Weidmüller interface units

Given the need to reduce costs in electrical cabinet construction, interface units offer an alternative to wiring concepts with point-to-point wiring. The prime function of interface units is to act as a trouble-free adapter element between standardised plug connectors and point-to-point wiring or other connection systems.

Interface units consist of the following individual components:
- Extruded profile for inserting the PCB
- End plates for fitting on the mounting rail
- Clip-on feet for locking on standardised mounting rails TS 32 and TS 35
- PCB with connecting and indicating elements, DIN plug connectors and ample marking facilities for equipment identification

The plug connectors used for the interface units can be divided into the following groups:
- Plug connector to IEC 603-1/DIN 41 651
- Sub-miniature plug connectors (SUB-D) to IEC 807-2/ DIN 41652
- Plug connectors for PCBs to IEC 603/DIN 41612 and DIN 41615
- ELCO plug connectors for hazardous area applications

Advantages of the interface units:
- Two- and three-tier PCB terminals save space
- Conventional point-to-point wiring only needed on one side, thus saving costs
- Greater safety, preventing wiring errors
- Optional: status LED on the interface units
- Rapid troubleshooting with additional test and measuring devices
- Simplified setup and documentation

Interface units let users implement pioneering concepts in switchboard design with potential for rationalisation. Customised wiring concepts can also be solved rationally through the use of special interface units.

Pre-assembled leads with the corresponding plug connector systems are used as the connection between the series-connected controller and the interface unit. This provides the greatest savings for the user. The use of interface units reduces the individual circuitry, which reduces labour and installation time and also hidden costs, in particular a reduction material costs following a reduction in the number of individual cables and leads, cable ducts, terminals and terminal blocks required. The transition to point-to-point wiring takes place directly at the interface element.

Users have a choice between screw, tension clamp or spade connections for connecting actuators and/or sensors. As an option, interface units can also integrate additional functions such as status indicator, signal disconnector, fuses or shielding. Identification systems make it easier to trace the signals to the corresponding element.

RSF interface units for pre-assembled leads with plug connectors to IEC 603-1/DIN 41651

Passive interface for 10 … 64 signals for adapting pre-assembled leads with plug connectors to IEC 603-1 / DIN 41651 to screw or tension clamp connection systems.

When used in combination with a status indicator (LED), this guarantees rapid information about the switching state of incoming and outgoing signals.

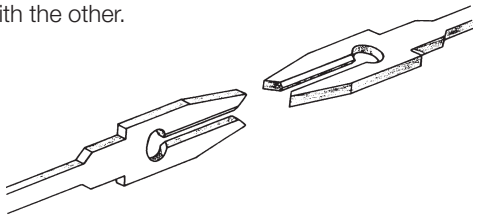
RSSD interface units for pre-assembled leads with SUB-D plug connectors to IEC 807-2/DIN 41652

Passive interface unit for 9 … 50 signals for adapting pre-assembled leads with SUB-D plug to IEC 807-2/DIN 41652 to screw or tension clamp connection systems.

The components are supplied with either female or male connectors. A spacer block between plug connector and PCB cushions the mechanical forces occurring between the connected cables. RSSD interface units can be supplied with an earth terminal for shielded leads as an optional feature. An additional test point simplifies testing and measuring during initial setup and when servicing the system.

RS ELCO interface units for pre-assembled leads with hermaphrodite plug connector system

Weidmuller's passive interface units are used for adapting hermaphrodite ELCO multi-pole connectors, for input and output, to screw terminal systems. The hermaphrodite contact is a fork-type contact that is identical in design on both sides of the connection, but with one fork turned through 90° to engage with the other.



RS VERT interface units as voltage distributor

Passive interface units for the distribution of dc supply voltage. These interface units are available in three designs for distribution to 8, 16 and 72 connections, for positive and negative voltages in each case:

- 8x and 16x distributor just 45 mm wide overall, 72x distributor 100 mm wide
- Fed by two connection elements for positive and negative voltages in each case
- Fits on TS32/35 mounting rails

RS VERT voltage distributors can also be used in small enclosures and provide clearly organised distribution.

RS RJ45 interface units for connecting data lines

The RS RJ45 interface module offers the user a convenient, easy-to-use interface for connecting modems, notebooks and other office equipment in the electrical cabinet.

The module converts the standard RJ45 connection to a screw terminal system or acts as a coupling to connect data leads by means of two RJ45 sockets. For data transmission rates of up to 100 Mbps, it is advisable to connect one end of the shield of the data cable to a protective earth. The interface modules can be fitted on TS 32/35 mounting rails.

The advantages of card holders

Card holders for adapting Euro cards to plug connectors to IEC 603/DIN 41612 and DIN 41617

Card holders are used for rapid adaptation of electronic components. Just like interface units, plug connectors to IEC 803/DIN 41612/41617 are adapted to screw or spade connections on the card holder.

A card holder has the following features:
- Board with PCB terminals and standardised plug connectors to accommodate an electronic module in19" Euro format, 160 x 100 mm or 233 x 1260 mm
- Holding post and locking mechanism for fixing the card
- Mounting plate and mounting feet for direct assembly or fitting on mounting rails

SKH2 card holders provide ideal design and functions:

- 19" Euro cards covered completely from the back
- Eject mechanism for one-hand operation
- Card can be fixed with a screw at the front, as in a 19" rack

Card holders can be used in industrial applications for quickly adapting various 19" modules while saving the cost of a 19" component rack. Racks also take up more space and can usually only be accessed from behind. In addition, they often lack screw or tension clamp terminals for external circuits.

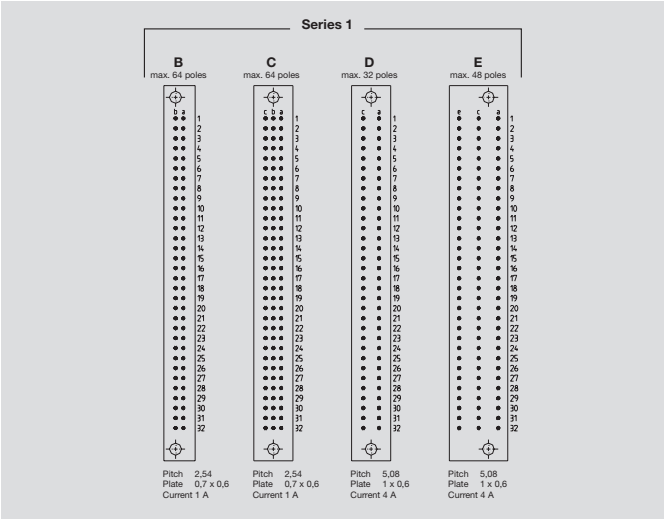
Card holders are used when
- there are just a few cards to be accommodated and connected,
- the PCB card is in a remote location, where wiring is inconvenient,
- there is a need to extend older systems by adding more electronic modules.

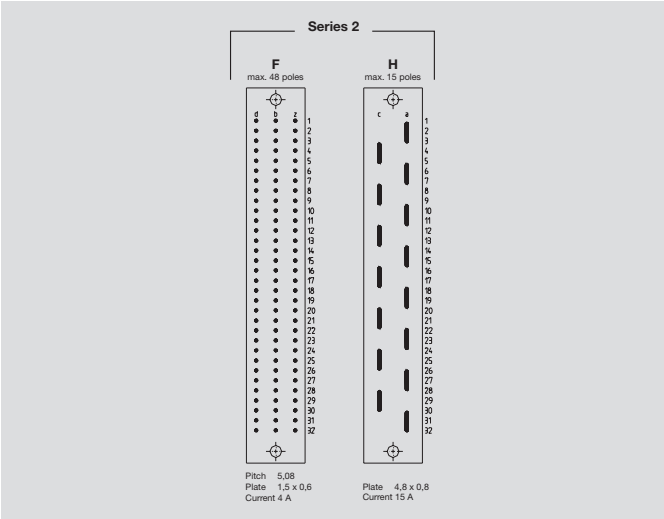
Other typical applications include testing devices in production processes and laboratories, where it is important to be able to replace the PCB quickly and handle the connection planes without difficulty.

Standards

The products meet the following standards:
- EN 50178 Electrical equipment for use in high-current installations
- DIN VDE 0109 Isolation coordination in low voltage systems including creepage and clearance paths for PCB assemblies

Plug connector types to IEC 603/DIN 41612





Series 1

Plug connectors in this series are available in multi-pole design with small contact gaps and high current load of 1 A. Versions with up to 4 A contact current are also available on the market with a pitch size of 5.08 mm and fewer poles (up to 48 poles).

Design B

64-pole plug connector with a and b row configuration and max. contact current load 1A. Rated voltage 125 V to IEC 664/EN 50178. There is also a version with 32 poles where only the even numbered poles are used.

Design C

Extension of type B with row c also configured to produce a 96-pole plug connector. There is also a C 64 version where only the outer rows c and a are used. A further reduction in configuration to the even numbered poles results in type C 32, with a vertical and horizontal contact pitch size of 5.08 mm.

Design D

Dimensions and contact arrangements identical with type C 32. The reinforced contacts can take up to 4 A.

Design E

Extension of type D32, with contact row e configured to produce a 48-pole version. This plug connector with 4 A contact current in pitch size 5.08 mm is rated for high current loads. All even numbered poles in contact rows e, c and a are configured.

Series 2

This series differs from series 1 with different pitch sizes of 5.08 mm for the back connections and 3.81 mm for the contact rows on the connector face. The plastic housing is higher at the back to increase the creepage paths (metal plate, board). The wiring plane is therefore different to series 1. All contacts are rated for a current load of 4 A. The attachment holes are arranged centrally at the outer edge of the sockets.

Design F

This unit offers 48 poles with complete configuration of contact rows d, b and z. Also available are 32-pole versions configured using rows z and b or z and d. The significant feature of the z and b 32-pole version is improved creepage and clearance paths.

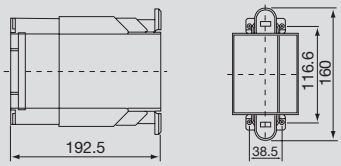
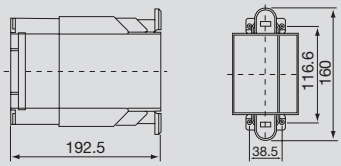
Design H

Same dimensions as type F, configured with 11- or 15-pole high-current contacts. The connection geometry differs from the other types. The contacts can take up to max. 15 A.

Card holders

19” Euro format

- For inserting 19” rack cards with Euro format 100 x 160 mm
- Converts IEC 603/ DIN 41612 or DIN 41617 plug-in connectors to PCB connection elements
- Mechanical lever for releasing and ejecting card
- 19” units can be fixed with screws at front
- Protective cover on rear of board
- Direct mounting or optional rail mounting on TS35

	SKH2 31	SKH2 B64
		
		

Technical data

		SKH2 31	SKH2 B64
Connection data			
Connection on process side		PCB terminal LP 5.08	PCB terminal LP2N
Stripping length		7.0 mm	7.0 mm
Connection on control side		Plug-in connector to DIN 41617 female connector	Plug-in connector to DIN 41617 female connector
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		4 A	2 A
Test voltage (~eff)		0.9 kV	1.0 kV
Test torque		0.40 Nm	0.40 Nm
Storage temperature		-40 °C...+60 °C	-40 °C...+60 °C
Operating temperature		0 °C...+55 °C	0 °C...+55 °C
Terminal rail		TS 35 + direct assembly	TS 35 + direct assembly
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	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	60.7 x — x 192.5	80.7 x — x 192.5
Note		160 mm wide	160 mm wide

Ordering data

Type	Qty	Order No.
SKH2 31 LP	1	**8174800000**

Type	Qty	Order No.
SKH2 B64 LP2N	1	**8174810000**

Note

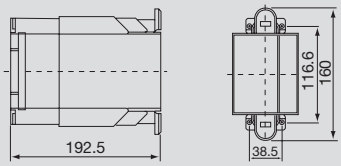
Accessories

Note	SKH2 31	SKH2 B64
	Assembly kit TS35 SKH/35 8209340000	Assembly kit TS35 SKH/35 8209340000

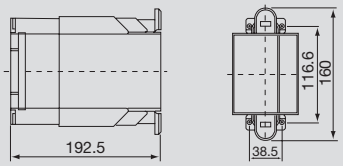
19” Euro format

- For inserting 19” rack cards with Euro format 100 x 160 mm
- Converts IEC 603/ DIN 41612 or DIN 41617 plug-in connectors to PCB connection elements
- Mechanical lever for releasing and ejecting card
- 19” units can be fixed with screws at front
- Protective cover on rear of board
- Direct mounting or optional rail mounting on TS35

SKH2 C64



SKH2 D32



Technical data

		SKH2 C64	SKH2 D32
Connection data			
Connection on process side		PCB terminal LP2N	PCB terminal LP 5.08
Stripping length		7.0 mm	7.0 mm
Connection on control side		Plug-in connector to DIN 41617 female connector	Plug-in connector to DIN 41617 female connector
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage		125 V AC/ 150 V DC	250 V
Rated current per connection		2 A	4 A
Test voltage (~eff)		1.0 kV	1.0 kV
Test torque		0.40 Nm	0.40 Nm
Storage temperature		-40 °C…+60 °C	-40 °C…+60 °C
Operating temperature		0 °C…+55 °C	0 °C…+55 °C
Terminal rail		TS 35 + direct assembly	TS 35 + direct assembly
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	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	80.7 x — x 192.5	55 x — x 192.5
Note		160 mm wide	160 mm wide

Ordering data

Type	Qty	Order No.
SKH2 C64 LP2N	1	**8174820000**

Type	Qty	Order No.
SKH2 D32 LP	1	**8174830000**

Note

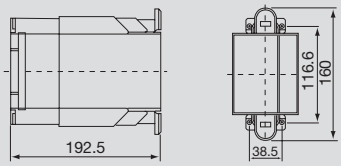
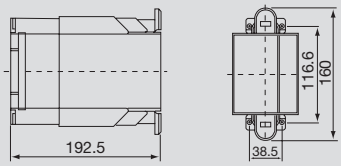
Accessories

Note	
	Assembly kit TS35 SKH/35 8209340000
	Assembly kit TS35 SKH/35 8209340000

Card holders

19” Euro format

- For inserting 19” rack cards with Euro format 100 x 160 mm
- Converts IEC 603/ DIN 41612 or DIN 41617 plug-in connectors to PCB connection elements
- Mechanical lever for releasing and ejecting card
- 19” units can be fixed with screws at front
- Protective cover on rear of board
- Direct mounting or optional rail mounting on TS35

	SKH2 F32 Z+B	SKH2 F32 Z+D
		
		

Technical data

Connection data			
Connection on process side		PCB terminal LP 5.08	PCB terminal LP 5.08
Stripping length		7.0 mm	7.0 mm
Connection on control side		Plug-in connector to DIN 41617 female connector	Plug-in connector to DIN 41617 female connector
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage		250 V	250 V
Rated current per connection		4 A	4 A
Test voltage (~eff)		1.0 kV	1.0 kV
Test torque		0.40 Nm	0.40 Nm
Storage temperature		-40 °C…+60 °C	-40 °C…+60 °C
Operating temperature		0 °C…+55 °C	0 °C…+55 °C
Terminal rail		TS 35 + direct assembly	TS 35 + direct assembly
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	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	80.7 x — x 192.5	80.7 x — x 192.5
Note		160 mm wide	160 mm wide

Ordering data

Type	Qty	Order No.
SKH2 F32 (Z+B) LPP	1	**8174850000**

Type	Qty	Order No.
SKH2 F32 (Z+D) LP	1	**8174860000**

Note

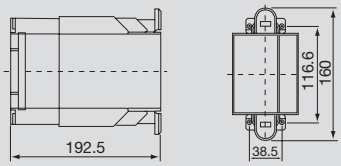
Accessories

Note	
	Assembly kit TS35 SKH/35 8209340000
	Assembly kit TS35 SKH/35 8209340000

19” Euro format

- For inserting 19” rack cards with Euro format 100 x 160 mm
- Converts IEC 603/ DIN 41612 or DIN 41617 plug-in connectors to PCB connection elements
- Mechanical lever for releasing and ejecting card
- 19” units can be fixed with screws at front
- Protective cover on rear of board
- Direct mounting or optional rail mounting on TS35

SKH2 F48



Technical data

Connection data	
Connection on process side	PCB terminal LP2N
Stripping length	7.0 mm
Connection on control side	Plug-in connector to DIN 41617 female connector
Rated data	
Conversion PCB/plug connector	1:1
Rated voltage	250 V
Rated current per connection	4 A
Test voltage (~eff)	1.0 kV
Test torque	0.40 Nm
Storage temperature	-40 °C...+60 °C
Operating temperature	0 °C...+55 °C
Terminal rail	TS 35 + direct assembly
Insulation coordination (EN 50178)	
Surge category	III
Pollution severity	2
Approvals	
Standards	EN 50178

Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4
Length x width x height	mm	80.7 x — x 192.5
Note		160 mm wide

Ordering data

Type	Qty	Order No.
SKH2 F48 LP	1	**8174880000**

Note

Accessories

Note	Assembly kit TS35 SKH/35 8209340000

Card holders

19” Euro format

- For inserting cards in Euro format 100 x 160 mm
- Converts IEC 603/DIN 41612 or DIN 41617 plug-in connectors to PCB connection elements
- Direct mounting or rail mounting on TS35 with accessories

Accessories:

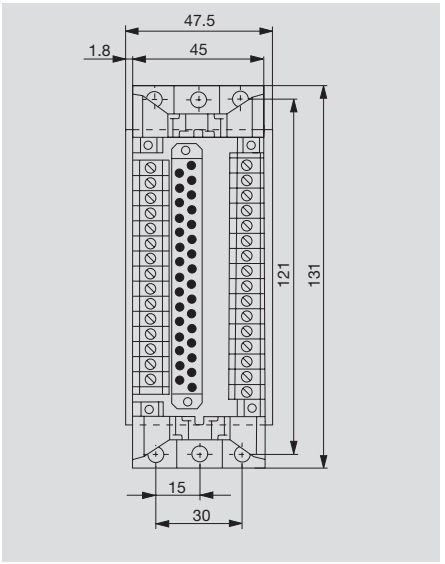
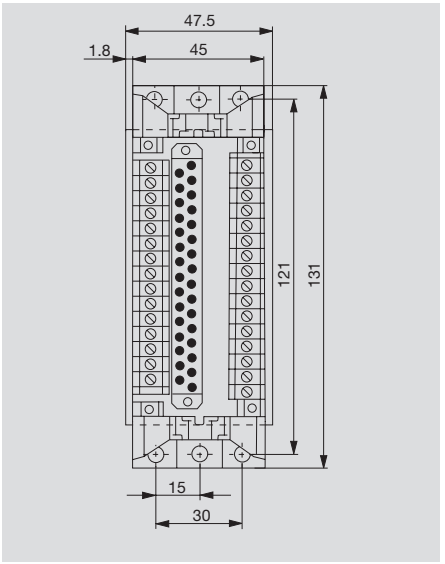
Fixing plate HP 0137100000 (included in scope of supply)

Grip white ZG 0128000000

Grip black ZG 0128060000

Mounting plate MP 2054280000

Mounting foot TS35 FM 0687900000

	SKH 31	SKH 31 250V
		
		

Technical data

		SKH 31	SKH 31 250V
Connection data			
Connection on process side		PCB terminal LP 5.08	PCB terminal LP 5.08
Stripping length		7.0 mm	7.0 mm
Design/Contact complement		DIN41617 31-pole /	DIN41617 31-pole /
Type		PCB locking 1 clip	PCB locking 1 clip
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage/Rated current per connection		125 V AC/ 150 V DC /5 A	250 V /5 A
Test voltage (~eff)/Test torque		1.3 kV/0.40 Nm	1.5 kV/0.40 Nm
Storage temperature		-40 °C…+60 °C	-40 °C…+60 °C
Operating temperature		0 °C…+55 °C	0 °C…+55 °C
Terminal rail		TS 35 + direct assembly	TS 35 + direct assembly
Insulation coordination (EN 50178)			
Surge category/Pollution severity		III /2	III /2
Standards		EN 50178	EN 50178
Dimensions			
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	47.5 x 131 x 144	47.5 x 131 x 144
Note			

Ordering data

	SKH 31	SKH 31 250V
PCB locking 1 clip	**Type**: SKH 31 LP RH1	**Type**: SKH 31 LP 250VAC RH1
	Qty.: 1	**Qty.**: 1
	Order No.: **0586661001**	**Order No.**: **0648661001**
Note	Mounting plate MP 2054280000 Mounting foot TS35 FM4 0687900000	Mounting plate MP 2054280000 Mounting foot TS35 FM4 0687900000

19” Euro format

- For inserting cards in Euro format 100 x 160 mm
- Converts IEC 603/DIN 41612 or DIN 41617 plug-in connectors to PCB connection elements
- Direct mounting or rail mounting on TS35 with accessories

Accessories:

Fixing plate HP 0137100000 (included in scope of supply)

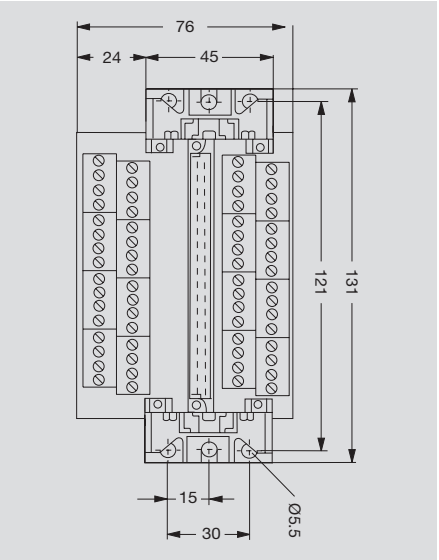
Grip white ZG 0128000000

Grip black ZG 0128060000

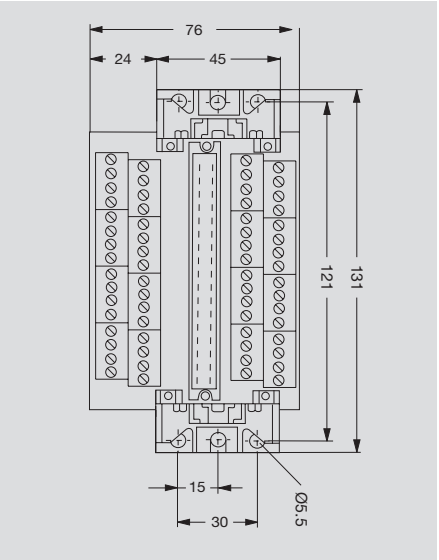
Mounting plate MP 2054280000

Mounting foot TS35 FM 0687900000

SKH B64



SKH C64



Technical data

		SKH B64	SKH C64
Connection data			
Connection on process side		PCB terminal LP2N	PCB terminal LP2N
Stripping length		7.0 mm	7.0 mm
Design/Contact complement		IEC603 B64 /a and b	IEC603 C64 /a and c
Type		PCB locking 2 clips	
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage/Rated current per connection		125 V AC/ 150 V DC /2 A	125 V AC/ 150 V DC /2 A
Test voltage (~eff)/Test torque		0.5 kV/0.40 Nm	0.5 kV/0.40 Nm
Storage temperature		-40 °C…+60 °C	-40 °C…+60 °C
Operating temperature		0 °C…+55 °C	0 °C…+55 °C
Terminal rail		TS 35 + direct assembly	TS 35 + direct assembly
Insulation coordination (EN 50178)			
Surge category/Pollution severity		III /2	III /2
Standards		EN 50178	EN 50178
Dimensions			
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	76 x 131 x 144	76 x 131 x 144
Note			

Ordering data

	SKH B64	SKH C64
PCB locking 2 clips	**Type** / Qty. / **Order No.**	**Type** / Qty. / **Order No.**
	SKH B64 RH2 / 1 / **0577360000**	SKH C64 RH2 / 1 / **0178960000**
		SKH C64 RH2 / 1 / **0646660000**
Note	Mounting plate MP 2054280000 Mounting foot TS35 FM4 0687900000	Mounting plate MP 2054280000 Mounting foot TS35 FM4 0687900000

Card holders

19" Euro format

- For inserting cards in Euro format 100 x 160 mm
- Converts IEC 603/DIN 41612 or DIN 41617 plug-in connectors to PCB connection elements
- Direct mounting or rail mounting on TS35 with accessories

Accessories:

Fixing plate HP 0137100000 (included in scope of supply)

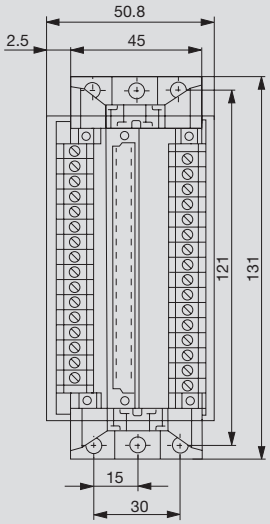
Grip white ZG 0128000000

Grip black ZG 0128060000

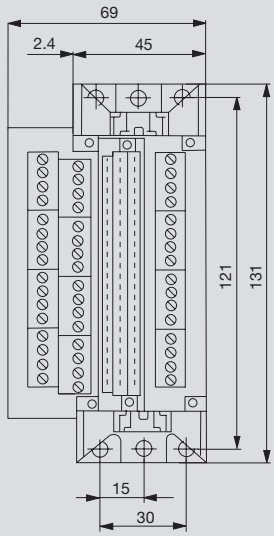
Mounting plate MP 2054280000

Mounting foot TS35 FM 0687900000

SKH D32



SKH E48



Technical data

		SKH D32	SKH E48
Connection data			
Connection on process side		PCB terminal LP 5.08	PCB terminal LP2N
Stripping length		7.0 mm	7.0 mm
Design/Contact complement		IEC603 D32 /a and c	IEC603 E48 /e, c, a
Type		PCB locking 1 clip	PCB locking 1 clip
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage/Rated current per connection		250 V /6 A	125 V AC/ 150 V DC /5 A
Test voltage (~eff)/Test torque		2.0 kV/0.40 Nm	1.3 kV/0.40 Nm
Storage temperature		-40 °C…+60 °C	-40 °C…+60 °C
Operating temperature		0 °C…+55 °C	0 °C…+55 °C
Terminal rail		TS 35 + direct assembly	TS 35 + direct assembly
Insulation coordination (EN 50178)			
Surge category/Pollution severity		III /2	III /2
Standards		EN 50178	EN 50178
Dimensions			
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	50.8 x 131 x 144	69 x 131 x 144
Note			

Ordering data

	SKH D32			SKH E48		
	Type	**Qty.**	**Order No.**	**Type**	**Qty.**	**Order No.**
PCB locking 1 clip	SKH D32 LP 5/16 RH2	1	**0586761001**	SKH E48 LP2/LP	1	**0690660000**
Note	Mounting plate MP 2054280000 Mounting foot TS35 FM4 0687900000			Mounting plate MP 2054280000 Mounting foot TS35 FM4 0687900000		

19” Euro format

- For inserting cards in Euro format 100 x 160 mm
- Converts IEC 603/DIN 41612 or DIN 41617 plug-in connectors to PCB connection elements
- Direct mounting or rail mounting on TS35 with accessories

Accessories:

Fixing plate HP 0137100000 (included in scope of supply)

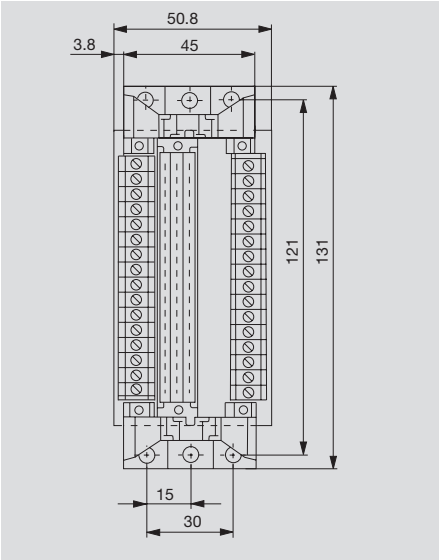
Grip white ZG 0128000000

Grip black ZG 0128060000

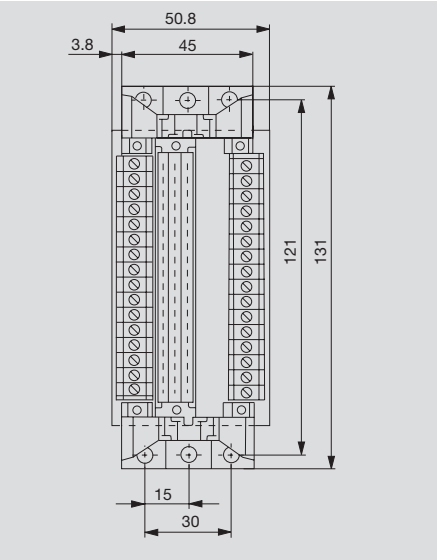
Mounting plate MP 2054280000

Mounting foot TS35 FM 0687900000

SKH F32 Z&B



SKH F32 Z&D



Technical data

		SKH F32 Z&B	SKH F32 Z&D
Connection data			
Connection on process side		PCB terminal LP 5.08	PCB terminal LP 5.08
Stripping length		7.0 mm	7.0 mm
Design/Contact complement		IEC603 F32 /z and b	IEC603 F32 /z and d
Type		PCB locking 1 clip	PCB locking 1 clip
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage/Rated current per connection		250 V /6 A	250 V /6 A
Test voltage (~eff)/Test torque		1.3 kV/0.40 Nm	1.3 kV/0.40 Nm
Storage temperature		-40 °C…+60 °C	-40 °C…+60 °C
Operating temperature		0 °C…+55 °C	0 °C…+55 °C
Terminal rail		TS 35 + direct assembly	TS 35 + direct assembly
Insulation coordination (EN 50178)			
Surge category/Pollution severity		III /2	III /2
Standards		EN 50178	EN 50178
Dimensions			
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	50.8 x 131 x 144	50.8 x 131 x 144
Note			

Ordering data

	SKH F32 Z&B			SKH F32 Z&D		
	Type	**Qty.**	**Order No.**	**Type**	**Qty.**	**Order No.**
PCB locking 1 clip	SKH F32 (Z&B) LP RH2	1	**0586861001**	SKH F32 (Z&D) LP RH2	1	**0586961001**
Note	Mounting plate MP 2054280000 Mounting foot TS35 FM4 0687900000			Mounting plate MP 2054280000 Mounting foot TS35 FM4 0687900000		

Card holders

19” Euro format

- For inserting cards in Euro format 100 x 160 mm
- Converts IEC 603/DIN 41612 or DIN 41617 plug-in connectors to PCB connection elements
- Direct mounting or rail mounting on TS35 with accessories

Accessories:

Fixing plate HP 0137100000 (included in scope of supply)

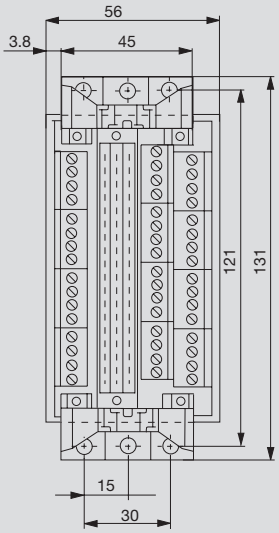
Grip white ZG 0128000000

Grip black ZG 0128060000

Mounting plate MP 2054280000

Mounting foot TS35 FM 0687900000

SKH F48



SKH H15

Technical data

		SKH F48	SKH H15
Connection data			
Connection on process side		PCB terminal LP2N	PCB terminal LP 5.08
Stripping length		7.0 mm	7.0 mm
Design/Contact complement		IEC603 F48 /z, b, d	IEC603 H15 /
Type		PCB locking 1 clip	PCB locking 1 clip
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage/Rated current per connection		125 V AC/ 150 V DC /5 A	250 V /10 A
Test voltage (~eff)/Test torque		1.3 kV/0.40 Nm	1.3 kV/0.40 Nm
Storage temperature		-40 °C…+60 °C	-40 °C…+60 °C
Operating temperature		0 °C…+55 °C	0 °C…+55 °C
Terminal rail		TS 35 + direct assembly	TS 35 + direct assembly
Insulation coordination (EN 50178)			
Surge category/Pollution severity		III /2	III /2
Standards		EN 50178	EN 50178
Dimensions			
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	56 x 131 x 144	56 x 131 x 144
Note			

Ordering data

	Type	Qty.	Order No.
PCB locking 1 clip	SKH F48	1	**0587060000**
Note	Mounting plate MP 2054280000 Mounting foot TS35 FM4 0687900000		

	Type	Qty.	Order No.
	SKH H15S	1	**8051300000**
	Mounting plate MP 2054280000 Mounting foot TS35 FM4 0687900000		

19” Double Euro format

- For inserting cards in Double Euro format 233 x 160 mm
- Converts IEC 603/DIN 41612 plug-in connectors to PCB connection elements
- Direct mounting or rail mounting on TS35 with accessories

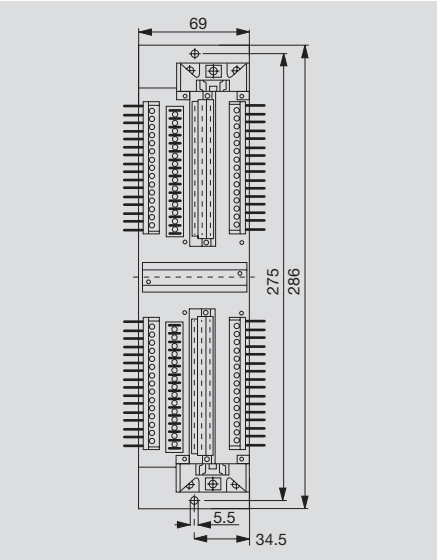
Accessories:

Fixing plate HP 0136800000 (included in scope of supply)

Grip white ZG 0128000000

Grip black ZG 0128060000

SKH (233 x 160 mm)



Technical data

Connection data			
Connection on process side		Screw connection	
Stripping length		7.0 mm	
Design/Contact complement		/z, b, d/ a and c	
Type		PCB locking 2 clips	
Rated data			
Conversion PCB/plug connector		1:1	
Rated voltage/Rated current per connection		125 V AC/ 150 V DC /5 A	
Test voltage (~eff)/Test torque		1.3 kV/0.40 Nm	
Storage temperature		-40 °C…+70 °C	
Operating temperature		0 °C…+55 °C	
Terminal rail		TS 35 + direct assembly	
Insulation coordination (EN 50178)			
Surge category/Pollution severity		III /2	
Standards		EN 50178	
Dimensions		**IEC603 C64 a, c**	**IEC603 D32 a, c**
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	69 x 286 x 144	69 x 286 x 144
Note			

Ordering data

Type	Design
PCB locking 2 clips	IEC603 C64 a, c
PCB locking 2 clips	IEC603 D32 a, c

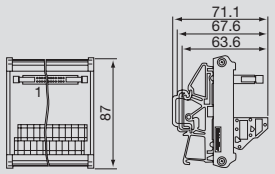
Type	Qty.	Order No.
SKH C64*2 (A&C) RH2	1	**8013120000**
SKH D32*2 LP5.08/16 RH2	1	**8050981001**

Note	
	Mounting plate MP 2051430000 Mounting foot TS35 FM4 0687900000

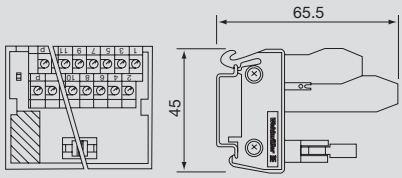
Interface units IEC 603-1

- Pin connector with locking feature to IEC 603-1
- Tension clamp or screw connection system
- 45 or 87 mm wide
- For mounting on TS32, TS35 x 7.5 and TS35 x 15

RSF Z/ IEC 603-1



RSF S 45 mm/ IEC 603-1



Technical data

	RSF Z/ IEC 603-1	RSF S 45 mm/ IEC 603-1
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	Plug-in connector to IEC 603-1/ DIN 41651	Plug-in connector to IEC 603-1/ DIN 41651
Rated data		
Conversion PCB/plug connector	1:1	1:1
Rated voltage	60 V AC/ 75 V DC	60 V AC/ 75 V DC
Rated current per connection	1 A	1 A
Test voltage (~eff)	1.0 kV	1.0 kV
Test torque		0.40 Nm
Storage temperature	-40 °C...+70 °C	-40 °C...+70 °C
Operating temperature	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.) mm²	1.5 / 0.5 / 2.5	1.5 / 0.5 / 2.5
Length x width x height mm	87.0 x — x 64.0	45.0 x — x 65.5
Note		

Ordering data

	RSF Z/ IEC 603-1			RSF S 45 mm/ IEC 603-1		
	Type	**Width**	**Order No.**	**Type**	**Width**	**Order No.**
10-pole	RS F10 Z	50.0 mm	**8537190000**	RS F10 LPK 2H/12	49.0 mm	**8155610000**
14-pole	RS F14 Z	50.0 mm	**8537200000**	RS F14 LPK 2H/16	56.0 mm	**8258980000**
16-pole				RS F16 LPK 2H/18	64.0 mm	**8265540000**
20-pole	RS F20 Z	65.0 mm	**8537110000**	RS F20 LPK 2H/22	71.0 mm	**8155600000**
26-pole	RS F26 Z	80.0 mm	**8537180000**	RS F26 LPK 2H/28	86.0 mm	**8213470000**
34-pole	RS F34 Z	110.0 mm	**8537130000**	RS F34 LPK 2H/36	106.0 mm	**8155590000**
40-pole	RS F40 Z	115.0 mm	**8537140000**	RS F40 LPK 2H/42	121.0 mm	**8155580000**
50-pole	RS F50 Z	145.0 mm	**8537150000**	RS F50 LPK 2H/52	150.3 mm	**8155570000**
60-pole				RS F60 LPK 2H/62	180.0 mm	**8259000000**
64-pole				RS F64 LPK 2H/66	186.0 mm	**8155550000**
Note						

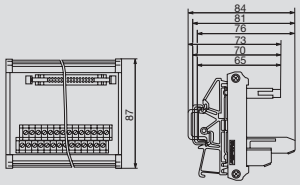
Accessories

Note

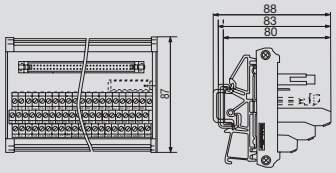
Interface units IEC 603-1

- Pin connector with locking feature to IEC 603-1
- Tension clamp or screw connection system
- 87 mm wide
- For mounting on TS32, TS35 x 7.5 and TS35 x 15

RSF S/ IEC 603 -1



RSF S/ IEC 603-1



Technical data

Connection data			
Connection on process side		PCB terminal LP2N	PCB terminal LP3R
Stripping length		7.0 mm	7.0 mm
Connection on control side		Plug-in connector to IEC 603-1/ DIN 41651	Plug-in connector to IEC 603-1/ DIN 41651
Rated data			
Conversion PCB/plug connector		1:1	1:1
Rated voltage		60 V AC/ 75 V DC	60 V AC/ 75 V DC
Rated current per connection		1 A	1 A
Test voltage (~eff)		1.0 kV	1.0 kV
Test torque		0.50 Nm	0.50 Nm
Storage temperature		-40 °C...+60 °C	-40 °C...+70 °C
Operating temperature		0 °C...+55 °C	0 °C...+55 °C
Terminal rail		TS 35 + TS 32	TS 35 + TS 32
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	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	87.0 x — x 70.0	87.0 x — x 76.0
Note			

Ordering data

	Type	Width	Order No.	Type	Width	Order No.
10-pole	RS F10 LP2N 5/10	50.0 mm	**0224961001**	RS F10 LP3R 3/12	40.0 mm	**8012850000**
14-pole	RS F14 LP2N 5/14	50.0 mm	**0225061001**	RS F14 LP3R 3/14	45.0 mm	**8012860000**
16-pole	RS F16 LP2N 5/16	55.0 mm	**0225161001**	RS F16 LP3R 3/18	50.0 mm	**8012870000**
20-pole	RS F20 LP2N 5/20	65.0 mm	**0224261001**	RS F20 LP3R 3/21	50.0 mm	**8012910000**
26-pole	RS F26 LP2N 5/26	80.0 mm	**0224861001**	RS F26 LP3R 3/27	55.0 mm	**8012920000**
34-pole	RS F34 LP2N 5/34	110.0 mm	**0224361001**	RS F34 LP3R 3/36	70.0 mm	**8012930000**
40-pole	RS F40 LP2N 5/40	115.0 mm	**0224461001**	RS F40 LP3R 3/42	80.0 mm	**8012940000**
50-pole	RS F50 LP2N 5/50	145.0 mm	**0224561001**	RS F50 LP3R 3/51	95.0 mm	**8012950000**
60-pole	RS F60 LP2N 5/60	180.0 mm	**0224661001**	RS F60 LP3R 3/63	115.0 mm	**8012960000**
64-pole	RS F64 LP2N 5/64	180.0 mm	**0224761001**	RS F64 LP3R 3/66	120.0 mm	**8012970000**

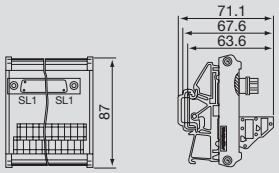
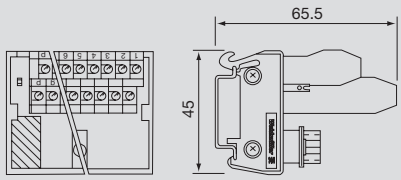
Note

Accessories

Note

Interface units IEC 807-2

- 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

		RSSD Z/ SUB-D	RSSD S/ SUB-D
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 to IEC 807-2	D-SUB to 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)		1.0 kV	1.0 kV
Test torque			0.40 Nm
Storage temperature		-40 °C...+70 °C	-40 °C...+70 °C
Operating temperature		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.)	mm²	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	RS SD9 SZ	45.0 mm	**8537260000**	RS SD9S UNC LPK2	50.0 mm	**8259010000**
Male connectors	RS SD15 SZ	60.0 mm	**8537390000**	RS SD15S UNC LPK2	61.0 mm	**8233350000**
Male connectors	RS SD25 SZ	80.0 mm	**8537370000**	RS SD25S UNC LPK2	86.0 mm	**8155650000**
Male connectors	RS SD37 SZ	110.0 mm	**8537240000**	RS SD37S UNC LPK2	116.0 mm	**8155660000**
Male connectors	RS SD50 SZ	145.0 mm	**8537350000**	RS SD50S UNC LPK2	154.0 mm	**8155670000**
Female connectors	RS SD9 BZ	45.0 mm	**8537320000**	RS SD9B UNC LPK2	50.0 mm	**8216480000**
Female connectors	RS SD15 BZ	60.0 mm	**8537400000**	RS SD15B UNC LPK2	61.0 mm	**8209730000**
Female connectors	RS SD25 BZ	80.0 mm	**8537380000**	RS SD25B UNC LPK2	86.0 mm	**8155620000**
Female connectors	RS SD37 BZ	110.0 mm	**8537250000**	RS SD37B UNC LPK2	116.0 mm	**8155630000**

Note

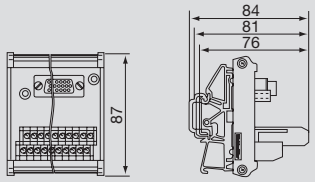
Accessories

Note

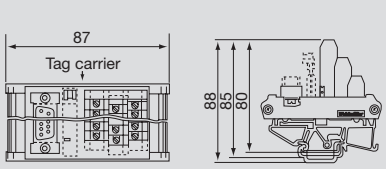
Interface units IEC 807-2

- Pin and socket connector with screw locking system UNC 4/40
- PCB connection element with screw connection
- Clip-on foot for mounting on TS32, TS35 x 7.5 and TS35 x 15

RSSD S/ SUB-D



RSSD S/ SUB-D



Technical data

Connection data			
Connection on process side		PCB terminal LP2N	PCB terminal LP3R
Stripping length		7.0 mm	7.0 mm
Connection on control side		D-SUB to IEC 807-2	D-SUB to 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)		1.0 kV	1.0 kV
Test torque		0.50 Nm	0.50 Nm
Storage temperature		-40 °C...+70 °C	-40 °C...+70 °C
Operating temperature		0 °C...+55 °C	0 °C...+55 °C
Terminal rail		TS 35 + TS 32	TS 35 + TS 32
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	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	87.0 x — x 76.0	87.0 x — x 80.0
Note			

Ordering data

	Type	Width	Order No.	Type	Width	Order No.
Male connectors	RS SD9S UNC 4.40 LP2N	45.0 mm	**8003901001**	RS SD9S LP3R	40.0 mm	**8019930000**
Male connectors	RS SD15S UNC 4.40	60.0 mm	**8005201001**	RS SD15S LP3R	45.0 mm	**8019940000**
Male connectors	RS SD25S UNC 4.40 LP2N	80.0 mm	**8005181001**	RS SD25S LP3R	60.0 mm	**8019950000**
Male connectors	RS SD37S UNC 4.40 LP2N	110.0 mm	**8003881001**	RS SD37S LP3R	80.0 mm	**8019960000**
Male connectors	RS SD50S UNC 4.40 LP2N	154.0 mm	**8005161001**	RS SD50S LP3R	100.0 mm	**8019970000**
Female connectors	RS SD9B UNC 4.40 LP2N	45.0 mm	**8003911001**	RS SD9B LP3R	40.0 mm	**8019880000**
Female connectors	RS SD15B UNC 4.40 LP2N	60.0 mm	**8005211001**	RS SD15B LP3R	45.0 mm	**8019890000**
Female connectors	RS SD25B UNC 4.40 LP2N	80.0 mm	**8005191001**	RS SD25B LP3R	60.0 mm	**8019900000**
Female connectors	RS SD37B UNC 4.40 LP2N	110.0 mm	**8003891001**	RS SD37B LP3R	80.0 mm	**8019910000**
Female connectors	RS SD50B UNC 4.40 LP2N	154.0 mm	**8005171001**	RS SD50B LP3R	100.0 mm	**8019920000**

Note

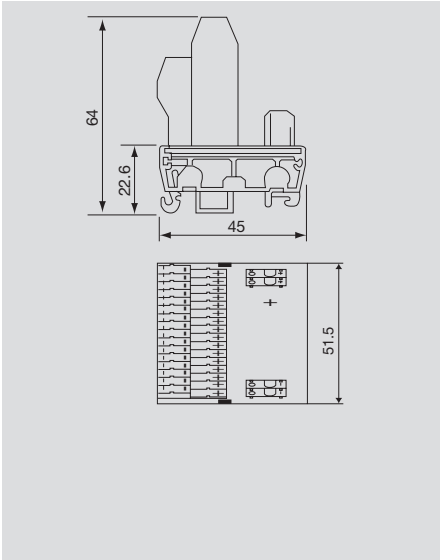
Accessories

Note

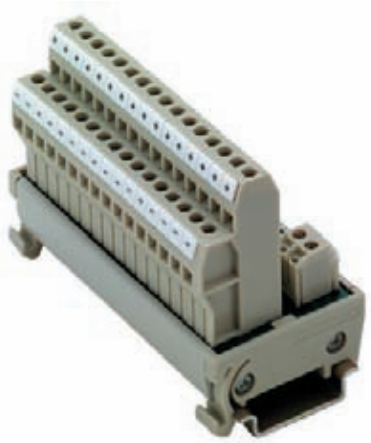
Supply voltage distributor modules

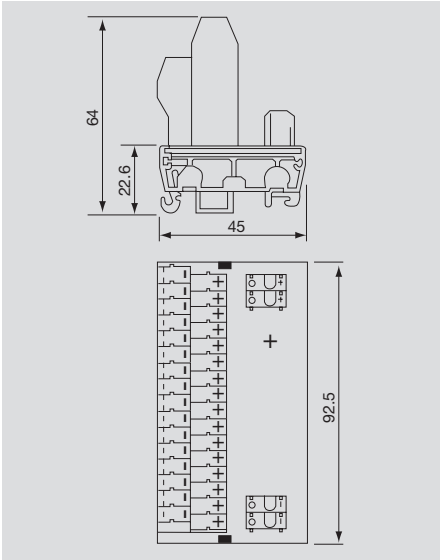
- Distibution module for 2 supply connections to 8 or 16 potential distribution terminals
- 45 mm wide
- Potential distributor designed as 2-tier connection element
- Total current max. 10 A
- For mounting on rail TS 35

RS VERT 8 LPK2



RS VERT 16 LPK2





Technical data

Connection data			
Connection on process side		PCB terminal LPK 2	PCB terminal LPK 2
Stripping length		7.0 mm	7.0 mm
Conversion PCB/plug connector		8-way supply voltage distributor +/- / 2-pole feed	16-way supply voltage distributor +/- / 2-pole feed
Rated data			
Rated voltage		24 V AC/DC	24 V AC/DC
Total current feed, max.		10 A	10 A
Electrical distribution, plus/minus		+/- potential	+/- potential
Storage temperature		-40 °C…+60 °C	-40 °C…+60 °C
Operating temperature		0 °C…+55 °C	0 °C…+55 °C
Housing/Terminal rail		RS 45 section /TS 35	RS 45 section /TS 35
Insulation coordination (EN 50178)			
Surge category/Pollution severity		III /2	III /2
Dimensions			
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	45 x 51.5 x 64	45 x 92.5 x 64
Note			

Ordering data

Type	Qty.	Order No.
RS VERT8 LPK2	1	**8252010000**

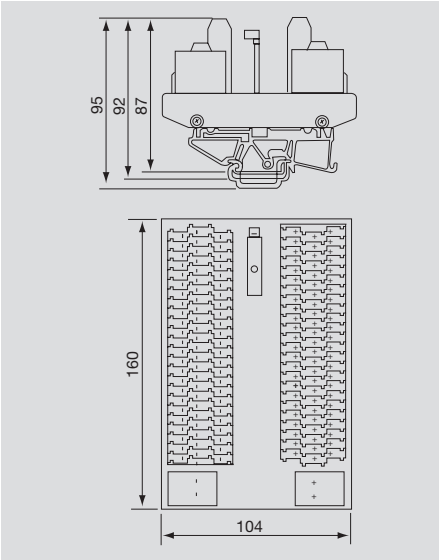
Type	Qty.	Order No.
RS VERT16 LPK2	1	**8234620000**

Note

Supply voltage distributor modules

- Distibution module for 2 supply connections to 72 potential distribution terminals
- Potential distributor designed as 3-tier connection element
- Total current max. 20 A
- For mounting on rail TS 32/35

RS VERT 144 LPK3



Technical data

Connection data		
Connection on process side		PCB terminal LPK 3
Stripping length		7.0 mm
Conversion PCB/plug connector		72-way supply voltage distributor +/- / 2-pole feed
Rated data		
Rated voltage		250 V AC/DC
Total current feed, max.		20 A
Electrical distribution, plus/minus		+/- potential
Storage temperature		-40 °C…+60 °C
Operating temperature		0 °C…+55 °C
Housing/Terminal rail		RS 100 section /TS 35 + TS 32
Insulation coordination (EN 50178)		
Surge category/Pollution severity		III /2
Dimensions		
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5
Length x width x height	mm	104 x 160 x 87
Note		

Ordering data

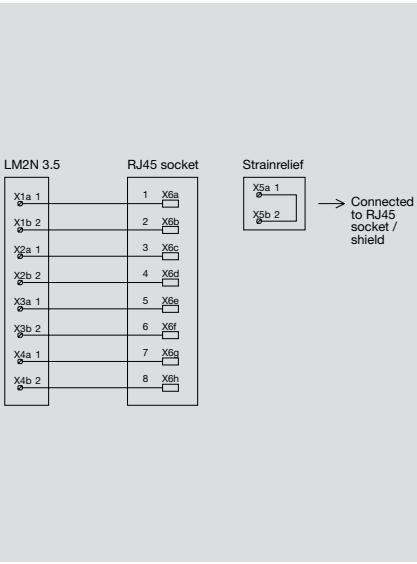
Type	Qty.	Order No.
RS LPK3/144 VERT	1	**8199510000**

Note

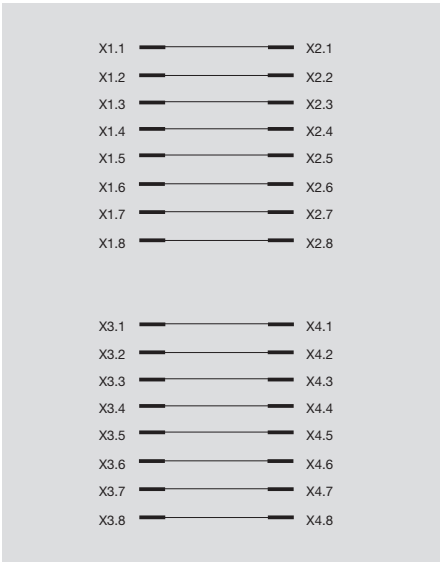
Interface units with RJ45 plug connectors

- Direct coupling of PC and modem in control cabinet
- Connection of typical office equipment
- Data rate Cat5 100 Mbit
- Available as RJ 45/screw connection conversion or as RJ 45 coupling
- For mounting on rail TS 32/35

RS RJ45



RS RJ45 2WAY



Technical data

Connection data			
Connection on process side		screw connection/ RJ45 plug-in connector	2 x RJ45 connector
Connection on control side		screw connection/ RJ45 plug-in connector	2 x RJ45 connector
Design		RJ45 female connector	RJ45 female connector
Conversion PCB/plug connector		1:1	1:1, RJ45 coupling
Rated data			
Rated current per connection		1.5 A	1.5 A
Number of signals		8 shielded	8 shielded
Contact material		phosphor- bronze 6µ AU	phosphor- bronze 6µ AU
Storage temperature		-40 °C…+70 °C	-40 °C…+70 °C
Operating temperature		0 °C…+55 °C	0 °C…+55 °C
Housing		RS 70 section	RS 70 section
Terminal rail		TS 35 + TS 32	TS 35 + TS 32
Insulation coordination (EN 50178)			
Surge category/Pollution severity		II /2	II /2
Dimensions			
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 1.5	
Length x width x height	mm	70 x 30 x 48	70 x 38 x 48
Note		Connect shielding of data line to protective earth at one end	Connect shielding of data line to protective earth at one end

Ordering data

Type	Qty.	Order No.
RS RJ45	10	**8611320000**

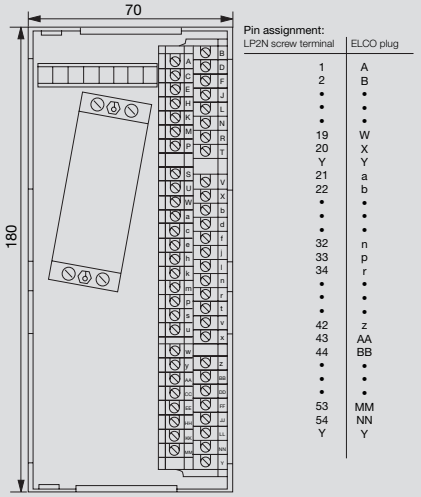
Type	Qty.	Order No.
RS RJ45 2WAY	1	**8555440000**

Note

ELCO interface units

- Conversion from screw connection system to hermaphroditic ELCO plug-in connector
- Cable easily fitted thanks to angled arrangement of the ELCO plug on the left or right side of the module
- High shock and vibration resistance
- Suitable for low currents
- Consecutive numbering
- For mounting on TS32, TS35 x 7.5 and TS 35 x 15

RS ELCO



Technical data

Connection data			
Connection on process side		PCB terminal LP2N	
Design		ELCO connector 56-pole	
Stripping length		7.0 mm	
Connection on control side		ELCO type 8016	
Rated data			
Rated voltage		125 V AC/ 150 V DC	
Rated current per connection		1.5 A	
Test voltage (~eff)		1.5 kV	
Storage temperature		-40 °C…+70 °C	
Operating temperature		0 °C…+55 °C	
Housing		RS 70 section	
Terminal rail		TS 35 + TS 32	
Insulation coordination (EN 50178)			
Surge category/Pollution severity		III /2	
Dimensions		**left**	**right**
Clamping range (rating- / min. / max.)	mm^2	2.5 / 0.5 / 4	2.5 / 0.5 / 4
Length x width x height	mm	70 x 160 x 76	70 x 160 x 76
Note			

Ordering data

	Type
	left
	right
	at left
	at right
Note	

Type	Qty.	Order No.
RS ELCO LH 1..54Y LP2N	1	**1149361001**
RS ELCO RH 1..54Y LP2N	1	**1149461001**
RS-VARELCO-LH-40685C	1	**6253780000**
RS-VARELCO-RH-40685C	1	**6253790000**

PLC system interface

Wiring and circuitry is becoming increasingly complicated as a result of the growing complexity of machines and systems in process, automation and building services control systems. Conventional connections (point-to-point wiring) between PLC controllers and peripheral devices results in high installation and commissioning costs. The Weidmüller range of PLC system interface products provides the user with a quickly and easily installed output level for SIEMENS SIMATIC® S7.

The specific front adapters replace the usual screw terminal technology used on the PLC input/output cards. 40- or 10-pole connectors transfer the PLC signals to the active or passive components via pre-assembled control leads.

The PLC signals are converted either
- in double word mode to a 40-pole ribbon cable connector, or
- in byte mode to 4 ribbon cable connectors each with 10 poles.
- PLC I/O cards usually have two connection systems:
- screw clamp,
- crimp connectors.

In both cases, the signals have to be wired individually with the corresponding connection elements.

Disadvantages of individual wiring:
- High assembly costs
- The risk of wiring mistakes increases with the number of individual wires at one point
- Requires considerable space in the switchboard
- High installation workload
- Time-consuming routing and assembly of connecting leads
- High labelling and documentation workload

System advantages

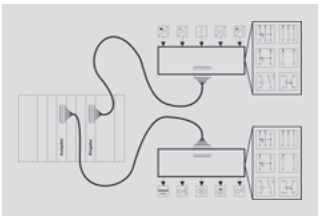
- **Fast**
  - Reduced planning and design times
  - Time-saving installation
  - Less time required for commissioning and troubleshooting
  - Minimised wiring effort on site thanks to plug-type connectors

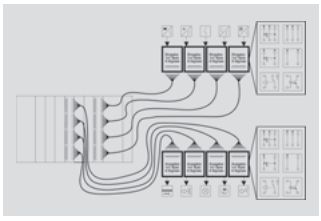
- **Safe**
  - Rules out the risk of wiring mistakes
  - Clear organisation in the switchboard (system cable instead of individual wires)
  - Marking corresponds with PLC
  - Additional individual marking

- **Variable**
  - Multitude of about 40 different I/O components
  - Variable cable lengths
  - Modular design of all components
  - 1 x 4 byte and 4 x 1 byte system designs without signal routing module
  - Functions mixed by byte to an input or output level
  - Expansion possible without difficulty
  - Flexibility due to simple swapping of input/output interfaces

- **Small**
  - Saves space in cable ducts
  - Small module widths
  - No terminal levels

Use of PLC front adapters





SIEMENS SIM S7/300 and SIM S7/400

Front adapters SIM S7/300 and SIM S7/400 are contacted quickly and safely to the input and output modules of Siemens Simatic® S7-300 and S7-400 controllers.
Pre-assembled control leads with 10- or 40-pole socket connectors to IEC 603-1/DIN 41651 connect the PLC input/output groups to the passive and active interface units of the PLC system interface.
Electrical isolation of the power supply is accomplished by means of plug-in cross connection on PLC adapters and input/output modules with the following options:

- 1 x 32 signals
- 2 x 16 signals
- 4 x 8 signals

There are two options for the power feed to PLC I/O cards:

- Direct feed on the front adapter via screw terminals
- Feed via passive/active components by means of pre-assembled control wire (max. 1A/byte)

For the 32-bit PLC components, there is a choice of front adapters with four 10-pole < 4 x 1 byte structure or 40-pole control lead < 1 x 4 byte structure. This enables fast, cost-efficient installation and allows wiring mistakes to be minimised and commissioning times to be reduced.

Pole configuration

	SIM S7/300...KONV		SIM S7/400...KONV	
Front adapter	Socket 4 x 10 poles	1 x 40 poles	4 x 10 poles	1 x 40 poles
Pin 1	X 1.9 B0+	X 1.32 B0+		
Pin 2	X 1.1	X 1.40		
Pin 3	X 1.2	X 1.39	X 1.9 B0+	X 1.32 B0+
Pin 4	X 1.3	X 1.38	X 1.1	X 1.40
Pin 5	X 1.4	X 1.37	X 1.2	X 1.39
Pin 6	X 1.5	X 1.36	X 1.3	X 1.38
Pin 7	X 1.6	X 1.35	X 1.4	X 1.37
Pin 8	X 1.7	X 1.34	X 1.5	X 1.36
Pin 9	X 1.8	X 1.33	X 1.6	X 1.35
Pin 10	X 1.10 B0-	X 1.31 B0-	X 1.7	X 1.34
Pin 11	X 2.9 B1+	X 1.22 B1+	X 1.8	X 1.33
Pin 12	X 2.1	X 1.30		
Pin 13	X 2.2	X 1.29		
Pin 14	X 2.3	X 1.28	X 2.9 B1+	X 1.22 B1+
Pin 15	X 2.4	X 1.27	X 2.1	X 1.30
Pin 16	X 2.5	X 1.26	X 2.2	X 1.29
Pin 17	X 2.6	X 1.25	X 2.3	X 1.28
Pin 18	X 2.7	X 1.24	X 2.4	X 1.27
Pin 19	X 2.8	X 1.23	X 2.5	X 1.26
Pin 20	X 2.10 B1-	X 1.21 B1-	X 2.6	X 1.25
Pin 21	X 3.9 B2+	X 1.12 B2+	X 2.7	X 1.24
Pin 22	X 3.1	X 1.20	X 2.8	X 1.23
Pin 23	X 3.2	X 1.19		
Pin 24	X 3.3	X 1.18		
Pin 25	X 3.4	X 1.17		
Pin 26	X 3.5	X 1.16	X 3.9 B2+	X 1.12 B2+
Pin 27	X 3.6	X 1.15	X 3.1	X 1.20
Pin 28	X 3.7	X 1.14	X 3.2	X 1.19
Pin 29	X 3.8	X 1.13	X 3.3	X 1.18
Pin 30	X 3.10 B2-	X 1.11 B2-	X 3.4	X 1.17
Pin 31	X 4.9 B3+	X 1.2 B3+	X 3.5	X 1.16
Pin 32	X 4.1	X 1.10	X 3.6	X 1.15
Pin 33	X 4.2	X 1.9	X 3.7	X 1.14
Pin 34	X 4.3	X 1.8	X 3.8	X 1.13
Pin 35	X 4.4	X 1.7		
Pin 36	X 4.5	X 1.6		
Pin 37	X 4.6	X 1.5		
Pin 38	X 4.7	X 1.4	X 4.9 B3+	X 1.2 B3+
Pin 39	X 4.8	X 1.3	X 4.1	X 1.10
Pin 40	X 4.10 B3-	X 1.1 B3-	X 4.2	X 1.9
Pin 41			X 4.3	X 1.8
Pin 42			X 4.4	X 1.7
Pin 43			X 4.5	X 1.6
Pin 44			X 4.6	X 1.5
Pin 45			X 4.7	X 1.4
Pin 46			X 4.8	X 1.3
Pin 47				
Pin 48			X 1.10 B0-	X 1.11 B0-
Pin 48			X 2.10 B1-	X 1.21 B1-
Pin 48			X 3.10 B2-	X 1.31 B2-
Pin 48			X 4.10 B3-	X 1.1 B3-
Plug-in cross connectors				
	B0+/B1+		B0+/B1+	
	B1+/B2+		B1+/B2+	
	B2+/B3+		B2+/B3+	
	B0-/B1-			
	B1-/B2-			
	B2-/B3-			

PLC front adapter for SIEMENS S7

- Pre-assembled control cable
- Control cable 1x40- or 4x10 pole in 4 standard lengths
- Separate feeding of the supply voltage via screw connection terminals
- Outstanding cross connectability using ZQV system
- Versatile accessories
- Inexpensive coupling of the interface modules

Front adapter for SIEMENS S7 300 E/A-modules

Digital input:

S7/300 6ES7 321-1BL00-0AA0, 32DI

Digital output :

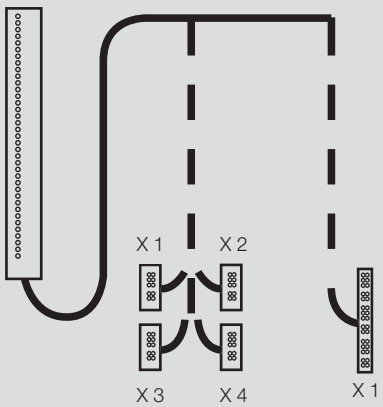
S7/300 6ES7 322-1BL00-0AA0, 32DO

Digital input/output:

S7/300 6ES7 323-1BL00-0AA0, 16DI/16DO

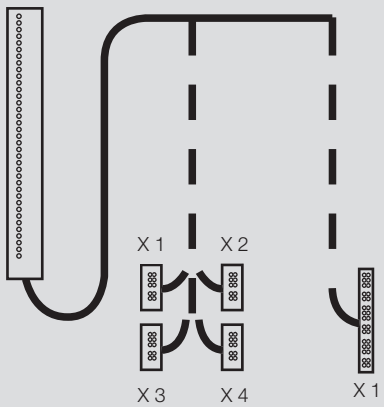
SIEMENS S7/300 1 x 4 Byte

Simatic S7/300 1x4 Byte



SIEMENS S7/300 4 x 1 Byte

Simatic S7/300 4x1Byte



Technical data

Connection data			
Connection on process side		SIEMENS front panel housing	SIEMENS front panel housing
Type of connection		1x40-pole pre-assembled cable with IEC603/1 plug-in connector	4 x 10-pole pre-assembled cable with IEC603/1 plug-in connector
Design		1x40-pole pre-assembled cable with female connector	4x10-pole pre-assembled cable with 10-pole female connector
Configuration of single conductor		7-core control line AWG 26/7	7-core control line AWG 26/7
Connection system, supply voltage/other connections		PCB screw connection terminals	PCB screw connection terminals
Rated data			
Number of signals		32 / 1x4 byte	32 / 4x1 byte
Rated voltage		60 V AC/ 75 V DC	60 V AC/ 75 V DC
Rated current per connection		1 A	1 A
Current-carrying capacity/ cable 10-pole/Line, 40-pole		/26 A/ dT = 20 K	11.5 A/ dT = 20 K /
Voltage supply/Byte discon.		yes	yes
Total current feed, max.		16 A	16 A
Dimensions			
Clamping range (rating- / min. / max.)	mm^2		
Length x width x height	mm	115 x 22 x 32	115 x 22 x 32
Note			

Ordering data

	Type	Qty.	Order No.	Type	Qty.	Order No.
2 m control line	SIM S7/300 FB40 2.0M	1	**8433290200**	SIM S7/300 FB4*10 2.0M	1	**8433310200**
2.5 m control line	SIM S7/300 FB40 2.5M	1	**8433290250**	SIM S7/300 FB4*10 2.5M	1	**8433310250**
3 m control line	SIM S7/300 FB40 3.0M	1	**8433290300**	SIM S7/300 FB4*10 3.0M	1	**8433310300**
5 m control line	SIM S7/300 FB40 5.0M	1	**8433290500**	SIM S7/300 FB4*10 5.0M	1	**8433310500**
Note						

PLC front adapter for SIEMENS S7

- Pre-assembled control cable
- 1x40-pole or 4x10-pole cables in 4 standard lengths
- Separate feeding of supply voltage via screw connection terminals
- Outstanding cross connectability using ZQV system
- Versatile system accessories
- Inexpensive coupling of interface modules

Front adapter for SIEMENS S7 400 I/O modules

Digital input:

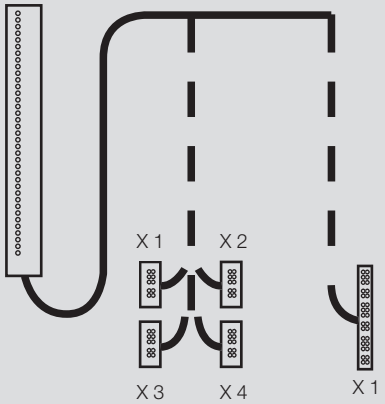
S7/400 6ES7 421-1BL00-0AA0, 32DI

Digital output:

S7/400 6ES7 422-1BL00-0AA0, 32DO

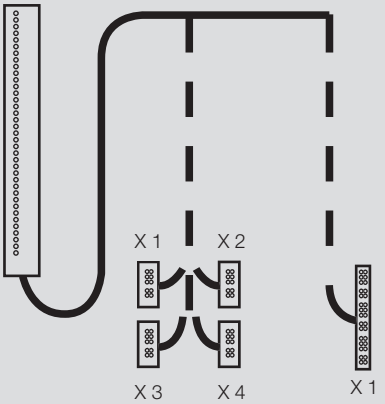
SIEMENS S7/400 1x 4 Byte

Simatic S7/400 1x4Byte



SIEMENS S7/400 4 x 1 Byte

Simatic S7/400 4x1Byte



Technical data

Connection data			
Connection on process side		SIEMENS front panel housing	SIEMENS front panel housing
Type of connection		1x40-pole pre-assembled cable with IEC603/1 plug-in connector	4 x 10-pole pre-assembled cable with IEC603/1 plug-in connector
Design		1x40-pole pre-assembled cable with female connector	4x10-pole pre-assembled cable with 10-pole female connector
Configuration of single conductor		7-core control line AWG 26/7	7-core control line AWG 26/7
Connection system, supply voltage/other connections		PCB screw connection terminals	PCB screw connection terminals
Rated data			
Number of signals		32 / 1x4 byte	32 / 4x1 byte
Rated voltage		60 V AC/ 75 V DC	60 V AC/ 75 V DC
Rated current per connection		1 A	1 A
Current-carrying capacity/ cable 10-pole/Line, 40-pole		/26 A/ dT = 20 K	11.5 A/ dT = 20 K /
Voltage supply/Byte discon.		yes	yes
Total current feed, max.		16 A	16 A
Dimensions			
Clamping range (rating- / min. / max.)	mm^2		
Length x width x height	mm	274 x 19 x 55	274 x 19 x 55
Note			

Ordering data

	Type	Qty.	Order No.	Type	Qty.	Order No.
2 m control line	SIM S7/400 FB40 2.0M	1	**8335900200**	SIM S7/400 FB4*10 2.0M	1	**8335910200**
2.5 m control line	SIM S7/400 FB40 2.5M	1	**8335900250**	SIM S7/400 FB4*10 2.5M	1	**8335910250**
3 m control line	SIM S7/400 FB40 3.0M	1	**8335900300**	SIM S7/400 FB4*10 3.0M	1	**8335910300**
5 m control line	SIM S7/400 FB40 5.0M	1	**8335900500**	SIM S7/400 FB4*10 5.0M	1	**8335910500**
Note						

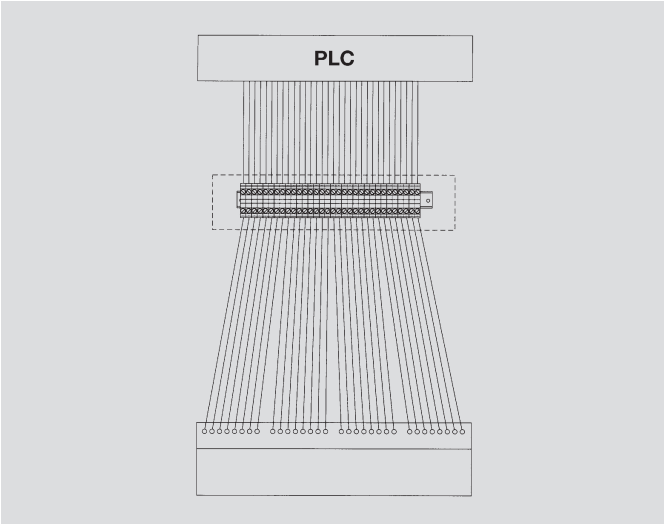
Passive components

The RSF40 or RS F10 passive interface units for 32 or 8 signals allow for efficient connection of peripheral initiators, sensors and actuators to PLC input/output modules. The link between the PLC and the interface module consists of the controller-specific front adapter and the pre-assembled control lead. This wiring version replaces point-to-point wiring, which is prone to mistakes and is costly to install. The necessary auxiliary voltage is provided at the connection units.
An optional status indicator (LED) shows the switching state and the operating voltages.

Features

- Choice of screw or tension clamp terminal
- RS45 modules with extremely narrow width of 45 mm
- 32x module via plug-in jumpers in sensor groups (1 x 32, 2 x 16 or 4 x 8 signals)
- Signals grouped by byte
- Test point on the board through connection element
- Clearly organised terminal marking
- Additional labelling panel for group identification
- Clips to TS35 DIN rail (RS 45 profile) in 45 mm width and TS 32/35 DIN rail in 87 mm width

Individual wiring



Input/output module RS 45 profile designed for

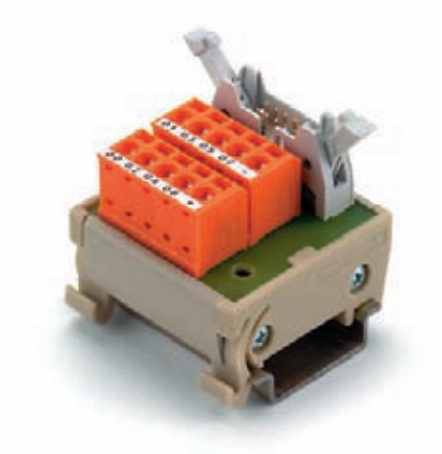
- 1:1 signal transfer of 32 or 8 signals to PLC input/output modules,
- connection of RS F40 LPK2 and RS F10 LPK2 two-wire and three-wire sensors/initiators to PLC input/output modules.

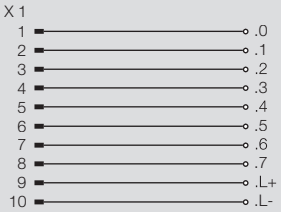
Input/Output in single-conductor system

- Compact design
- Tension clamp connection system
- Clear connection designation
- Clips to TS 35

RS F10 I/O8 LMZF

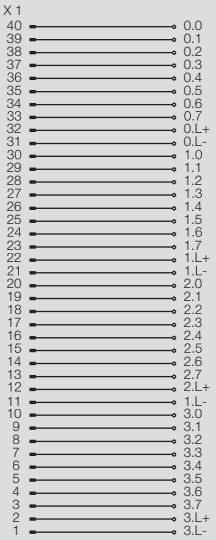
I/O module





RS F40 I/O32 LMZF

I/O module



Technical data

Connection data			
Connection on process side		PCB terminal LMZF	PCB terminal LMZF
Stripping length		7.0 mm	7.0 mm
Connection system, supply voltage/other connections		Tension clamp connection terminal	Tension clamp connection terminal
Coupling on control side, 8- way module		10-pole FB-socket IEC 603-1	
Coupling on control side, 32- way module			40-pole FB-socket IEC 603-1
Rated data			
Number of signals		8 / 1x1 byte	32 / 1x4 byte
Rated voltage		60 V AC/ 75 V DC	60 V AC/ 75 V DC
Rated current per connection		1 A	1 A
Common potential at terminal/Voltage supply/Byte discon.		/	/no
Operating temperature/Storage temperature		0 °C…+55 °C /-40 °C…+70 °C	0 °C…+55 °C /-40 °C…+70 °C
Surge category/Pollution severity		II /2	II /2
Terminal rail		TS 35	TS 35
Dimensions			
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	45 x 43 x 54	45 x 125 x 54
Note			

Ordering data

Type	Qty.	Order No.
RS F10 I/O8 LMZF	1	**8428870000**

Type	Qty.	Order No.
RS F40 I/O32 LMZF	1	**8428880000**

Note

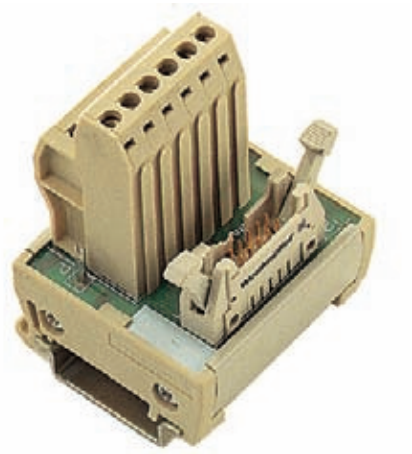
PLC input/output module passive

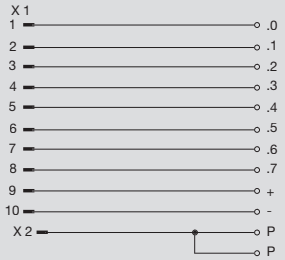
Input/Output in single-conductor system

- Compact design
- Screw connection system
- Clear connection designation
- Clips to TS 35

RS F10 LPK 2H/12

I/O module





RS F40 LPK 2H/42

I/O module

Technical data

Connection data			
Connection on process side		PCB terminal LPK 2 H	PCB terminal LPK 2 H
Stripping length		7.0 mm	7.0 mm
Connection system, supply voltage/other connections		Screw connection	Screw connection
Coupling on control side, 8- way module		10-pole FB-socket IEC 603-1	
Coupling on control side, 32- way module			40-pole FB-socket IEC 603-1
Rated data			
Number of signals		8 / 1x1 byte	32 / 1x4 byte
Rated voltage		60 V AC/ 75 V DC	60 V AC/ 75 V DC
Rated current per connection		1 A	1 A
Common potential at terminal/Voltage supply/Byte discon.		/-	/no
Operating temperature/Storage temperature		0 °C...+55 °C /-40 °C...+70 °C	0 °C...+55 °C /-40 °C...+70 °C
Surge category/Pollution severity		II /2	II /2
Terminal rail		TS 35	TS 35
Dimensions			
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	45 x 49 x 65.5	45 x 121 x 65.5
Note			

Ordering data

Type	Qty.	Order No.
RS F10 LPK 2H/12	1	**8248050000**

Type	Qty.	Order No.
RS F40 LPK 2H/42	1	**8248060000**

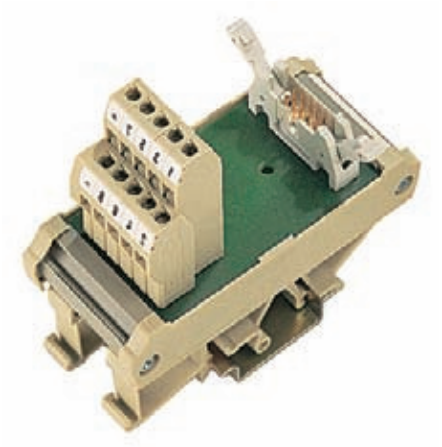
Note

Input/Output in single-conductor system

- Screw connection system
- Clear connection designation
- Optional status indicator
- Additional labelling panel for group designation
- Clips to TS 32/35

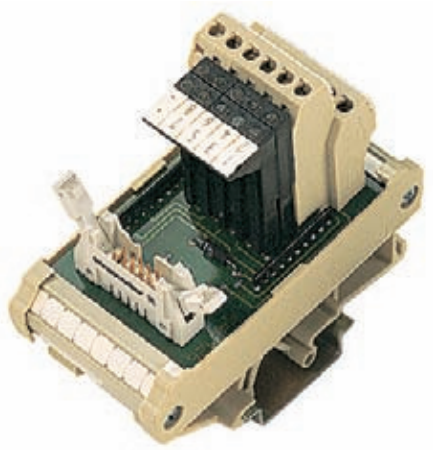
RS F10 I/O8 LPK2

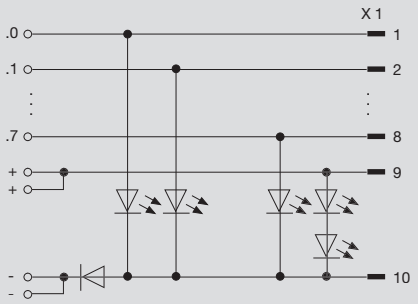
I/O module



RS F10 I/O8 LD LPK2

I/O module





Technical data

Connection data			
Connection on process side		PCB terminal LPK 2 H	PCB terminal LPK 2 H
Stripping length		7.0 mm	7.0 mm
Connection system, supply voltage/other connections		Screw connection	Screw connection
Coupling on control side, 8- way module		10-pole FB-socket IEC 603-1	10-pole FB-socket IEC 603-1
Rated data			
Number of signals		8 / 1x1 byte	8 / 1x1 byte
Rated voltage		60 V AC/ 75 V DC	24 V DC ±20 %
Rated current per connection		1 A	1 A
LED current			< 5 mA
Operating temperature/Storage temperature		0 °C…+55 °C /-40 °C…+70 °C	0 °C…+55 °C /-40 °C…+70 °C
Surge category/Pollution severity		II /2	II /2
Terminal rail		TS 35 + TS 32	TS 35 + TS 32
Dimensions			
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 x 40 x 80	87 x 40 x 80
Note			

Ordering data

Type	Qty.	Order No.
RS F10 I/O8 LPK2	1	**8224290000**

Type	Qty.	Order No.
RS F10 I/O8 LD LPK2	1	**8224260000**

Note

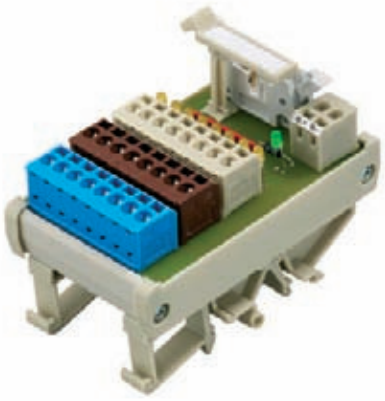
PLC input/output module passive

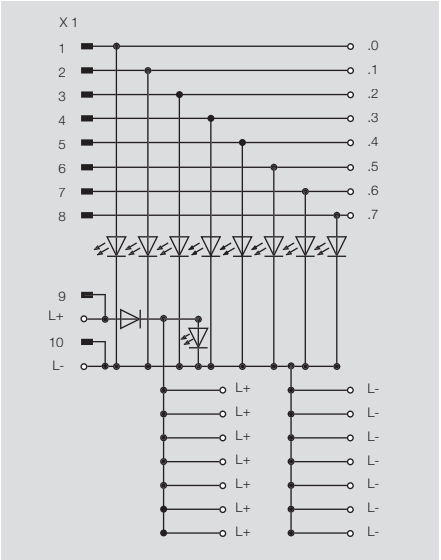
Input module in 3-conductor system

- Tension clamp connection system
- Connection of 3-wire initiators
- Optional status indicator
- Additional labelling panel for group designation
- Clips to TS 32/35

RS F10 INIT8 LD LMZF

Input module





Technical data

Connection data		
Connection on process side		PCB terminal LMZF
Stripping length		7.0 mm
Connection system, supply voltage/other connections		Tension clamp connection terminal
Coupling on control side, 8- way module		10-pole FB-socket IEC 603-1
Rated data		
Number of signals		8 / 1x1 byte
Rated voltage		24 V DC ±20 %
Rated current per connection		1 A
LED current		< 5 mA
Common potential at terminal/Voltage supply/Byte discon.		+/- potential /-
Operating temperature/Storage temperature		0 °C...+55 °C /-40 °C...+70 °C
Surge category/Pollution severity		II /2
Terminal rail		TS 35 + TS 32
Dimensions		
Clamping range (rating- / min. / max.)	mm^2	1.5 / 0.5 / 2.5
Length x width x height	mm	87 x 54 x 73
Note		

Ordering data

Type	Qty.	Order No.
RS F10 INIT8 LD LMZF	1	**8428890000**

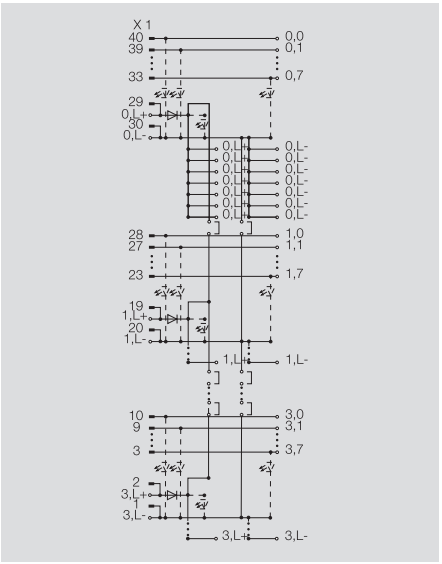
Note

Input module in 3-conductor system

- Tension clamp connection system
- Connection of 3-wire initiators
- Wire jumpers on the 32-way modules enable group-type splitting of the initiators into 1x32, 2x16 or 4x8 signals
- Clear byte-by-byte grouping of signals
- Optional status indicator
- Additional labelling panel for group designation
- Clips to TS 32/35

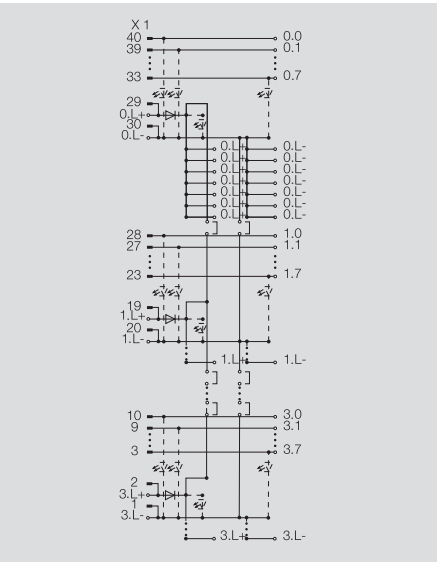
RS F40 INIT32 LMZF

Input module



RS F40 INIT32 LD LMZF

Input module



Technical data

Connection data			
Connection on process side		PCB terminal LMZF	PCB terminal LMZF
Stripping length		7.0 mm	7.0 mm
Connection system, supply voltage/other connections		Tension clamp connection terminal	Tension clamp connection terminal
Coupling on control side, 32- way module		40-pole FB-socket IEC 603-1	40-pole FB-socket IEC 603-1
Rated data			
Number of signals		32 / 1x4 byte	32 / 1x4 byte
Rated voltage		60 V AC/ 75 V DC	24 V DC ±20 %
Rated current per connection		1 A	1 A
LED current			< 5 mA
Common potential at terminal/Voltage supply/Byte discon.		+/- potential /yes	+/- potential /yes
Operating temperature/Storage temperature		0 °C...+55 °C /-40 °C...+70 °C	0 °C...+55 °C /-40 °C...+70 °C
Surge category/Pollution severity		II /2	II /2
Terminal rail		TS 35 + TS 32	TS 35 + TS 32
Dimensions			
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 x 185 x 73	87 x 185 x 73
Note			

Ordering data

Type	Qty.	Order No.
RS F40 INIT32 LMZF	1	**8430980000**

Type	Qty.	Order No.
RS F40 INIT32 LD LMZF	1	**8428900000**

Note