Interface Units

Weidmuller 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 standardized plug connectors and point-to-point wiring or other connection systems.

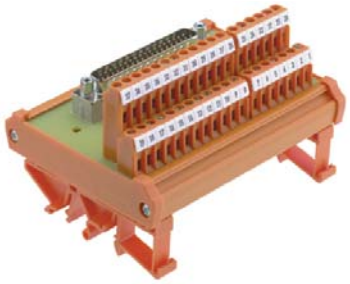
Interface units consist of the following individual components:
- Extruded profile for inserting the PCB
- End plates for fitting on the mounting rail
- Clip-on feet for locking on standardized mounting rails TS 32 and TS 35
- PCB with connecting and indicating elements, DIN plug connectors and ample 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 41651
- 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

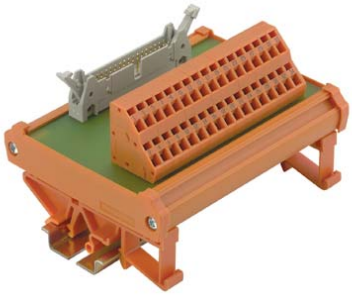
Interface units let users implement pioneering concepts in switchboard design with potential for rationalization. Customized wiring concepts can also be solved rationally through the use of special interface units.

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 labor 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.

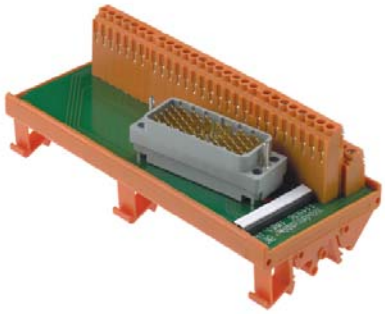
When used in combination with a status indicator (LED), this guarantees rapid information about the switching state of incoming and outgoing signals.

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

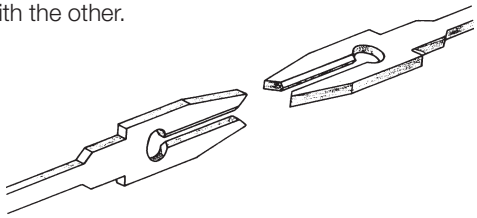
Passive interface unit for 9 … 50 signals for adapting pre-assembled leads with SUB-D plug to IEC 807-2/DIN 41652 to screw or tension clamp connection systems.

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 ground terminal for shielded leads as an optional feature.
An additional test point simplifies testing and measuring during initial setup and when servicing the system.

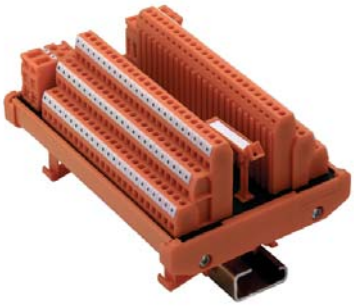
RS ELCO interface units for pre-assembled leads with hermaphrodite plug connector system



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 organized 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 ground. The interface modules can be fitted on TS 32/35 mounting rails.

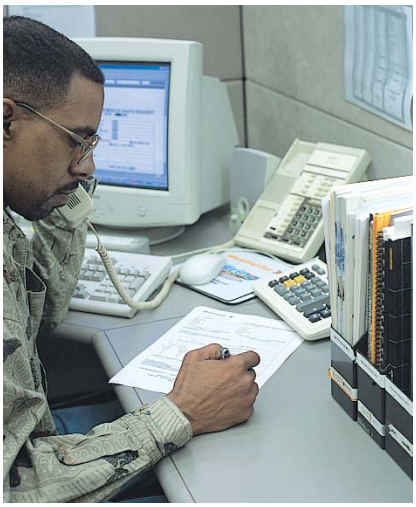
Weidmuller Custom Solutions

It's a Matter of Getting what you need

Our design team works closely with you each step of the way.

Custom Design and Engineering – Designed for Your Application

Great ideas for new products and new applications often push companies into uncharted territory, where existing interface products fall short of their design requirements.



Our goal is to provide you with the most responsive service possible.

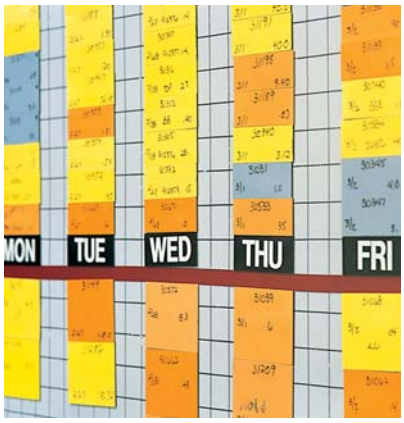
Weidmuller has an unparalleled record of innovation in interface products extending back over 50 years – and we're happy to make this expertise available to you through our custom engineering services, which include both the design and the manufacture of tailor-made interface products. Whether it's PCB terminal blocks and connectors, DIN-rail terminal blocks, controller front panel adapters or controller interface products, we will work with you to create a custom solution that meets your needs – exactly.

And because our success at Weidmuller rests on long-term relationships, we welcome opportunities to partner with you to create the products you need.

Weidmuller is your best source for PCB terminal blocks and connectors, DIN-rail terminal blocks, controller front panel adapters and interface products that meet your application needs precisely. We work with you to manage the process carefully to ensure timely delivery and complete satisfaction.

With Weidmuller's expertise in custom solutions, there is no need to compromise.

Final design drawings are developed for review and approval.



We work with you to pinpoint schedule and delivery requirements.

1) Getting it Right from the Start

Once an application is identified, we mobilize our design team immediately. We work with you to pinpoint your design specifications, delivery and scheduling requirements.

As part of this effort, we establish an open line of communication between you and a designated point person for your project. Expert technical support is also available all the way through the project to address issues that arise during the design and manufacturing process.

2) Building Relationships Before Building the Product

At Weidmuller, we place a premium on building long-term customer relationships. We will explain our custom design and engineering process in detail, and, as needed, partner with you to meet your needs for custom products.

3) Offering Alternatives

One of the advantages of working with Weidmuller is the depth of our product design and manufacturing experience. You can count on us to carefully review the special requirements for your application and, if necessary, present several approaches and to compare the advantages of each one.

4) Developing Final Drawings and Models

At Weidmuller, we want to make absolutely sure that a custom product design meets your requirements. Using the latest CAD technology, we create final design drawings and stereolithographic models, as appropriate.

5) Establishing Time Frames

Upon your approval, we begin the tooling process, schedule production, and set delivery dates based on the needs of your application. Our Fastrack Custom Solutions can accelerate the custom design and engineering process even further. In many cases, we will produce conceptual drawings for you within two days of project agreement.

OUR FASTRACK CUSTOM SOLUTIONS ARE THE RIGHT TRACK FOR YOUR PRODUCT DEVELOPMENT NEEDS WHEN:

- **Standard products won't meet your unique application need**
- **You need a design partner to offer innovative alternatives and solutions**
- **You need a truly innovative product to put you ahead of the competition**
- **Market pressures dictate a fast turnaround on a custom product design**

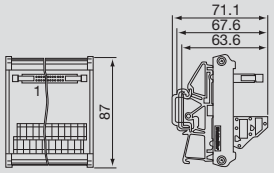
Fastrack CUSTOM SOLUTIONS

Interface Units IEC 603-1 - DIN 41651 (Ribbon Connector)

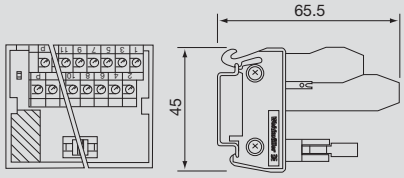
Interface units IEC 603-1 DIN 41651 (Ribbon connector)

- 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

Connection data			
Connection on process side		PCB terminal LM2NZF / Tension clamp	PCB terminal LPK 2 H / Screw connection
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
Ambient temperature (operational)		0 °C...+55 °C	0 °C...+55 °C
Terminal rail			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 64.0	45.0 x — x 65.5
Note			

Ordering data

	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

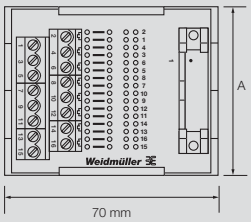
Note

For ribbon cable connections according to UL 508A recognition or with accessory holes

- With mounting foot for TS 32, TS 35 x 7.5 and TS 35 x 15 rails
- Male connector block with interlock for female connector block with strain relief according to DIN 41 651/Parts 1 and 2
- Available with screw connection

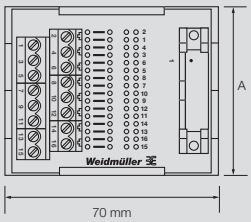
RI-IDC

Cable interface units for ribbon cables
Screw connection
Male Standard



RI-IDC

Cable interface units for ribbon cables
Screw connection
Male with accessory holes



Technical data

Connection data			
- Process side		Screw connection	Screw connection
- Type		LP2N terminal	LP2N terminal
- Control side		Plug connection	Plug connection
- Type		Ribbon connector	Ribbon connector
Rated data			
Rated voltage		125 V	125 V
Rated current per contact		1 A	1 A
Operating temperature		-25°C…+50°C	-25°C…+50°C
Storage temperature		-40°C…+70°C	-40°C…+70°C
Terminal wire size		**AWG 26…12**	**AWG 26…12**
Insulation stripping length	mm (in.)	7 (.28)	7 (.28)
Dimensions			
Overall width	mm (in.)	See table, dim. A	See table, dim. A

Ordering data

dimensions (mm/in.)

Poles	Dim. A	Dim. B	Dim. C	Dim. D
10	39.88 (1.57)	50 (1.97)	49 (1.93)	40 (1.57)
14	49.78 (1.96)	50 (1.97)	56 (2.20)	45 (1.77)
16	55.12 (2.17)	55 (2.17)	64 (2.52)	50 (1.97)
20	64.77 (2.55)	65 (2.56)	71 (2.80)	50 (1.97)
26	84.84 (3.34)	80 (3.15)	86 (3.39)	55 (2.17)
30	94.74 (3.73)			
34	104.65 (4.12)	110 (4.33)	106 (4.17)	70 (2.76)
40	120.14 (4.73)	115 (4.53)	121 (4.76)	80 (3.15)
50	142.49 (5.60)	145 (5.71)	151 (5.94)	95 (3.74)
60	175.01 (6.89)	180 (7.09)	180 (7.09)	115 (4.53)
64	181.61 (7.15)	180 (7.09)	186 (7.32)	120 (4.72)

On TS 35 x 7.5

Type	Order No.
UL 508A—Male standard	
RI-IDC 10	**915911**
RI-IDC 14	**915912**
RI-IDC 16	**915913**
RI-IDC 20	**915914**
RI-IDC 26	**915915**
RI-IDC 30	**915916**
RI-IDC 34	**915917**
RI-IDC 40	**915918**
RI-IDC 50	**915919**
RI-IDC 60	**915920**
RI-IDC 64	**915921**

Type	Order No.
Male w/ accessory holes	
RI-IDC 10	**914890**
RI-IDC 14	**914891**
RI-IDC 16	**914892**
RI-IDC 20	**914893**
RI-IDC 26	**914894**
RI-IDC 30	**914895**
RI-IDC 34	**914896**
RI-IDC 40	**914897**
RI-IDC 50	**914898**
RI-IDC 60	**914899**
RI-IDC 64	**914900**

Accessories

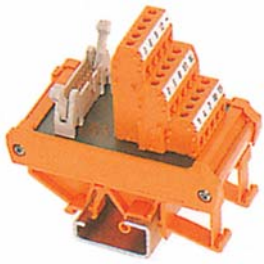
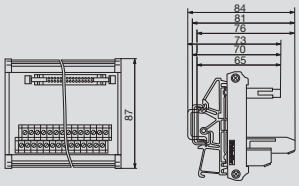
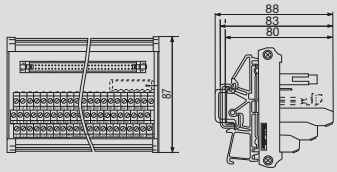
		Type	Order No.
Mounting rail		TS 32	**0122800000**
		TS 35 x 7.5	**0383400000**
		TS 35 x 15	**0498000000**
End bracket	for TS 32	EWK 2	**0199360000**
	for TS 35	EW 35	**0383560000**
Terminal wire marking		DEK 5	

Type	Order No.
TS 32	**0122800000**
TS 35 x 7.5	**0383400000**
TS 35 x 15	**0498000000**
EWK 2	**0199360000**
EW 35	**0383560000**
DEK 5	

Interface Units IEC 603-1 - DIN 41651 (Ribbon Connector)

Interface units IEC 603-1 DIN 41651 (Ribbon connector)

- Pin connector with locking feature to IEC 603-1
- 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
Ambient temperature (operational)		0 °C...+55 °C	0 °C...+55 °C
Terminal rail		TS 32, 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	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

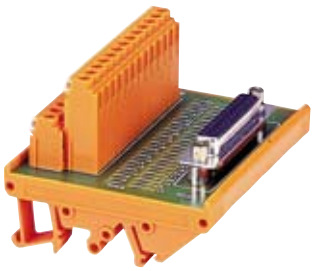
Note

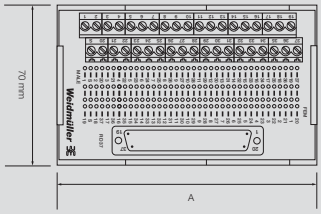
For D-subminiature plug-in connectors according to UL 508A recognition

- With mounting foot for TS 32, TS 35 x 7.5 and TS 35 x 15 rails
- Male and female connectors with screw/locking system UNC 4/40
- Available with screw connection

RD

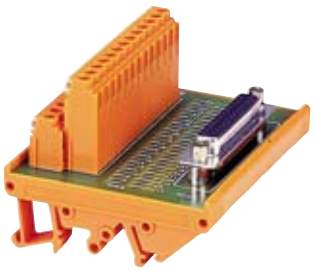
Male connector
Standard

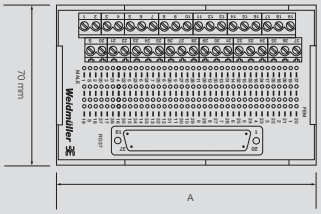




RD

Female connector
Standard





Technical data

Connection data			
- Process side		Screw connection	Screw connection
- Type		LP2N terminal	LP2N terminal
- Control side		Plug connection	Plug connection
- Type		Sub-D	Sub-D
Rated data			
Rated voltage		150 V	150 V
Rated current per contact		1.5 A	1.5 A
Operating temperature		-25°C…+50°C	-25°C…+50°C
Storage temperature		-40°C…+70°C	-40°C…+70°C
Terminal wire size		**AWG 26…12**	**AWG 26…12**
Insulation stripping length	mm (in.)	7 (.28)	7 (.28)
Dimensions			
Overall width	mm (in.)	See table, dim. A	See table, dim. A

Ordering data

dimensions (mm/in.)

Poles	Cable Connector Retainer*	Dim. A
9	Screw	39.88 (1.57)
9	Jackscrew	39.88 (1.57)
15	Screw	55.12 (2.17)
15	Jackscrew	55.12 (2.17)
25	Screw	85.09 (3.35)
25	Jackscrew	85.09 (3.35)
37	Screw	116.84 (4.60)
37	Jackscrew	116.84 (4.60)
50	Screw	149.35 (5.88)
50	Jackscrew	149.35 (5.88)
On TS 35 x 7.5		

Type	Order No.
UL 508A—Male standard	
RD-9	**915933**
RD-9JS	**915935**
RD-15	**915958**
RD-15JS	**915941**
RD-25	**915947**
RD-25JS	**915949**
RD-37	**915954**
RD-37JS	**915956**
RD-50	**919658**
RD-50JS	**919656**

Type	Order No.
UL 508A—Female standard	
RD-9	**915934**
RD-9JS	**915936**
RD-15	**915940**
RD-15JS	**915942**
RD-25	**915948**
RD-25JS	**915953**
RD-37	**915955**
RD-37JS	**915957**
RD-50	**919657**
RD-50JS	**919655**

Accessories

		Type	Order No.	Type	Order No.
Mounting rail		TS 35 x 7.5	**0383400000**	TS 35 x 7.5	**0383400000**
		TS 35 x 15	**0498000000**	TS 35 x 15	**0498000000**
End bracket	for TS 32	EWK 2	**0199360000**	EWK 2	**0199360000**
	for TS 35	EW 35	**0383560000**	EW 35	**0383560000**
Terminal wire marking		DEK 5		DEK 5	

Note :

*Cable connector retainer has either a jackscrew receptacle for a thumb screw or has a mounted screw in the module cable connector.

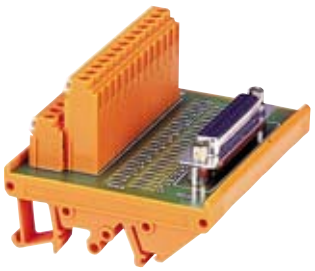
Interface Units IEC 807-2 - DIN 41652 (Sub-D Connector)

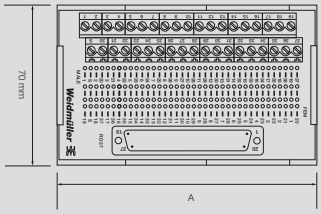
For D-subminiature plug-in connectors with accessory holes

- With mounting foot for TS 32, TS 35 x 7.5 and TS 35 x 15 rails
- Male and female connectors with screw/locking system UNC 4/40
- Available with screw connection

RD

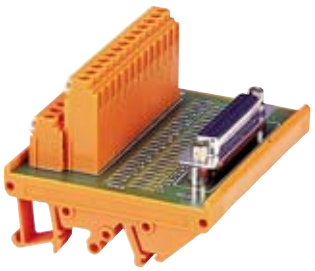
Male connector with accessory holes†

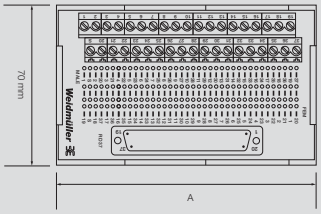




RD

Female connector with accessory holes†





Technical data

Connection data			
- Process side		Screw connection	Screw connection
- Type		LP2N terminal	LP2N terminal
- Control side		Plug connection	Plug connection
- Type		Sub-D	Sub-D
Rated data			
Rated voltage		150 V	150 V
Rated current per contact		1.5 A	1.5 A
Operating temperature		-25°C…+50°C	-25°C…+50°C
Storage temperature		-40°C…+70°C	-40°C…+70°C
Terminal wire size		**AWG 26…12**	**AWG 26…12**
Insulation stripping length	mm (in.)	7 (.28)	7 (.28)
Dimensions			
Overall width	mm (in.)	See table, dim. A	See table, dim. A

Ordering data

dimensions (mm/in.)

Poles	Cable Connector Retainer*	Dim. A
9	Screw	39.88 (1.57)
9	Jackscrew	39.88 (1.57)
15	Screw	55.12 (2.17)
15	Jackscrew	55.12 (2.17)
25	Screw	85.09 (3.35)
25	Jackscrew	85.09 (3.35)
37	Screw	116.84 (4.60)
37	Jackscrew	116.84 (4.60)
50	Screw	149.35 (5.88)
50	Jackscrew	149.35 (5.88)

On TS 35 x 7.5

Type	Order No.
Male w/ accessory holes	
RD-9	**912385**
RD-9JS	**910638**
RD-15	**912395**
RD-15JS	**910644**
RD-25	**912405**
RD-25JS	**910648**
RD-37	**913155**
RD-37JS	**910642**
RD-50	**911883**
RD-50JS	**911884**

Type	Order No.
Female w/ accessory holes	
RD-9	**912380**
RD-9JS	**910641**
RD-15	**912390**
RD-15JS	**912393**
RD-25	**912400**
RD-25JS	**910645**
RD-37	**910075**
RD-37JS	**910640**
RD-50	**911885**
RD-50JS	**911886**

Accessories

Type	Order No.
Mounting rail	
TS 35 x 7.5	**0383400000**
TS 35 x 15	**0498000000**
End bracket	
for TS 32	**0199360000**
for TS 35	**0383560000**
Terminal wire marking	
DEK 5	

Type	Order No.
Mounting rail	
TS 35 x 7.5	**0383400000**
TS 35 x 15	**0498000000**
End bracket	
EWK 2	**0199360000**
EW 35	**0383560000**
Terminal wire marking	
DEK 5	

Note :

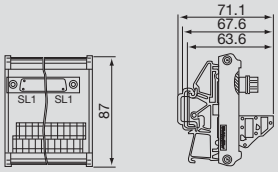
*Cable connector retainer has either a jackscrew receptacle for a thumb screw or has a mounted screw in the module cable connector.

†Designates plug (S male) or socket (B female) connector on the interface module.

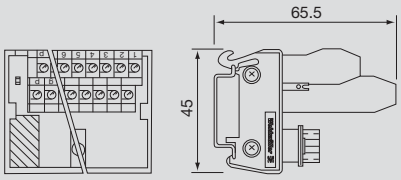
Interface units IEC 807-2 DIN 41652 (Sub-D connector)

- 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 / Tension clamp	PCB terminal LPK 2 H / Screw connection
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**
Female connectors	50-pole				RS SD50B UNC LPK2	154.0 mm	**8155640000**

Note

Accessories

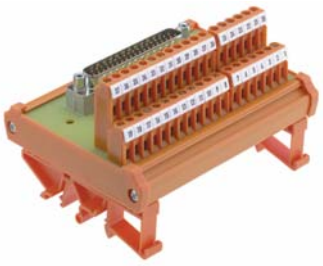
Note

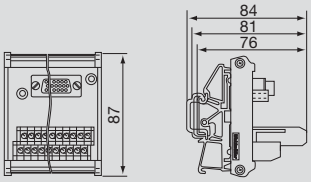
Interface Units IEC 807-2 - DIN 41652 (Sub-D Connector)

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

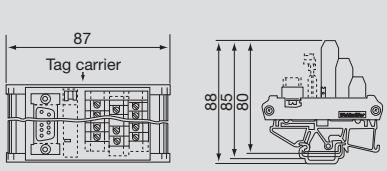
- Pin and socket connector with screw locking system UNC 4/40
- PCB connection element with screw connection
- Clip-on foot for mounting on TS32, TS35 x 7.5 and TS35 x 15

RSSD S/ SUB-D





RSSD S/ SUB-D



Technical data

		RSSD S/ SUB-D	RSSD S/ SUB-D
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 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		0.50 Nm	0.50 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 32, 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	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	9-pole	RS SD9S UNC 4.40 LP2N	45.0 mm	**8003901001**	RS SD9S LP3R	40.0 mm	**8019930000**
Male connectors	15-pole	RS SD15S UNC 4.40	60.0 mm	**8005201001**	RS SD15S LP3R	45.0 mm	**8019940000**
Male connectors	25-pole	RS SD25S UNC 4.40 LP2N	80.0 mm	**8005181001**	RS SD25S LP3R	60.0 mm	**8019950000**
Male connectors	37-pole	RS SD37S UNC 4.40 LP2N	110.0 mm	**8003881001**	RS SD37S LP3R	80.0 mm	**8019960000**
Male connectors	50-pole	RS SD50S UNC 4.40 LP2N	154.0 mm	**8005161001**	RS SD50S LP3R	100.0 mm	**8019970000**
Female connectors	9-pole	RS SD9B UNC 4.40 LP2N	45.0 mm	**8003911001**	RS SD9B LP3R	40.0 mm	**8019880000**
Female connectors	15-pole	RS SD15B UNC 4.40 LP2N	60.0 mm	**8005211001**	RS SD15B LP3R	45.0 mm	**8019890000**
Female connectors	25-pole	RS SD25B UNC 4.40 LP2N	80.0 mm	**8005191001**	RS SD25B LP3R	60.0 mm	**8019900000**
Female connectors	37-pole	RS SD37B UNC 4.40 LP2N	110.0 mm	**8003891001**	RS SD37B LP3R	80.0 mm	**8019910000**
Female connectors	50-pole	RS SD50B UNC 4.40 LP2N	154.0 mm	**8005171001**	RS SD50B LP3R	100.0 mm	**8019920000**

Note

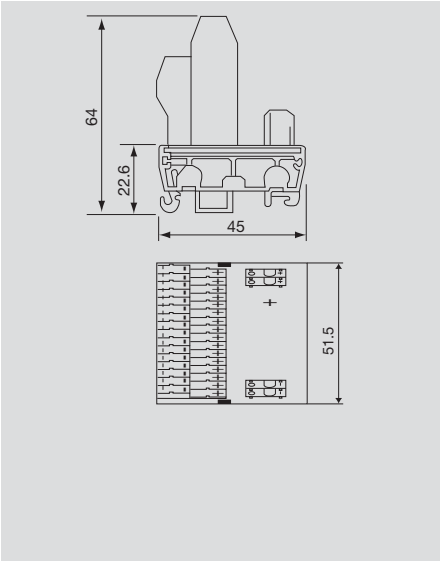
Accessories

Note

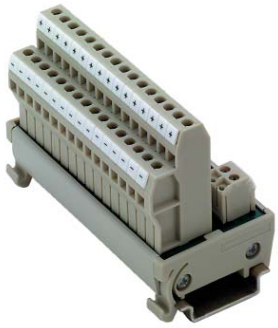
Supply voltage distributor modules

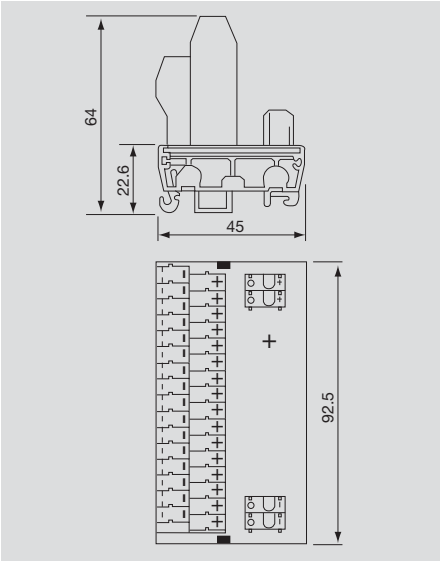
- Distibution module for 2 supply connections to 8 or 16 potential distribution terminals
- 45 mm wide
- Potential distributor designed as two level connection element
- Total current max. 10 A
- For mounting on rail TS35 x 7.5 and TS35 x 15

RS VERT 8 LPK2



RS VERT 16 LPK2





Technical data

		RS VERT 8 LPK2	RS VERT 16 LPK2
Connection data			
Connection on process side		PCB terminal LPK 2/ Screw connection	PCB terminal LPK 2 / Screw connection
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
Ambient temperature (operational)		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

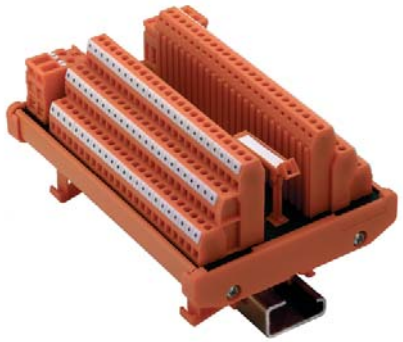
Type	Qty.	Order No.
RS VERT16 LPK2	1	8234620000

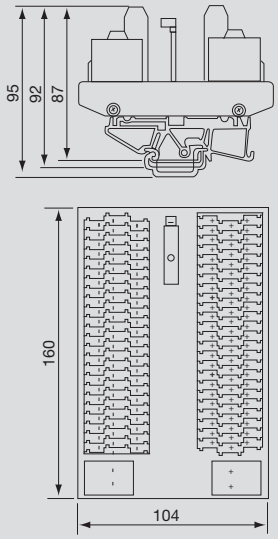
Note

Supply voltage distributor modules

- Distibution module for 2 supply connections to 72 potential distribution terminals
- Potential distributor designed as three level 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 / Screw connection
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
Ambient temperature (operational)		0 °C…+55 °C
Housing/Terminal rail		RS 100 section /TS 32, TS 35
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

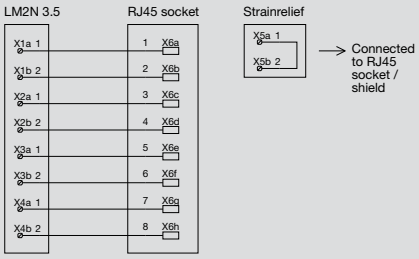
Type	Qty.	Order No.
RS LPK3/144 VERT	1	**8199510000**

Note

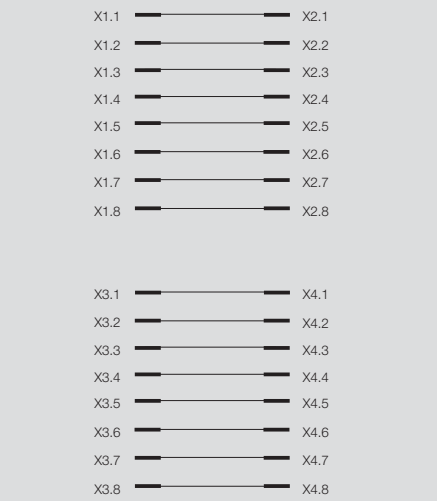
Interface units with RJ45 plug connectors

- 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
Ambient temperature (operational)		0 °C…+55 °C	0 °C…+55 °C
Housing		RS 70 section	RS 70 section
Terminal rail		TS 32, TS 35	TS 32, TS 35
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 ground at one end	Connect shielding of data line to protective ground at one end

Ordering data

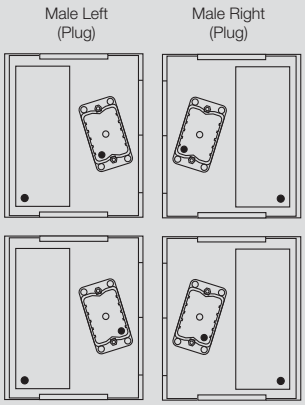
Type	Qty.	Order No.
RS RJ45	10	**8611320000**
RJ 4A		**912171**
RJ 6A		**911915**
RJ 8A		**911916**

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

Note

ELCO Interface Unit

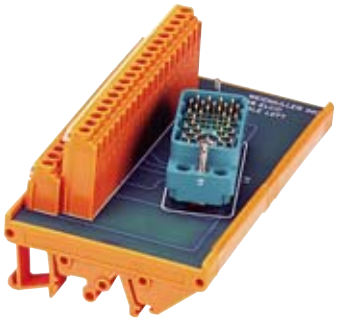
Cable interface units designed according to UL 508A recognition

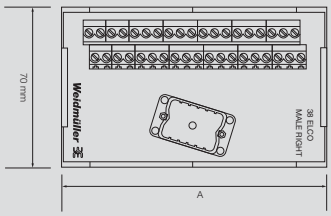


• = Terminal "A" for ELCO connector and field wiring terminal block.

ELCO

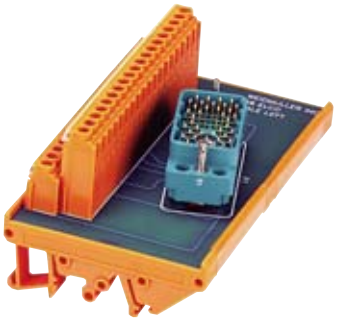
Male† connector
Standard

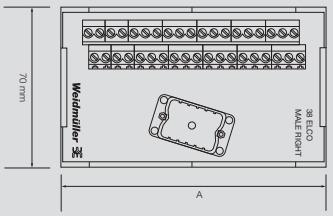




ELCO

Female† connector
Standard





Technical data

Connection data		
- Process side	Screw connection	Screw connection
- Type	LP2N terminal	LP2N terminal
- Control side	Plug connection	Plug connection
- Type	ELCO	ELCO

Rated data		
Rated voltage	125 V	125 V
Rated current per contact	3.5 A	3.5 A
Operating temperature	-25°C…+50°C	-25°C…+50°C
Storage temperature	-40°C…+70°C	-40°C…+70°C

Terminal wire size			
Insulation stripping length	mm (in.)	AWG 26…12 7 (.28)	AWG 26…12 7 (.28)

Dimensions			
Overall width	mm (in.)	See table, dim. A	See table, dim. A

Ordering data

dimensions (mm/in.)				Type	Order No.	Type	Order No.
Poles	Cable Connector Orientation*	Connector Retainer	Dim. A	Male		Female	
38	Left	Center Screw	119.63 (4.71)	RS-ELCO 38 M/L	**912126**	RS-ELCO 38 F/L	**912128**
38	Right	Center Screw	119.63 (4.71)	RS-ELCO 38 M/R	**912127**	RS-ELCO 38 F/R	**912129**
56	Left	Center Screw	174.75 (6.88)	RS-ELCO 56 M/L	**912131**	RS-ELCO 56 F/L	**912133**
56	Right	Center Screw	174.75 (6.88)	RS-ELCO 56 M/R	**912132**	RS-ELCO 56 F/R	**912134**

Accessories

		Type	Order No.	Type	Order No.
Mounting rail		TS 32	**0122800000**	TS 32	**0122800000**
		TS 35 x 7.5	**0383400000**	TS 35 x 7.5	**0383400000**
		TS 35 x 15	**0498000000**	TS 35 x 15	**0498000000**
End bracket	for TS 32	EWK 2	**0199360000**	EWK 2	**0199360000**
	for TS 35	EW 35	**0383560000**	EW 35	**0383560000**

Note :
*The purpose for the different designations, "left" and "right" are relative to the direction the interconnecting cable is plugged into the interface module. ELCO connector cables generally use #14 AWG wire which does not bend easily.

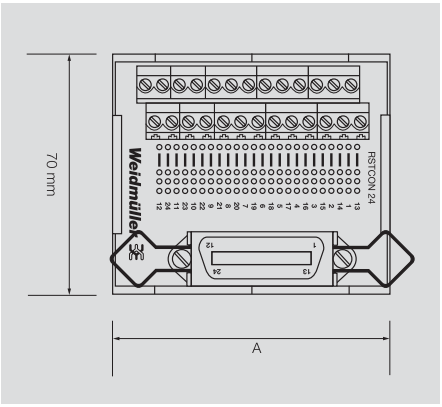
The angled connector reduces the side load torque on the cable connector and printed circuit board by guiding the cable on an angle to the wire duct.

†Designates plug (S – male) or socket (B – female) connector on the interface module.

Multi-pole cable connector for SCSII applications

T-CON

Female connector
with accessory holes



Technical data

Connection data		
- Process side		Screw connection
- Type		LP2N terminal
- Control side		Plug connection
- Type		T-Con
Rated data		
Rated voltage		60 V
Rated current per contact		100 mA
Operating temperature		-25°C…+50°C
Storage temperature		-40°C…+70°C
Terminal wire size		**AWG 26…12**
Insulation stripping length	mm (in.)	7 (.28)
Dimensions		
Overall width	mm (in.)	See table, Dim. A

Ordering data

dimensions (mm/in.)			Type	Order No.
Poles	**Connector Retainer**	**Dim. A**		
50	Bale Latch	149.35 (5.88)	RS-TCON 50 AF	**912201**

Accessories

		Type	Order No.
Mounting rail		TS 32	**0122800000**
		TS 35 x 7.5	**0383400000**
		TS 35 x 15	**0498000000**
End bracket	for TS 32	EWK 2	**0199360000**
	for TS 35	EW 35	**0383560000**

Note :