

**TERMSERIES
TIAL F20**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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Germany
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Product image

Similar to illustration

Extensive wiring efforts lead to high throughput times in electrical cabinet building. Thanks to our TERMSERIES interface adapter, you benefit from the speed of our plug-and-play solution.

To reduce wiring times, pre-assembled cables are used between the control system and the interface level, and are simply connected to the TERMSERIES adapter. This enables throughput times in electrical cabinet building to be significantly reduced.

Our pre-assembled plug-and-play solution with TERMSERIES interface adapter enables minimised wiring effort. The adapter has a universal fit and offers a genuine space advantage in interaction with the TERMSERIES products with identical contours.

Thanks to its symmetrical structure, the adapter can be connected to both TERMSERIES coil and contact connections. The use of positive- and negative-switching logic is also possible for the lower level thanks to the potential changeover switch.

General ordering data

Type	TIAL F20
Order No.	1463550000
Version	TERMSERIES, Adapter, 20-pole plug according to DIN EN 60603-13, long locking lever, Number of signal paths: 16, Rated voltage : 24 V DC, Rated current (per signal path): 60 mA
GTIN (EAN)	4050118331783
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	102 mm	Width (inches)	4.016 inch
Height	43 mm	Height (inches)	1.693 inch
Depth	62 mm	Depth (inches)	2.441 inch
Net weight	88.4 g		

Temperatures

Humidity	5...95% (indoor), T _u = 40°C, without condensation	Operating temperature, max.	60 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...60 °C
Storage temperature	-40 °C...85 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Supply

Voltage supply	24 V DC ± 20 %	Status display	Green LED
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Signals

Current (per signal path), max.	1 A	Number of signal paths	16
Rated current (per signal path)	60 mA	Rated voltage	24 V DC
Total current of all signals, max.	1 A	Voltage, max.	30 V DC

General data

Colour	black	UL 94 flammability rating	V-0
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Insulation coordination

Rated voltage	32 V	Pollution severity	2
Surge voltage category	III	Impulse withstand voltage	1.5 kV
Protection degree	IP20 in installed state		

Further details of approvals / standards

Certificate no. (cULus)	E141197
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Connection data (supply)

Wire connection method	PUSH IN	Number of terminals	4 (+, +, -, -)
Clamping range, rated connection, min.	0.13 mm ²	Clamping range, rated connection, max.	1.5 mm ²
Blade size (supply)	0.6 x 3.5 mm		

Connection data (signal)

Plug type	20-pole plug according to DIN EN 60603-13, long locking lever
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Technical data
Ratings IECEx/ATEX/cUL

Certificate no. (cULus) E141197

Classifications

ETIM 6.0	EC002780	ETIM 7.0	EC002780
eClass 9.0	27-14-11-52	eClass 9.1	27-14-11-52
eClass 10.0	27-14-11-52		

Approvals

Approvals



ROHS Conform

Downloads

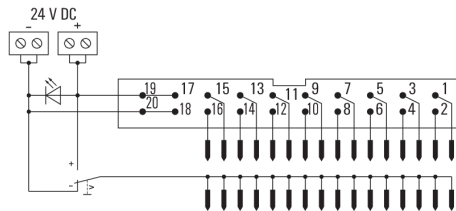
Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Brochure/Catalogue	CAT 4.5 ELECTR 16/17 EN CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Beipackzettel / Package Insert - de/en TERMSERIES Adapter SPS Interface Kabel - Deutsch TERMSERIES Adapters PLC interface cables - English

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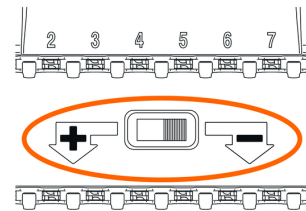
Drawings

Wiring diagram



Example of use

Function of potential switch



The potential switch, located between contact rows of TERMSERIES adapter, is used to switch the potential of the lower contact row to "+" or "-" potential of supply voltage.

Example of use

Installation note for adapter on input

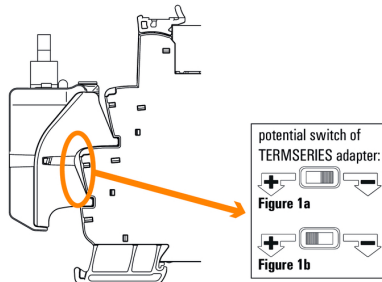
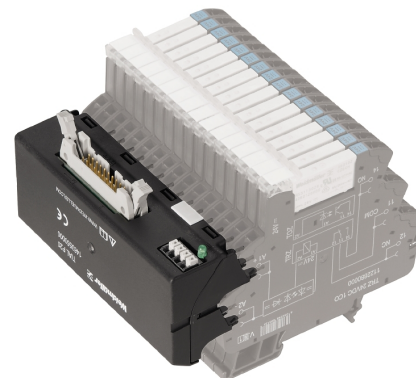


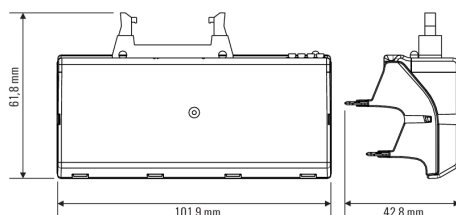
Figure 1a: Using adapter with positive-switching logic: switch potential switch at adapter to "-" position, installation recommended on **24 V DC** input (A1/A2).

Figure 1b: Using adapter with negative-switching logic: switch potential switch at adapter to "+" position, **must** be installed on **24 V UC** input (A1/A2).

Example of use

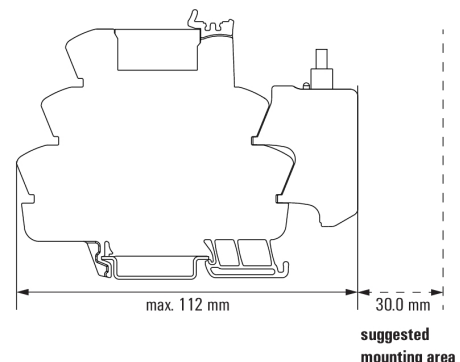


Dimensional drawing



Dimensional drawing

Mounting adapter on input of TERMSERIES socket



Mounting of the adapter on the input
side of the TERMSERIES socket

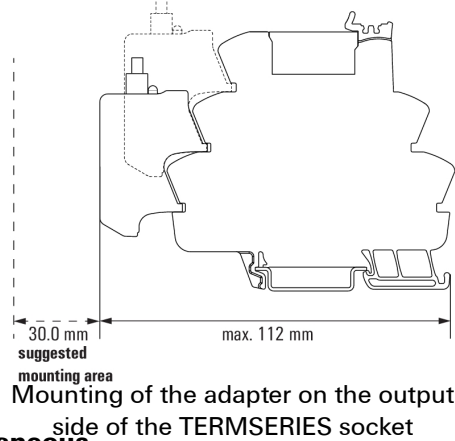
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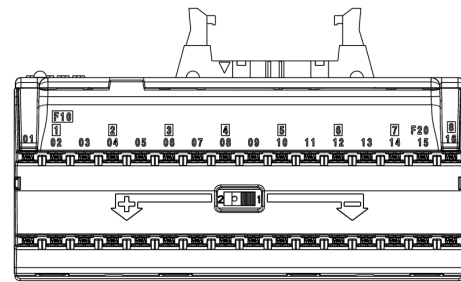
Dimensional drawing

Mounting adapter on output
of TERMSERIES socket

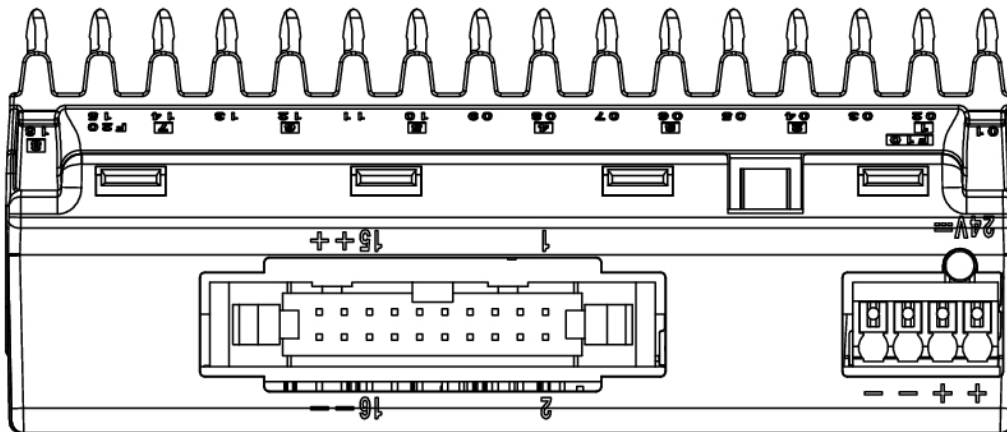


Miscellaneous

Miscellaneous



Front view



Top view