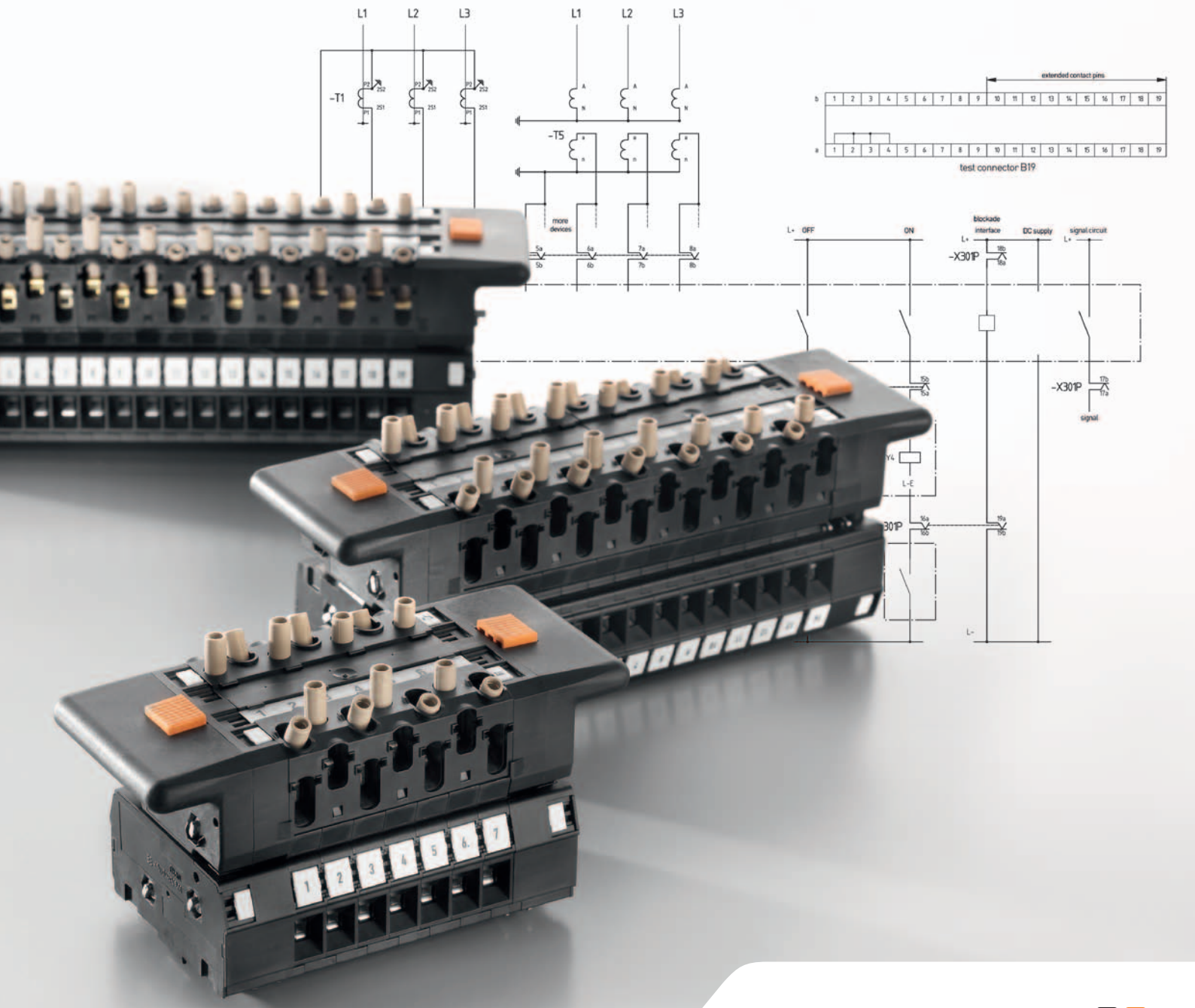
To help you operate power networks simply and securely, we are expanding the functionality of test connector systems

Let's connect.



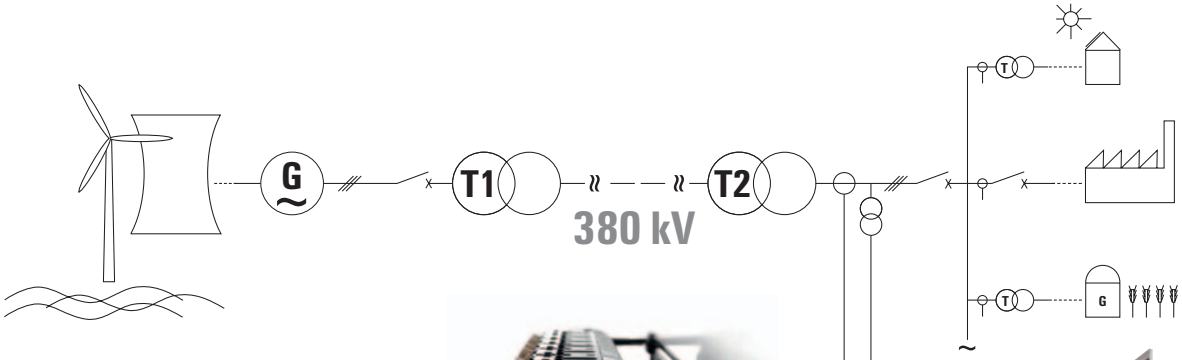
Weidmüller

Operate power systems safely
WIPRO simplifies your tests

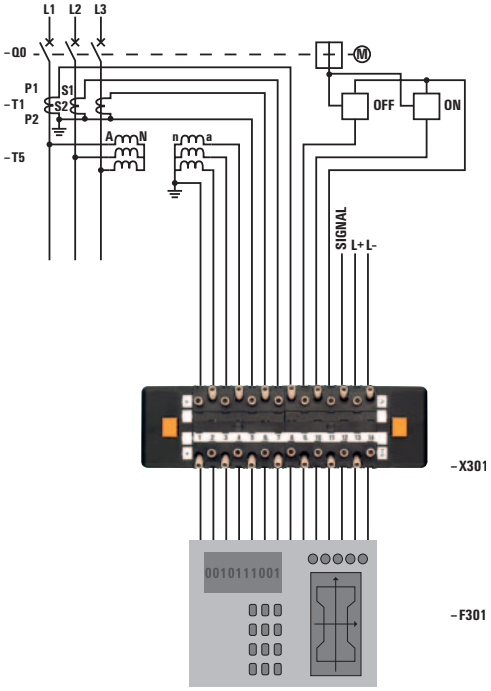
Use of test connector systems in the protection technology for high- and medium-voltage switchgear

Mains protection technology in high- and medium-voltage switchgear places particular demands on power utility companies. Protective equipment monitors the power system for overload as well as earth faults and short circuits, safeguarding the security of the power supply. This protective equipment must be checked at regular intervals to ensure it is working properly.

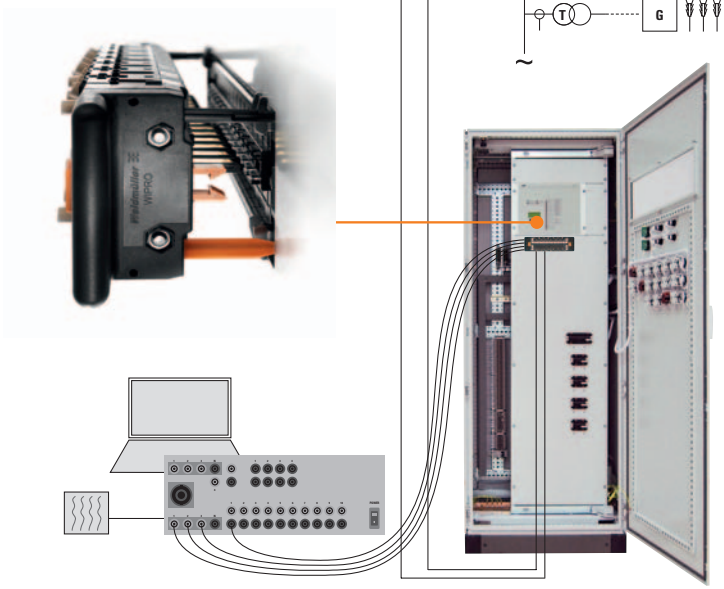
WIPRO (Weidmüller Interface for PROtection Relays) is a universal test connector system for simple and reliable testing of protection technology and provides optimum support for a wide range of measurement situations. Our practical system includes functions such as automatic short-circuiting and lateral disconnection. First make/last break contacts in the test connector enable control signals to be deactivated in advance.



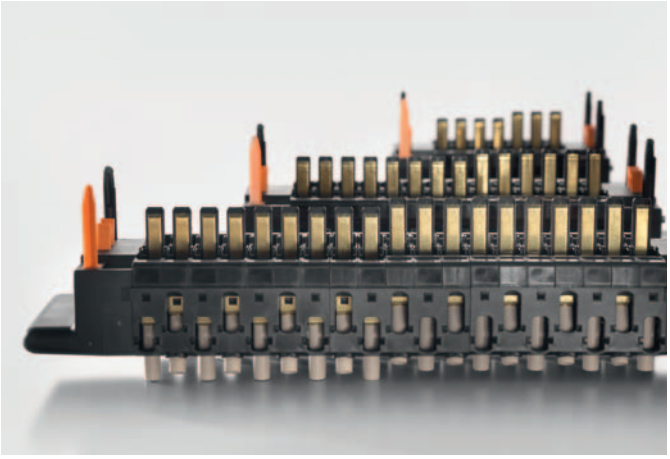
Wiring sample



Sample illustration of a possible circuit



Sample illustration of a possible installation



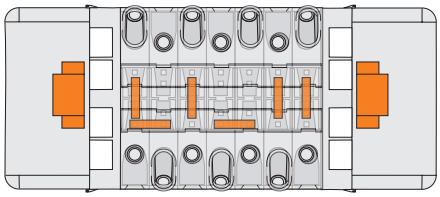
Modular product design

Base units with up to 22 poles and test plugs provide a benchmark for practicality. You have the option of configuring each test connector session in three different contact levels (not configurable in the delivered state). Your application determines the position of the contact levels.

Assembly variants

The base unit is suitable for TS35 profile rail and wall recess mounting.

As an option, it is available with clamping yoke or tension-clamp connections and includes sealable tamper protection for the connection elements.

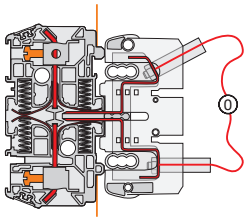


Test connector wiring

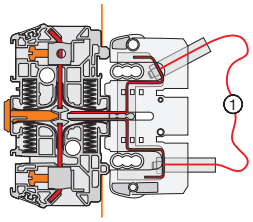
The test connector is configured with a cross-connection wiring in the cross and/or longitudinal direction, which is delivered with a cover hood to prevent access.
By plugging the test connector in parallel, different functions such as the separation of the protection device from the power network, the short-circuiting of the current transformers and the retention or separation of specific energy and signal paths performed automatically. The test connector can be coded, allowing it to be assigned to the individually coded base units of the protective relays.

Function of the disconnection element

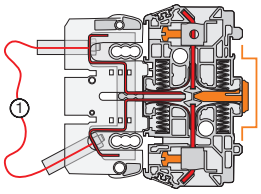
Base unit without disconnection element
The test connector used only disables the contact on the right-hand side, while the other contact remains active.



Base unit for wall recess mounting
The disconnection element disables the contact on the left-hand side.



Base unit for terminal rail mounting
The disconnection element disables the contact on the right-hand side.



Technical data

Ratings data	
Nominal current (current via single base unit or via base unit with test connector)	10 A AC / DC
Max. permissible current during insertion or removal of the test connector	10 A AC / 0.5 ADC
Rated voltage	250 V / 4 kV / 3
Rated cross-sections base unit	
Maximum clamping range of clamping yoke version	0.5 – 10 mm^2
Maximum clamping range of tension clamp version	0.5 – 6 mm^2

Maximum rated current (base unit with/without inserted test connector / single pole test connector)	500 A for 1 sec 1250 A for 30 ms
Protection class	IP 20
Touch safety	in accordance with VDE 0106-100
Continuous operating temperature	-40 – 50 °C

Weidmüller – Partner in industrial connectivity.

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs.
Together we set standards in Industrial Connectivity.

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold, Germany
Phone +49 5231 14-0
Fax +49 5231 1429-2083
info@weidmueller.com
www.weidmueller.com

4 050118 201611

1399820000/08/2012/SMMD