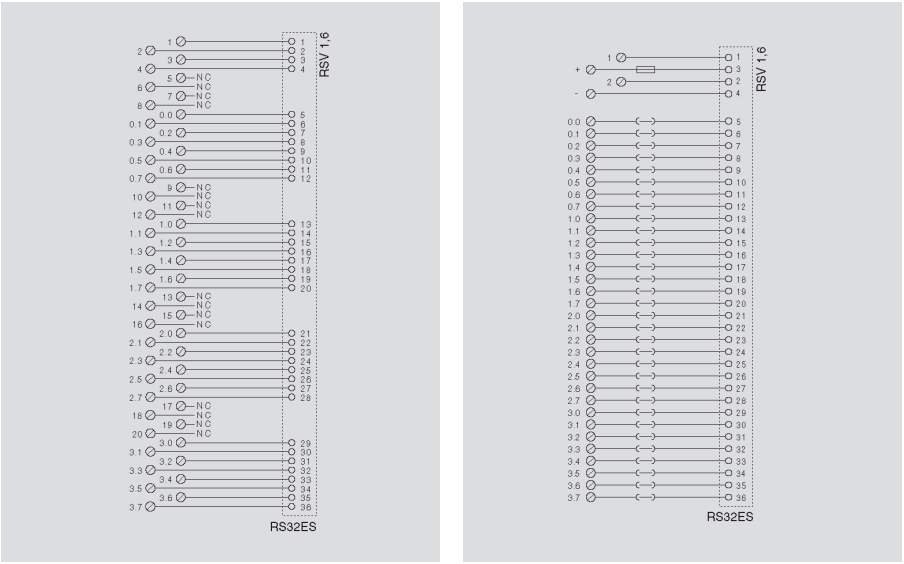
RS ES-I – 32 disconnectable channels

System R – 1-wire cabling
Version: screw connection



Dimensions





Technical data

Connection			
Connection to PLC		RSV 1.6 connector - 36 pole	RSV 1.6 connector - 36 pole
Connection type V (screw clamp) Flexible/Solid		0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid			
Input-Output Data			
Operating voltage		max 150 V UC	250 V max
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	–
Disconnection per channel		–	Yes - each channel
LED status indication per channel		–	–
Polarity distribution		–	–
Max. current of joint potential		–	–
PLC card supply voltage / LED voltage status		max 150 V UC	max 250 V
PLC card supply current		2 A	2 A
PLC card supply current fuse		–	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 150 V AC	250 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		1.1 KV DC	1.7 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	148 x 87.5 x 72	188 x 87.5 x 72
Note		(*) Observe the max. permissible current for the common wires (**) No main-circuits	(*) Observe the max. permissible current for the common wires (**) No main-circuits

Ordering data

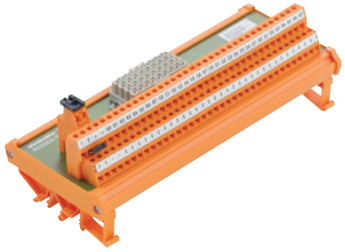
	Type	Order No.	Type	Order No.
Screw connection without LED	RS32ES RSV1,6/V	**9441510000**	RS32ES-I RSV1,6/V	**9441870000**
Screw connection with LED				
Note				

Direct inputs/outputs for digital cards

For 32-channel digital I/O cards System R

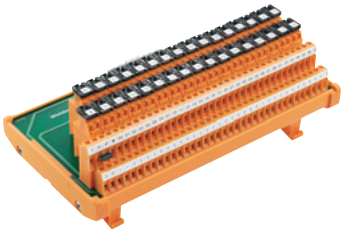
RS ES-DP - 32-channel

R-System – 2-wire (common + or –)
Version: screw connection

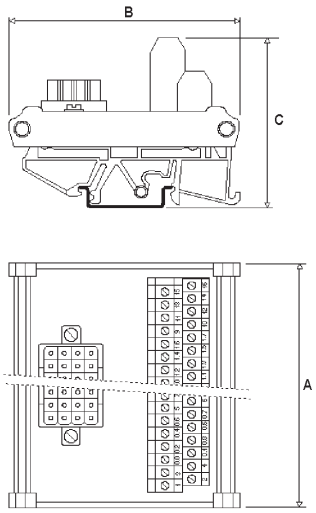


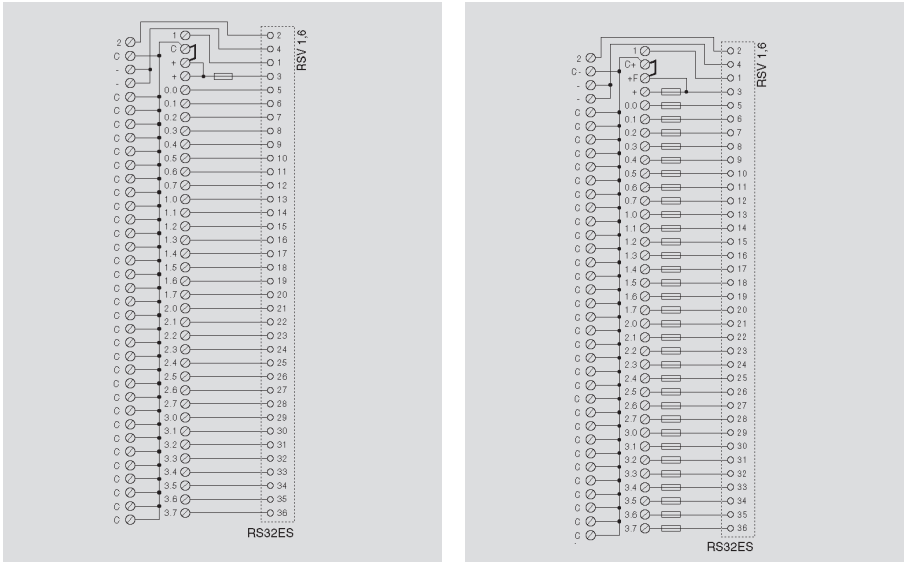
RS ES-DP/F - 32-channel with fuse

R-System – 2-wire (common + or –)
Version: screw connection



Dimensions





Technical data

Connection			
Connection to PLC		RSV 1.6 connector - 36 pole	RSV 1.6 connector - 36 pole
Connection type V (screw clamp) Flexible/Solid		0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)	0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)
Connection type Z (tension clamp) Flexible/Solid			
Input-Output Data			
Operating voltage		max 150 V UC	max 150 V UC
Max. current per channel		1 A (*)	1 A (*)
Max. total current		3 A	3 A
Fuse per channel		–	1 A fuse on each channel
Disconnection per channel		–	–
LED status indication per channel		–	–
Polarity distribution		+ or – selectable with a jumper	+ or – selectable with a jumper
Max. current of joint potential		3 A	3 A
PLC card supply voltage / LED voltage status		max 150 V UC	max 150 V UC
PLC card supply current		2 A	2 A
PLC card supply current fuse		3.15 A	3.15 A
Insulation coordination (EN50178)			
Rated voltage		< 150 V AC	< 150 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		1.1 KV DC	1.1 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	200 x 87.5 x 72	200 x 109 x 84
Note		(*) Observe the max. permissible current for the common wires (**) No main-circuits	(*) Observe the max. permissible current for the common wires (**) No main-circuits

Ordering data

	Type	Order No.	Type	Order No.
Screw connection without LED	RS32ES-DP RSV1,6/V	**9441710000**	RS32ES-DP/F RSV1,6/V	**9441570000** (1)
Screw connection with LED				
Note			(1) on demand	

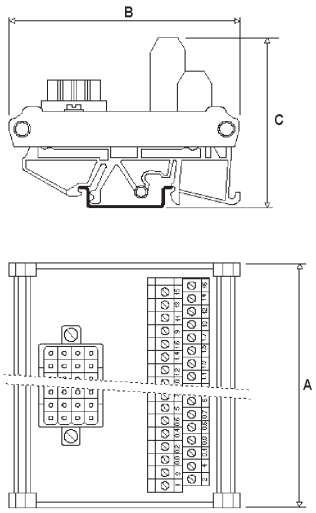
For 32-channel digital I/O cards System R

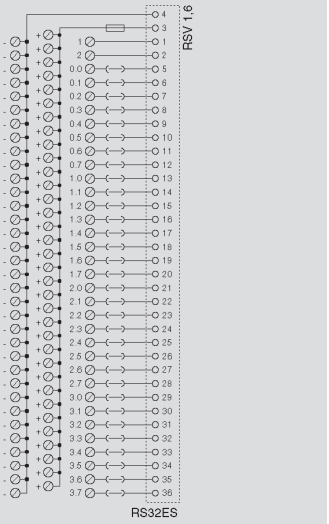
RS ES-3 E/I - 32 disconnectable channels

R System – 3-wire (common + and –)
Version: screw connection



Dimensions





Technical data

Connection		
Connection to PLC		RSV 1.6 connector - 36 pole
Connection type V (screw clamp) Flexible/Solid		0.5…1.5 mm² / 0.5…2.5 mm² (AWG 26...16)
Connection type Z (tension clamp) Flexible/Solid		
Input-Output Data		
Operating voltage		max 150 V UC
Max. current per channel		1 A (*)
Max. total current		3 A
Fuse per channel		–
Disconnection per channel		Yes - each channel
LED status indication per channel		–
Polarity distribution		+ and –
Max. current of joint potential		3 A
PLC card supply voltage / LED voltage status		max 150 V UC
PLC card supply current		2 A
PLC card supply current fuse		3.15 A
Insulation coordination (EN50178)		
Rated voltage		< 150 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.1 KV DC
Ambient temperature		-25…50 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	188 x 109 x 84
Note		(*) Observe the max. permissible current for the common wires (**) No main-circuits

Ordering data

	Type	Order No.
Screw connection without LED	RS32E-3E/I RSV1,6/V	**9441610000**
Screw connection with LED		
Note		

Close the catalogue

Close the catalogue

Close the catalogue

Close the catalogue

Module overview – Opto-decoupled inputs/outputs for digital cards

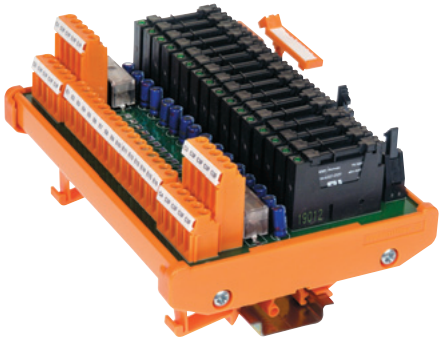
Type			Functionalities					Modules		
No. of channels	H or R System	Type of wiring	Compact version	Connection		1 LED per chan.	Pluggable optocoupler	Order No.	Type	Page
				Screw	Tension c.					
16 channels	H System	2-wire					OD	**9446900000**	RS16E-OD 24-48V H/V	**C.39**
							OD	9446910000 (*)	RS16E-OD 115 H/V	**C.40**
							OD	9446920000 (*)	RS16E-OD 230V H/V	**C.40**

Note: Preferably articles in bold (*) on demand

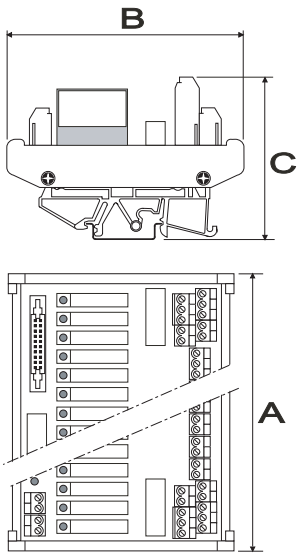
For 16-channel digital cards

RSE OD – 16-channel

System H – Pluggable optocouplers
Version: screw connection

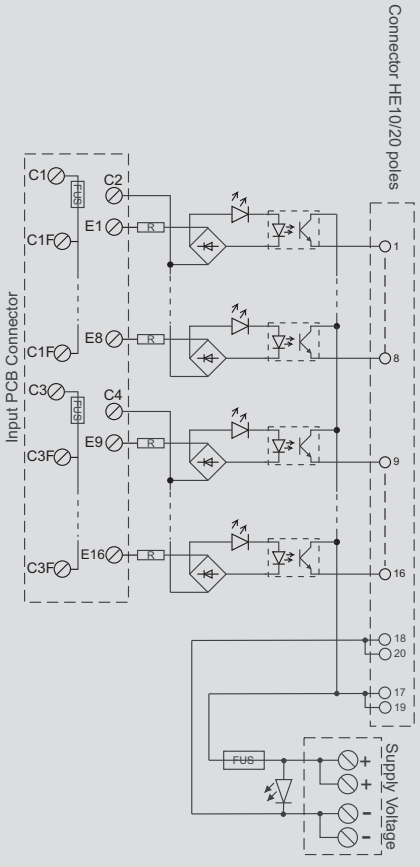


Dimensions



Technical data

Connection	
Connection to PLC	HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid	
Input data	
Operating Voltage	24…48 V UC
Input current AC	9…21 mA AC
Input current DC	7…16 mA DC
Switching voltage AC	20 V AC
Switching voltage DC	19 V DC
Max. switching current/voltage	100 mA / 48 V–
Optocoupler polarisation voltage	24 up to 48 V DC
Continuous current per optocoupler	100 mA
Fuse (optocoupler power supply)	1 A
I/O card max. supply current	2 A
Insulation coordination (EN50178)	
Rated voltage	< 50 V AC
Overvoltage category	III
Pollution degree	2
Insulation test voltage	0.5 KV DC
Ambient temperature	-25…50 °C
Storage temperature	-40…60 °C
Dimensions	
Length A x width B x height C ⋊⋉ version mm	148 x 109 x 72
Note	(*) Observe the max. permissible current for the common wires



Ordering data

	Type	Order No.
24-48 V version	RS16E-OD 24-48V H/V ⋊⋉	**9446900000**
Note	⋊⋉ **: compact version**	

Accessories

Note	Optocoupler - 4061180000

Module overview - Relay outputs for digital cards

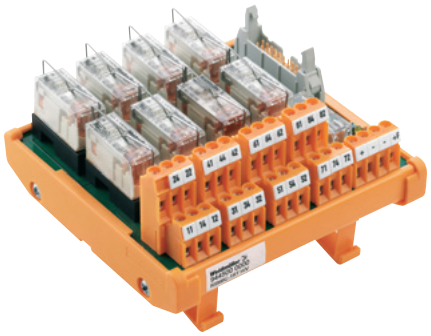
Type		Functionalities							Modules		
No. of channels	H or R System	Compact version	Connection: Screw	Connection: Tension c.	Type of contact	Fuse	Force function	Solen. ctrl.	Order No.	Type	Page
8 chan.	H System	✓	✓		1CO				**9445000000**	RSM8C-1CO H/V	**C.43**
		✓		✓	1CO				9447000000	RSM8C-1CO H/Z	**C.43**
12 chan.	H System	✓	✓		1CO				9445060000 (*)	RSM12C-1CO H/V	**C.44**
16 chan-nels	H System		✓		1CO				**9444610000**	RSM16-NV/1CO 24V (-/+)	**C.45**
				✓	1CO				9444660000	RSM16-NZ/1CO 24V (-/+)	**C.45**
		✓	✓		1CO				**9445100000**	RSM16C-1CO H/V	**C.46**
		✓		✓	1CO				9447100000	RSM16C-1CO H/Z	**C.46**
		✓	✓		1CO				1079390000 (*)	RSM16 SLIM-1CO H/V	**C.47**
		✓	✓		1CO				1094970000 (*)	RSM16 SLIM-1CO H/V SOCKET	**C.47**
			✓		2CO				9445160000	RSM16-2CO H/V	**C.48**
		✓		✓	2CO				9447160000	RSM16-2CO H/Z	**C.48**
			✓		1CO		✓		9445140000	RSM16-1CO-Fo H/V	**C.49**
			✓		1CO	✓			9445120000	RSM16-1CO-Fu H/V	**C.50**
				✓	1CO	✓			9447120000	RSM16-1CO-Fu H/Z	**C.50**
			✓		1NO			✓	9445180000	RSM16 1T/Solen. ctrl 24V DC H/V	**C.51**
32 chan-nels	H System	✓	✓		1CO				**1108470000 (*)**	RSM32C-1CO 24VDC H/V	**C.52**
		✓		✓	1CO				9447200000	RSM32C-1CO H/Z	**C.52**
			✓		1CO	✓			9445220000	RSM32-1CO-Fu H/V	**C.53**

Note: **Preferably articles in bold** **(*) on demand**

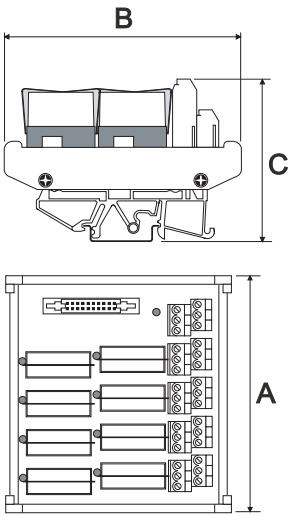
For 8-channel digital output cards

RSM-C – 8-channel

H System – 1CO relay
Versions: screw / tension clamp

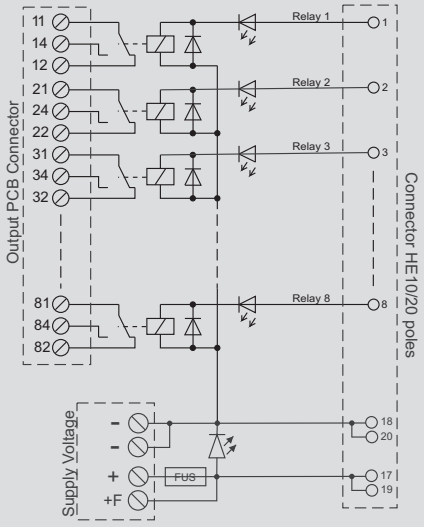


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	110 x 109 x 68
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM8C-1CO H/V	**9445000000**
Tension clamp connection	RSM8C-1CO H/Z	**9447000000**
Note		

Accessories

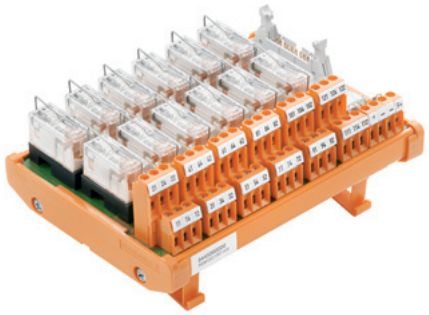
Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

Relay outputs for digital cards

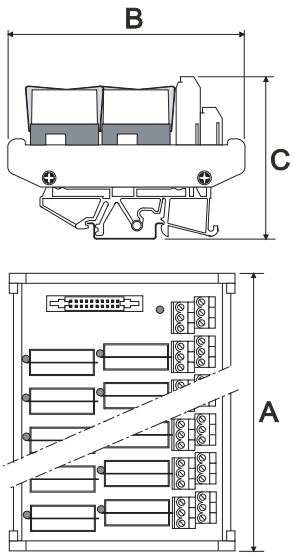
For 12-channel digital output cards

RSM-C – 12-channel

H System – 1CO relay
Version: screw connection

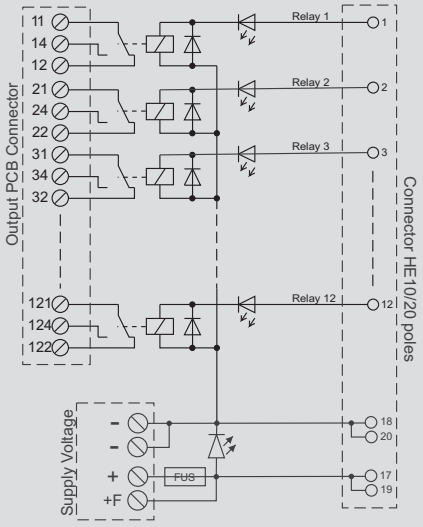


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		–
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10^6 operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	147 x 109 x 68
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM12C-1CO H/V	**9445060000**
Tension clamp connection		
Note		

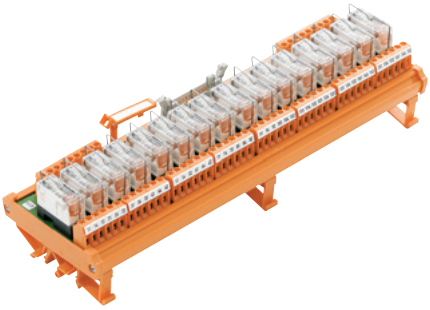
Accessories

Note	Relay RCL314024 - 869326000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

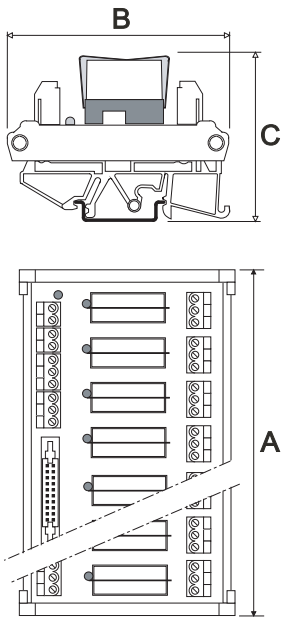
For 16-channel digital output cards

RSM-S – 16-channel

1CO relay
Versions: screw / tension clamp

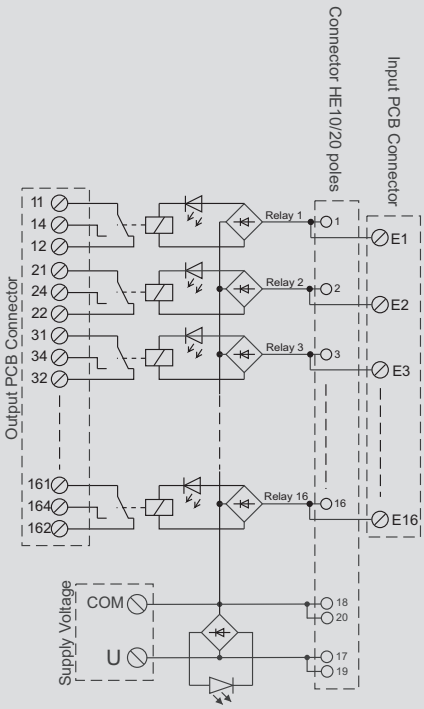


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.5…1.5 / 0.5…1.5 mm² (AWG 16…26)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		22 mA / 0.5 W
Coil status indicator		LED green
PLC card supply current fuse		–
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	267 x 87.5 x 68
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM16-NV/1CO 24V (-/+)	9444610000
Tension clamp connection	RSM16-NZ/1CO 24V (-/+)	9444660000
Note		

Accessories

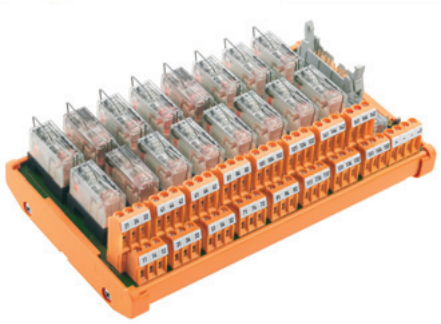
Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

Relay outputs for digital cards

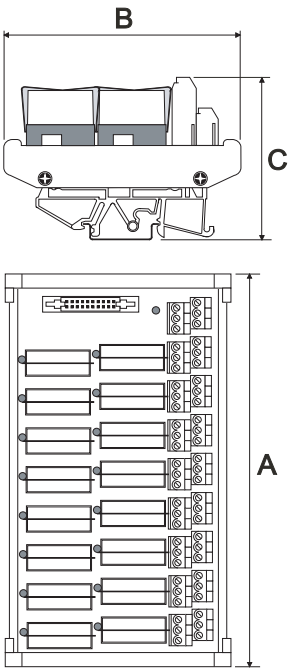
For 16-channel digital output cards

RSM-C – 16-channel

H System – 1CO relay
Versions: screw / tension clamp

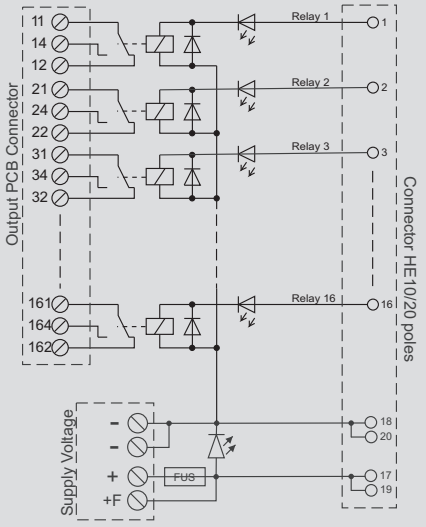


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10^6 operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	185 x 109 x 68
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM16C-1CO H/V	**9445100000**
Tension clamp connection	RSM16C-1CO H/Z	**9447100000**
Note		

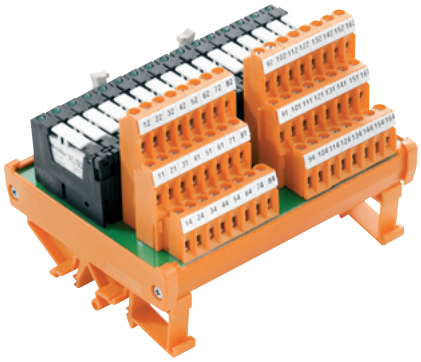
Accessories

Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

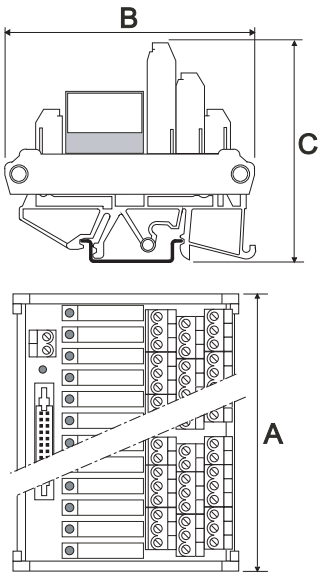
For 16-channel digital output cards

RSM SLIM – 16-channel

H System – with 1CO relay / empty socket
Version: screw connection - compact

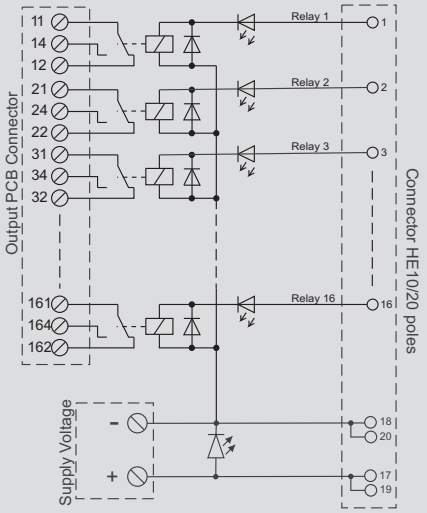


Dimensions



Technical data

Connection	
Connection to PLC	HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid	0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input data	
Coil rated voltage	24 V ±10%
Coil rated current/power	8 mA / 0.2 W
Coil status indicator	LED green
PLC card supply current fuse	–
I/O card max. supply current	2 A
Output data	
Contact configuration	1CO
Max. switching power/voltage	1500 VA / 250 V AC
Relay type	6 A version
Max. continuous/inrush current	4 A/6 A
Contact material	AgSnO2
Fuse (contact)	–
Mechanical service life	5 x 10⁶ operations
Insulation coordination (EN50178)	
Rated voltage	250 V AC
Overvoltage category	III
Pollution degree	2
Insulation test voltage	1.2 KVrms
Ambient temperature	-25…40 °C
Storage temperature	-40…60 °C
Dimensions	
Length A x width B x height C ⋊⋉ version mm	111 x 87.5 x 85
Note	(*) No main-circuits



Ordering data

	Type	Order No.
Equipped with 1 CO relay screw connection	RSM16 SLIM-1CO H/V ⋊⋉	1079390000 (1)
Empty slot, screw connection	RSM16 SLIM-1CO H/V SOCKET ⋊⋉	1094970000 (1)
Note	⋊⋉ : compact version (1) on demand	

Accessories

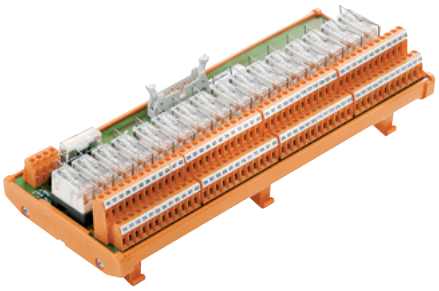
Note	1CO relay - 4061590000 Optocoupler ODC 24V/2A - 4061190000

Relay outputs for digital cards

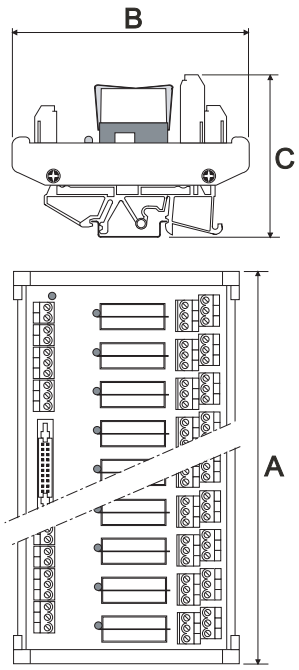
For 16-channel digital output cards

RSM-2CO – 16-channel

System H – 2CO relay
Versions: screw / tension clamp

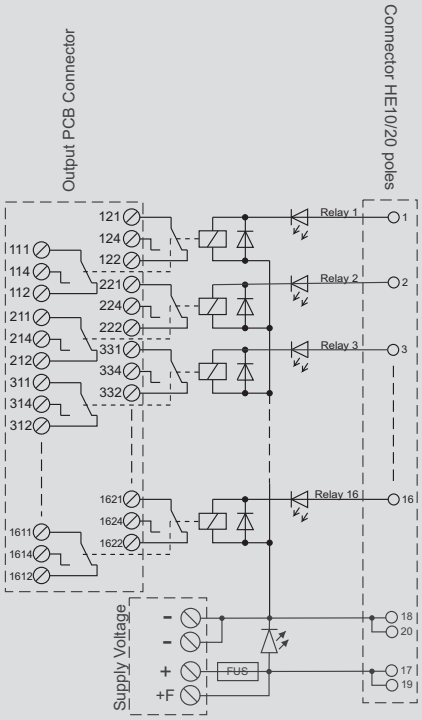


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		2CO
Max. switching power/voltage		2000 VA / 250 V AC
Relay type		2x8 A version
Max. continuous/inrush current		4 A/8 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10^6 switching cycles
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	263 x 109 x 75
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM16-2CO H/V	**9445160000**
Tension clamp connection	RSM16-2CO H/Z	**9447160000**
Note		

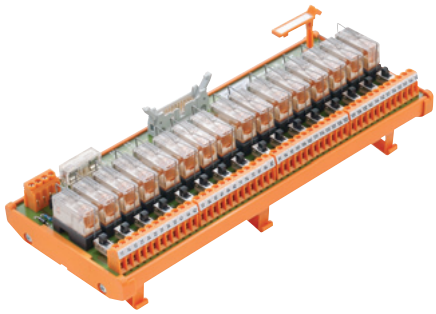
Accessories

Note	2CO Relay - 4058570000

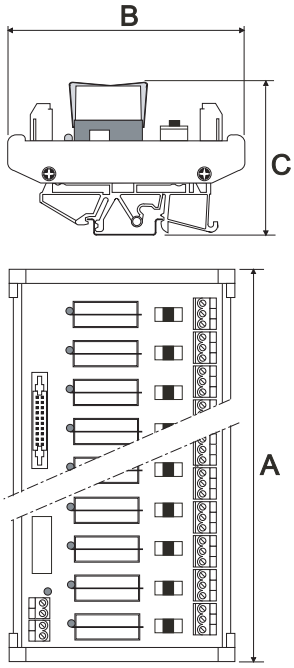
For 16-channel digital output cards

RSM-Fo - 16-channel with force function

H System – 1CO relay
Version: screw connection

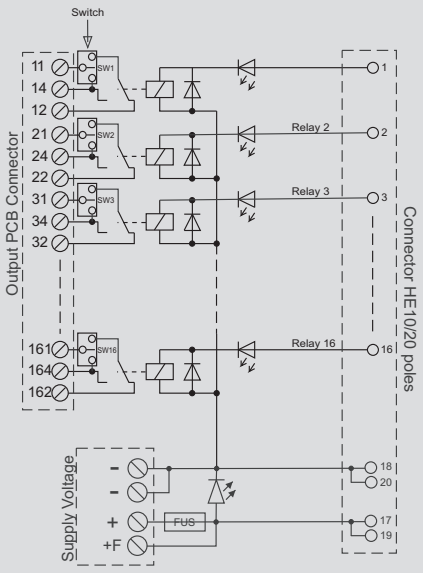


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		–
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		2 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	263 x 109 x 75
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM16-1CO-Fo H/V	**9445140000**
Tension clamp connection		
Note		

Accessories

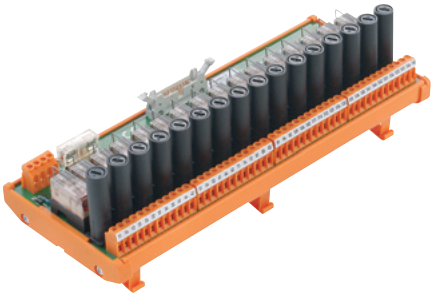
Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

Relay outputs for digital cards

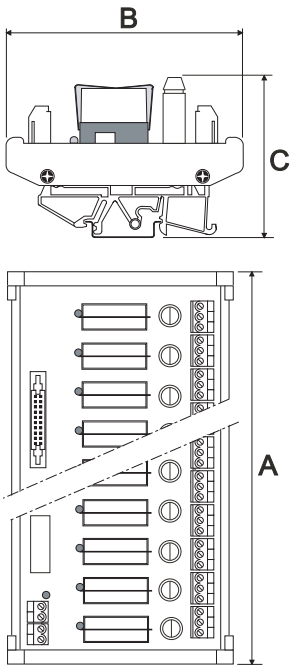
For 16-channel digital output cards

RSM-Fu – 16-channel with fuse

H System – 1CO relay
Versions: screw / tension clamp

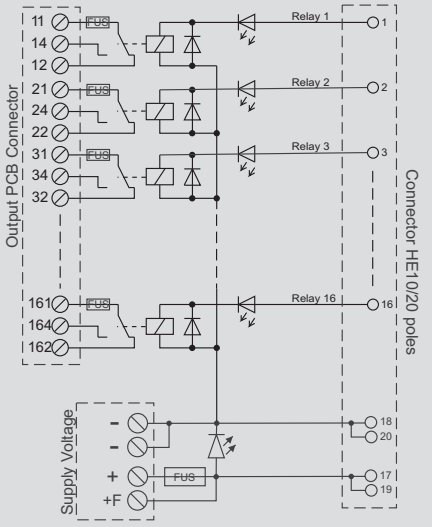


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.5...1.5 / 0.5...1.5 mm² (AWG 16...26)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		5 A fuse on each channel
Mechanical service life		30 x 10^6 operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	261 x 109 x 75
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM16-1CO-Fu H/V	**9445120000**
Tension clamp connection	RSM16-1RT-Fu H/Z	**9447120000**
Note		

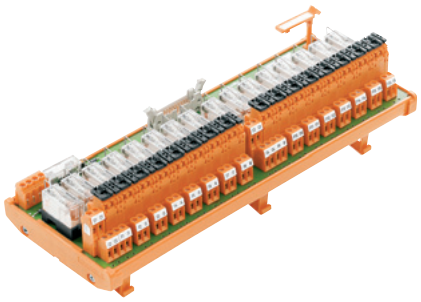
Accessories

Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

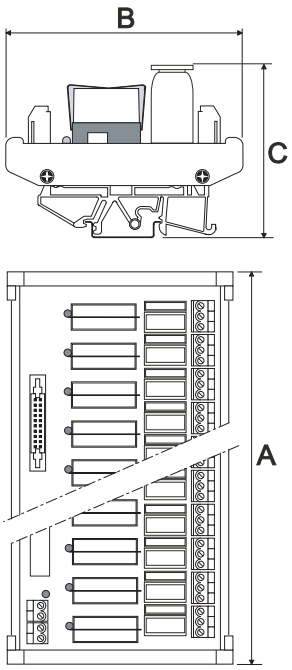
For 16-channel digital output cards

RSM-Solen. ctrl. - 16-channel for solenoid

H System – 1O relay
Version: screw connection

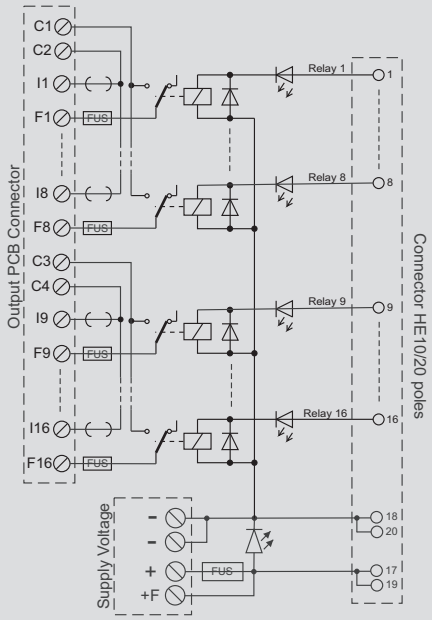


Dimensions



Technical data

Connection		
Connection to PLC		HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		–
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		2 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	290 x 109 x 75
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM16 1T/Solen. ctrl. 24V DC H/V	**9445180000**
Tension clamp connection		
Note		

Accessories

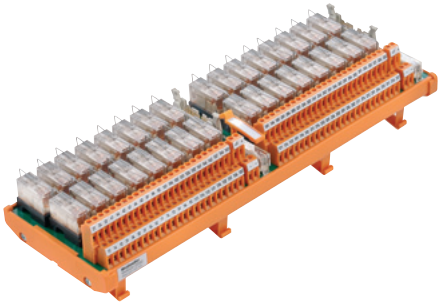
Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

Relay outputs for digital cards

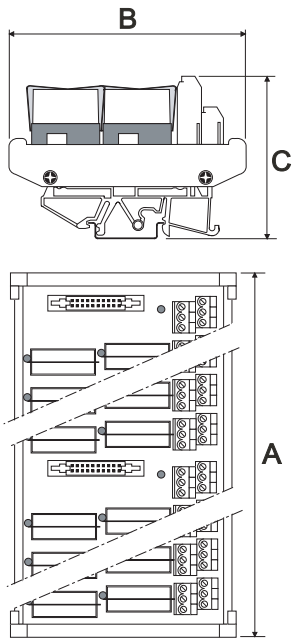
For 32-channel digital output cards

RSM-C – 32-channel

H System – 1 CO relay
Versions: screw / tension clamp

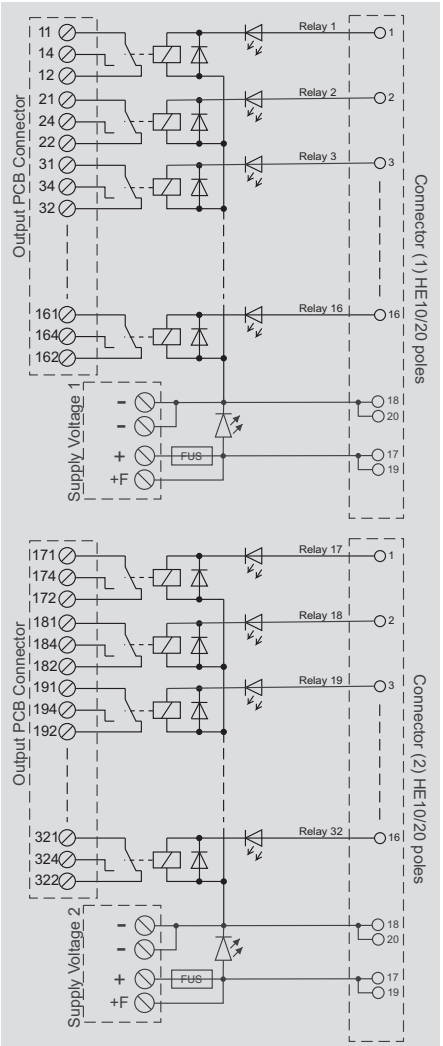


Dimensions



Technical data

Connection		
Connection to PLC		2 x HE 10 connector - 20 pole
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		–
Mechanical service life		30 x 10^6 operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	365 x 109 x 68
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM32C-1CO 24VDC H/V	1108470000(1)
Tension clamp connection	RSM32C-1CO H/Z	9447200000
Note	(1) on demand	

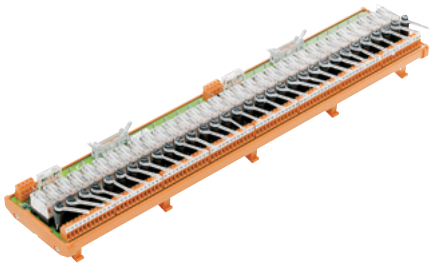
Accessories

Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

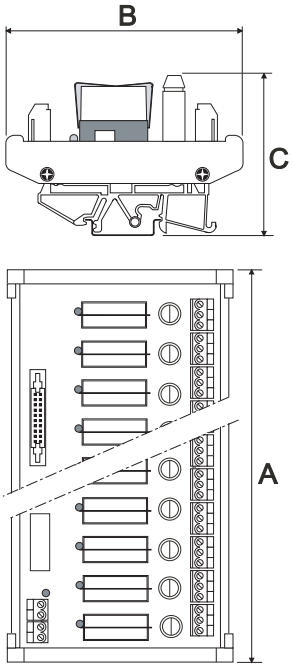
For 32-channel digital cards

RSM-Fu – 32-channel with fuse

H System – 1 CO relay
Version: screw connection

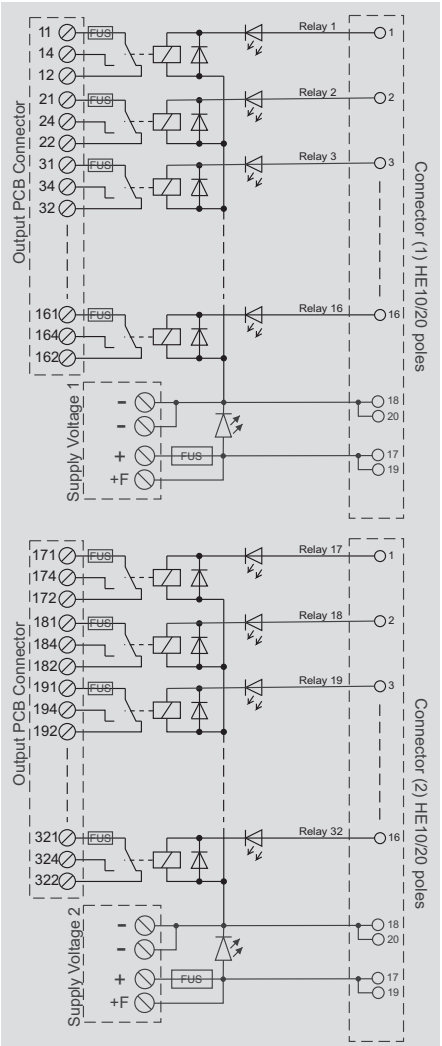


Dimensions



Technical data

Connection		
Connection to PLC		2 x HE 10 20-pole connectors
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		–
Input data		
Coil rated voltage		24 V ±10%
Coil rated current/power		17 mA / 0.4 W
Coil status indicator		LED green
PLC card supply current fuse		3.15 A
I/O card max. supply current		2 A
Output data		
Contact configuration		1CO
Max. switching power/voltage		3000 VA / 250 V AC
Relay type		16 A version
Max. continuous/inrush current		5 A/16 A
Contact material		AgNi 90/10
Fuse (contact)		5 A fuse on each channel
Mechanical service life		30 x 10⁶ operations
Insulation coordination (EN50178)		
Rated voltage		250 V AC
Overvoltage category		III
Pollution degree		2
Insulation test voltage		1.2 KVrms
Ambient temperature		-25…40 °C
Storage temperature		-40…60 °C
Dimensions		
Length A x width B x height C	mm	511 x 109 x 75
Note		(*) No main-circuits



Ordering data

	Type	Order No.
Screw connection	RSM32-1CO-Fu H/V	**9445220000**
Tension clamp connection		
Note		

Accessories

Note	Relay RCL314024 - 8693260000	Static relay ODC - 8576340000 Static relay OAC - 8576370000

Close the catalogue

Close the catalogue

Module overview – Analogue input/output

Type		Functionalities						Modules		
Number of channels	PLC	Compact version	Connection: Screw	Connection: Tension c.	Common distribution	Disconnec-table	Test points	Order No.	Type	Page
4 channels	Standard		●		●			**9448000000**	RS4AIO-DP SD/V	**C.55**
			●		●	●	●	9448100000	RS4AIO/I-M-DP SD/V	**C.55**
8 chan-nels	Standard		●		●			**9448010000**	RS8AIO-DP SD/V	**C.56**
			●		●	●	●	9448110000	RS8AIO/I-M-DP SD/V	**C.56**
				●	●	●	●	9449110000	RS8AIO/I-M-DP SD/Z	**C.56**
8 channels P	Premium (Télémécanique)		●		●	●		9448030000	RS8AI PREM/APR SD/V	**C.57**
9 channels M	Micro (Télémécanique)		●					9448040000	RS8E1AO MICRO SD/V	**C.57**
16 chan-nels	Standard		●		●			**9448020000**	RS16AIO-DP SD/V	**C.58**
			●		●	●	●	9448120000	RS16AIO/I-M-DP SD/V	**C.58**
				●	●	●	●	9449120000	RS16AIO/I-M-DP SD/Z	**C.58**

Note: **Preferably articles in bold**

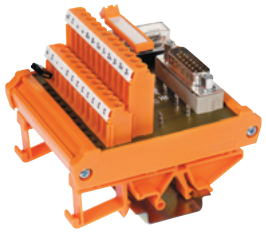
Close the catalogue

Close the catalogue

For 4-channel analogue I/O cards

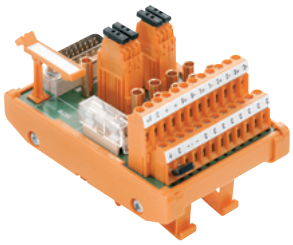
RS AIO-DP - 4-channel

Common distribution
Version: screw connection

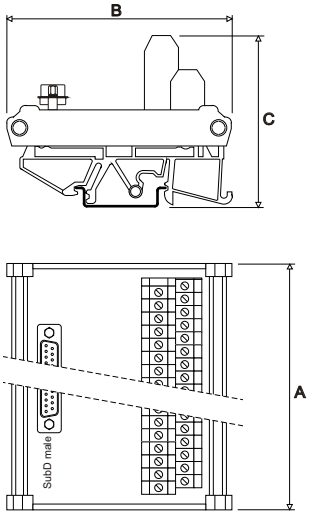


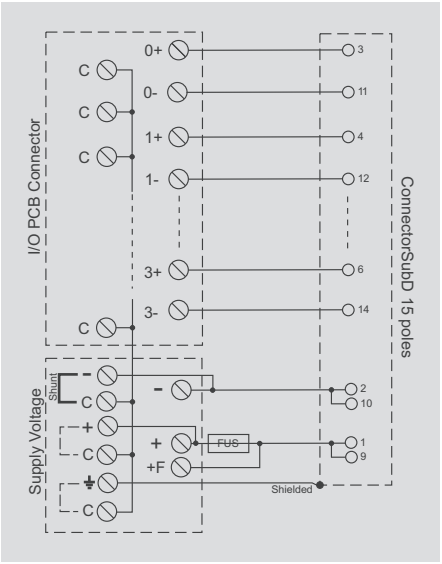
RS AIO/I-M-DP - 4-channel

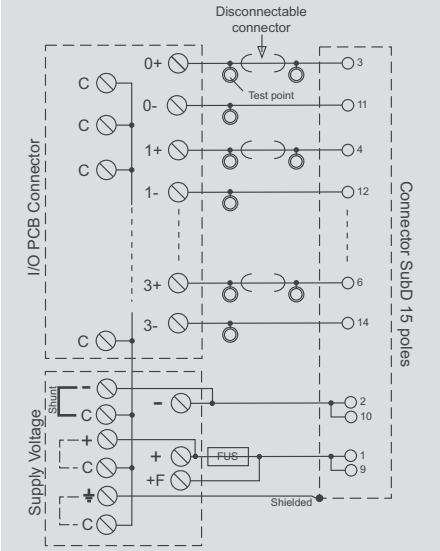
Common distribution, disconnection and test
Version: screw connection



Dimensions







Technical data

Connection			
Connection to PLC		15-pole D-SUB male connector	15-pole D-SUB male connector
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		–	–
Input-Output Data			
Number of channels		4	4
Operating voltage		≤ 25 V AC 50 V DC	≤ 25 V AC 50 V DC
Common distribution		Shield, + or – (selectable with jumper)	Shield, + or – (selectable with jumper)
PLC card supply current fuse		3.15 A	3.15 A
Disconnection		–	Yes - each channel
Current measuring test point		–	Yes - 2 female testing points dia. 4 mm
Voltage measuring test point		–	Yes
Continuous shielding		Yes	Yes
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	75 x 87.5 x 72	73 x 109 x 81
Note			

Ordering data

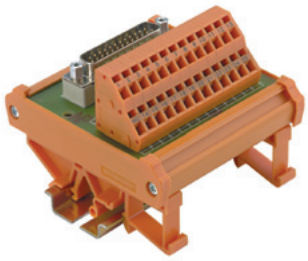
	Type	Order No.	Type	Order No.
Screw connection	RS4AIO-DP SD/V	**9448000000**	RS4AIO/I-M-DP SD/V	**9448100000**
Tension clamp connection				
Note				

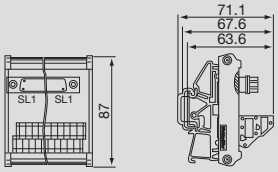
Close the catalogue

Interface units IEC 807-2 DIN 41652 (Sub-D connector)

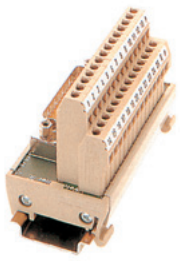
- Pin and socket connector with screw locking system UNC 4/40
- Tension clamp or screw connection system
- 45 or 87 mm wide
- For mounting on TS32, TS35 x 7.5 and TS35 x 15

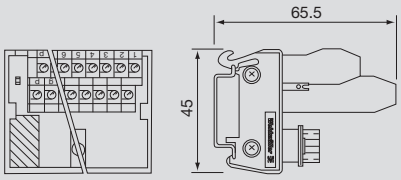
RSSD Z/ SUB-D





RSSD S/ SUB-D





Technical data

Connection data			
Connection on process side		PCB terminal LM2NZF	PCB terminal LPK 2 H
Stripping length		7.0 mm	7.0 mm
Connection on control side		D-SUB acc. IEC 807-2	D-SUB acc. IEC 807-2
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage		125 V AC/ 150 V DC	125 V AC/ 150 V DC
Rated current per connection		1.5 A	1.5 A
Test voltage (~eff)		0.6 kV	0.6 kV
Test torque			0.40 Nm
Storage temperature		-40 °C...+70 °C	-40 °C...+70 °C
Ambient temperature (operational)		0 °C...+55 °C	0 °C...+55 °C
Terminal rail		TS 35 - TS 32	TS 35
Insulation coordination (EN 50178)			
Surge category		III	III
Pollution severity		2	2
Approvals			
Standards		EN 50178	EN 50178
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
Length x width x height	mm	87.0 x — x 63.6	45.0 x — x 65.5
Note			

Ordering data

		Type	Width	Order No.	Type	Width	Order No.
Male connectors	9-pole	RS SD9 SZ	45.0 mm	**8537260000**	RS SD9S UNC LPK2	50.0 mm	**8259010000**
Male connectors	15-pole	RS SD15 SZ	60.0 mm	**8537390000**	RS SD15S UNC LPK2	61.0 mm	**8233350000**
Male connectors	25-pole	RS SD25 SZ	80.0 mm	**8537370000**	RS SD25S UNC LPK2	86.0 mm	**8155650000**
Male connectors	37-pole	RS SD37 SZ	110.0 mm	**8537240000**	RS SD37S UNC LPK2	116.0 mm	**8155660000**
Male connectors	50-pole	RS SD50 SZ	145.0 mm	**8537350000**	RS SD50S UNC LPK2	154.0 mm	**8155670000**
Female connectors	9-pole	RS SD9 BZ	45.0 mm	**8537320000**	RS SD9B UNC LPK2	50.0 mm	**8216480000**
Female connectors	15-pole	RS SD15 BZ	60.0 mm	**8537400000**	RS SD15B UNC LPK2	61.0 mm	**8209730000**
Female connectors	25-pole	RS SD25 BZ	80.0 mm	**8537380000**	RS SD25B UNC LPK2	86.0 mm	**8155620000**
Female connectors	37-pole	RS SD37 BZ	110.0 mm	**8537250000**	RS SD37B UNC LPK2	116.0 mm	**8155630000**

Note

Accessories

Note

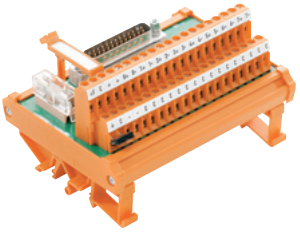
Close the catalogue

Input / output for analogue cards

For 8-channel analogue I/O cards

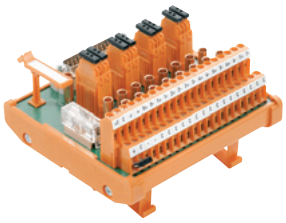
RS AIO-DP - 8-channel

Common distribution
Version: screw connection

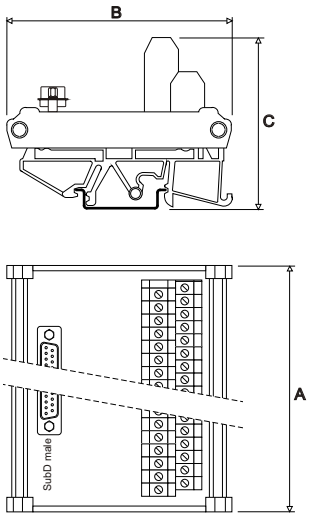


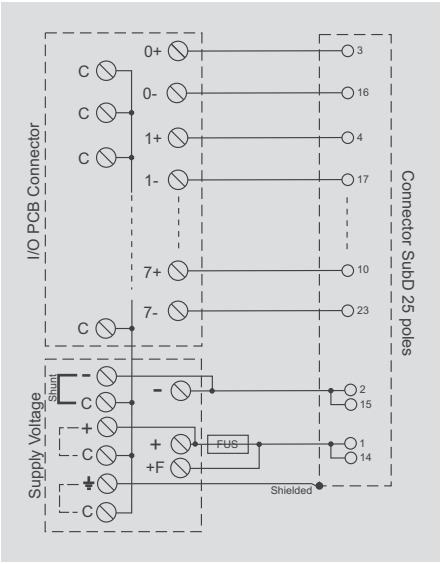
RS AIO/I-M-DP - 8-channel

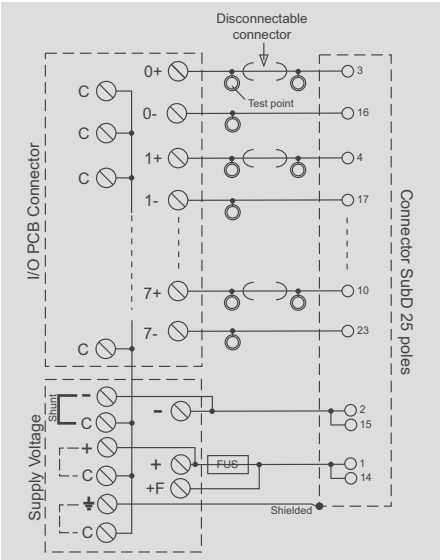
Common distribution, disconnection and test
Versions: screw / tension clamp



Dimensions







Technical data

Connection		
Connection to PLC	25-pole D-SUB male connector	25-pole D-SUB male connector
Connection type V (screw clamp) Flexible/Solid	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid	–	0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input-Output Data		
Number of channels	8	8
Operating voltage	≤ 25 V AC 50 V DC	≤ 25 V AC 50 V DC
Common distribution	Shield, + or – (selectable with jumper)	Shield, + or – (selectable with jumper)
PLC card supply current fuse	3.15 A	3.15 A
Disconnection	–	Yes - each channel
Current measuring test point	–	Yes - 2 female testing points dia. 4 mm
Voltage measuring test point	–	Yes - 2 female testing points dia. 4 mm
Continuous shielding	Yes	Yes
Insulation coordination (EN50178)		
Rated voltage	< 50 V AC	< 50 V AC
Overvoltage category	III	III
Pollution degree	2	2
Insulation test voltage	0.5 KV DC	0.5 KV DC
Ambient temperature	-25…50 °C	-25…50 °C
Storage temperature	-40…60 °C	-40…60 °C

Dimensions			
Length A x width B x height C	mm	117 x 87.5 x 72	114 x 109 x 81
Note			

Ordering data

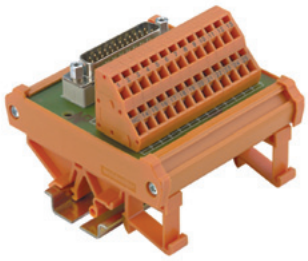
	Type	Order No.	Type	Order No.
Screw connection	RS8AIO-DP SD/V	**9448010000**	RS8AIO/I-M-DP SD/V	**9448110000**
Tension clamp connection			RS8AIO/I-M-DP SD/Z	**9449110000**
Note				

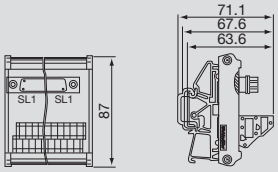
Close the catalogue

Interface units IEC 807-2 DIN 41652 (Sub-D connector)

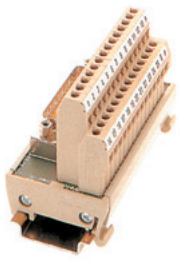
- Pin and socket connector with screw locking system UNC 4/40
- Tension clamp or screw connection system
- 45 or 87 mm wide
- For mounting on TS32, TS35 x 7.5 and TS35 x 15

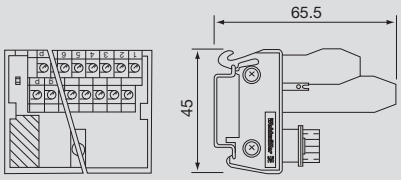
RSSD Z/ SUB-D





RSSD S/ SUB-D





Technical data

Connection data			
Connection on process side		PCB terminal LM2NZF	PCB terminal LPK 2 H
Stripping length		7.0 mm	7.0 mm
Connection on control side		D-SUB acc. IEC 807-2	D-SUB acc. IEC 807-2
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage		125 V AC/ 150 V DC	125 V AC/ 150 V DC
Rated current per connection		1.5 A	1.5 A
Test voltage (~eff)		0.6 kV	0.6 kV
Test torque			0.40 Nm
Storage temperature		-40 °C...+70 °C	-40 °C...+70 °C
Ambient temperature (operational)		0 °C...+55 °C	0 °C...+55 °C
Terminal rail		TS 35 - TS 32	TS 35
Insulation coordination (EN 50178)			
Surge category		III	III
Pollution severity		2	2
Approvals			
Standards		EN 50178	EN 50178
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
Length x width x height	mm	87.0 x — x 63.6	45.0 x — x 65.5
Note			

Ordering data

		Type	Width	Order No.	Type	Width	Order No.
Male connectors	9-pole	RS SD9 SZ	45.0 mm	**8537260000**	RS SD9S UNC LPK2	50.0 mm	**8259010000**
Male connectors	15-pole	RS SD15 SZ	60.0 mm	**8537390000**	RS SD15S UNC LPK2	61.0 mm	**8233350000**
Male connectors	25-pole	RS SD25 SZ	80.0 mm	**8537370000**	RS SD25S UNC LPK2	86.0 mm	**8155650000**
Male connectors	37-pole	RS SD37 SZ	110.0 mm	**8537240000**	RS SD37S UNC LPK2	116.0 mm	**8155660000**
Male connectors	50-pole	RS SD50 SZ	145.0 mm	**8537350000**	RS SD50S UNC LPK2	154.0 mm	**8155670000**
Female connectors	9-pole	RS SD9 BZ	45.0 mm	**8537320000**	RS SD9B UNC LPK2	50.0 mm	**8216480000**
Female connectors	15-pole	RS SD15 BZ	60.0 mm	**8537400000**	RS SD15B UNC LPK2	61.0 mm	**8209730000**
Female connectors	25-pole	RS SD25 BZ	80.0 mm	**8537380000**	RS SD25B UNC LPK2	86.0 mm	**8155620000**
Female connectors	37-pole	RS SD37 BZ	110.0 mm	**8537250000**	RS SD37B UNC LPK2	116.0 mm	**8155630000**

Note

Accessories

Note

Close the catalogue

For Télémécanique Premium and Micro PLC analogue I/O cards

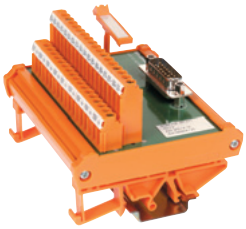
RS8AI PREM/APR – 8-channel

8 analogue inputs
Version: screw connection

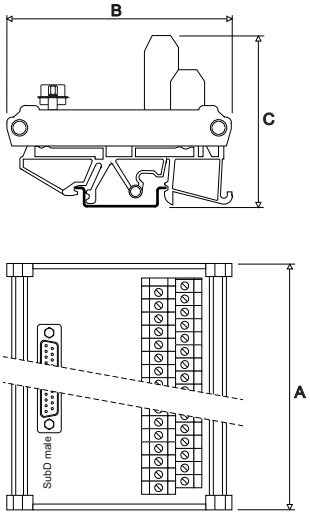


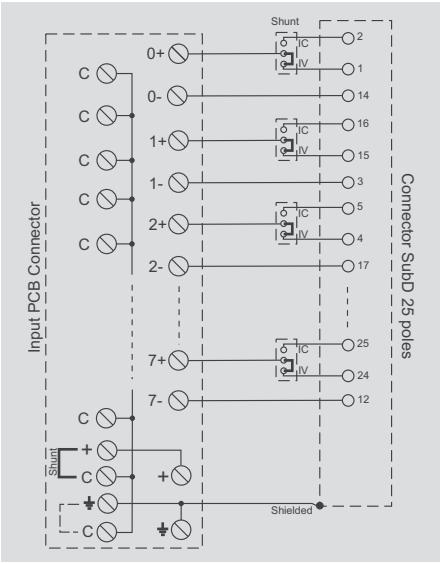
RS8I1OA MICRO – 9-channel

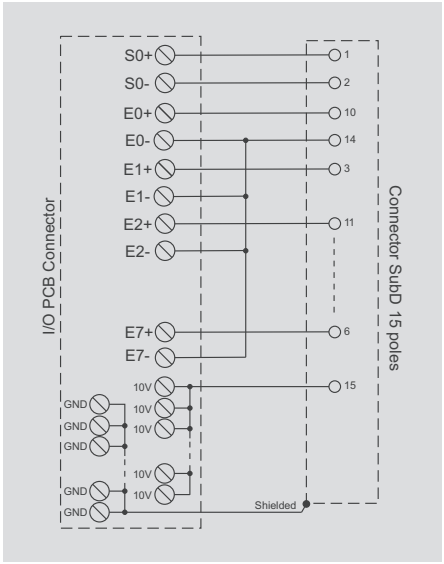
8 analogue inputs and 1 output
Version: screw connection



Dimensions







Technical data

Connection			
Connection to PLC		25-pole D-SUB male connector	15-pole D-SUB male connector
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		–	–
Input-Output Data			
Number of channels		8	9
Operating voltage		≤ 25 V AC 50 V DC	≤ 25 V AC 50 V DC
Common distribution		Shield, + or – (selectable with jumper)	Shielding
PLC card supply current fuse		–	–
Disconnection		Yes	–
Current measuring test point		–	–
Voltage measuring test point		–	Yes
Continuous shielding		Yes	Yes
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	II
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	116 x 87.5 x 72	100 x 87.5 x 72
Note		Current/Voltage Switchable	

Ordering data

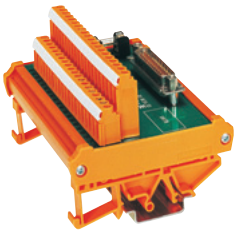
	Type	Order No.	Type	Order No.
Screw connection	RS8AI PREM/APR SD/V	**9448030000**	RS8I1OA MICRO SD/V	**9448040000**
Tension clamp connection				
Note				

Input / output for analogue cards

For 16-channel analogue I/O cards

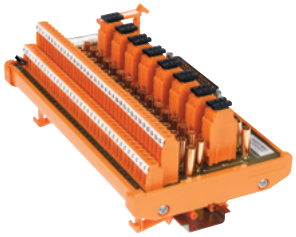
RS AIO-DP - 16-channel

Common distribution
Version: screw connection

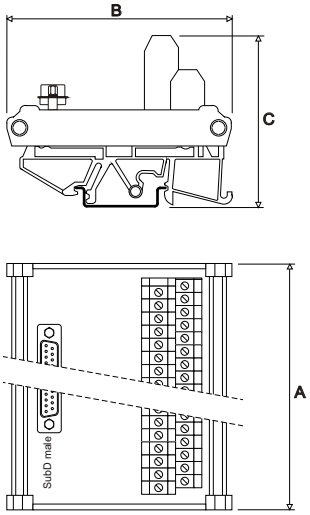


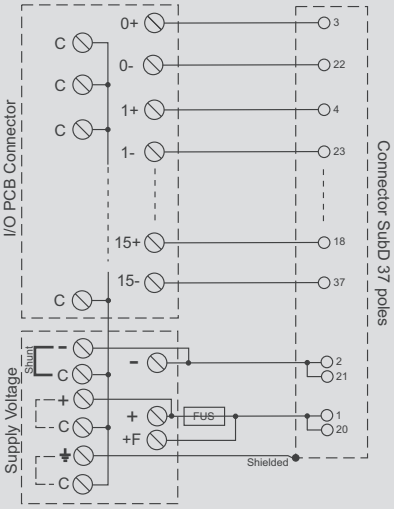
RS AIO/I-M-DP - 16-channel

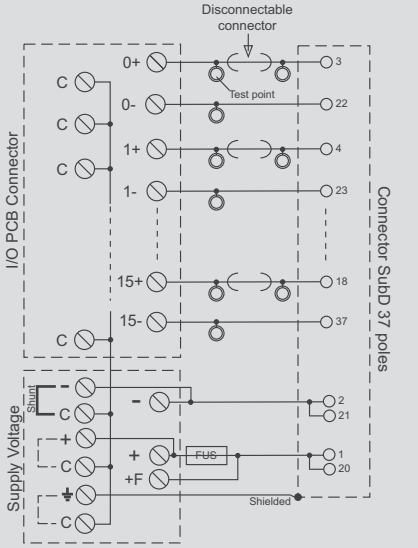
Common distribution, disconnection and test
Version: screw / tension clamp



Dimensions







Technical data

Connection			
Connection to PLC		37-pole D-SUB male connector	37-pole D-SUB male connector
Connection type V (screw clamp) Flexible/Solid		0.5…4 mm² / 0.5…6 mm² (AWG 26...12)	0.5…4 mm² / 0.5…6 mm² (AWG 26...12)
Connection type Z (tension clamp) Flexible/Solid		–	0.2...1.5 mm² / 0.2...2.5 mm² (AWG 24...14)
Input-Output Data			
Number of channels		16	16
Operating voltage		≤ 25 V AC 50 V DC	≤ 25 V AC 50 V DC
Common distribution		Shield, + or – (selectable with jumper)	Shield, + or – (selectable with jumper)
PLC card supply current fuse		3.15 A	3.15 A
Disconnection		–	Yes - each channel
Current measuring test point		–	Yes - 2 female testing points dia. 4 mm
Voltage measuring test point		–	Yes - 2 female testing points dia. 4 mm
Continuous shielding		Yes	Yes
Insulation coordination (EN50178)			
Rated voltage		< 50 V AC	< 50 V AC
Overvoltage category		III	III
Pollution degree		2	2
Insulation test voltage		0.5 KV DC	0.5 KV DC
Ambient temperature		-25…50 °C	-25…50 °C
Storage temperature		-40…60 °C	-40…60 °C
Dimensions			
Length A x width B x height C	mm	205 x 87.5 x 72	197 x 109 x 81
Note			

Ordering data

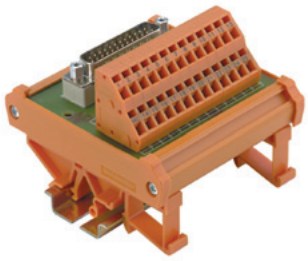
	Type	Order No.	Type	Order No.
Screw connection	RS16AIO-DP SD/V	**9448020000**	RS16AIO/I-M-DP SD/V	**9448120000**
Tension clamp connection			RS16AIO/I-M-DP SD/Z	**9449120000**
Note				

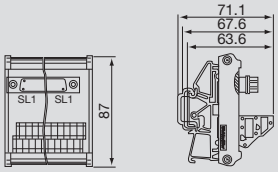
Close the catalogue

Interface units IEC 807-2 DIN 41652 (Sub-D connector)

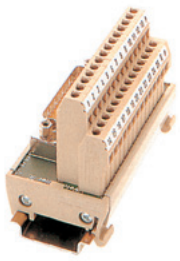
- Pin and socket connector with screw locking system UNC 4/40
- Tension clamp or screw connection system
- 45 or 87 mm wide
- For mounting on TS32, TS35 x 7.5 and TS35 x 15

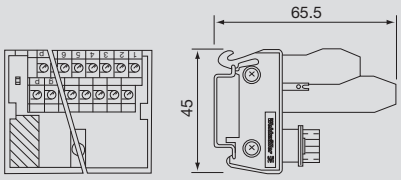
RSSD Z/ SUB-D





RSSD S/ SUB-D





Technical data

Connection data			
Connection on process side		PCB terminal LM2NZF	PCB terminal LPK 2 H
Stripping length		7.0 mm	7.0 mm
Connection on control side		D-SUB acc. IEC 807-2	D-SUB acc. IEC 807-2
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage		125 V AC/ 150 V DC	125 V AC/ 150 V DC
Rated current per connection		1.5 A	1.5 A
Test voltage (~eff)		0.6 kV	0.6 kV
Test torque			0.40 Nm
Storage temperature		-40 °C...+70 °C	-40 °C...+70 °C
Ambient temperature (operational)		0 °C...+55 °C	0 °C...+55 °C
Terminal rail		TS 35 - TS 32	TS 35
Insulation coordination (EN 50178)			
Surge category		III	III
Pollution severity		2	2
Approvals			
Standards		EN 50178	EN 50178
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
Length x width x height	mm	87.0 x — x 63.6	45.0 x — x 65.5
Note			

Ordering data

		Type	Width	Order No.	Type	Width	Order No.
Male connectors	9-pole	RS SD9 SZ	45.0 mm	**8537260000**	RS SD9S UNC LPK2	50.0 mm	**8259010000**
Male connectors	15-pole	RS SD15 SZ	60.0 mm	**8537390000**	RS SD15S UNC LPK2	61.0 mm	**8233350000**
Male connectors	25-pole	RS SD25 SZ	80.0 mm	**8537370000**	RS SD25S UNC LPK2	86.0 mm	**8155650000**
Male connectors	37-pole	RS SD37 SZ	110.0 mm	**8537240000**	RS SD37S UNC LPK2	116.0 mm	**8155660000**
Male connectors	50-pole	RS SD50 SZ	145.0 mm	**8537350000**	RS SD50S UNC LPK2	154.0 mm	**8155670000**
Female connectors	9-pole	RS SD9 BZ	45.0 mm	**8537320000**	RS SD9B UNC LPK2	50.0 mm	**8216480000**
Female connectors	15-pole	RS SD15 BZ	60.0 mm	**8537400000**	RS SD15B UNC LPK2	61.0 mm	**8209730000**
Female connectors	25-pole	RS SD25 BZ	80.0 mm	**8537380000**	RS SD25B UNC LPK2	86.0 mm	**8155620000**
Female connectors	37-pole	RS SD37 BZ	110.0 mm	**8537250000**	RS SD37B UNC LPK2	116.0 mm	**8155630000**

Note

Accessories

Note

Close the catalogue