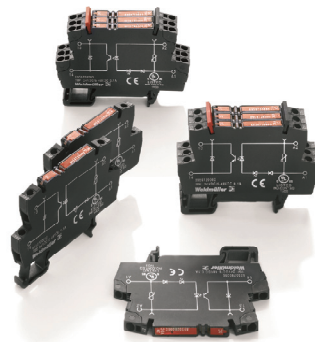


TERMOPTO - Isolating Solutions in Terminal Block Format.

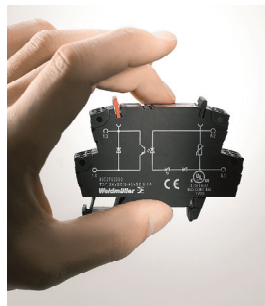
The electronic alternative to relays



Large Variety with compact design and a compelling price/performance ratio

In introducing its new TERMOPTO – Terminal Sized Optos – Weidmüller has broadened its assortment of products with a family of 60 optocouplers that features a compact design and a compelling price-performance ratio. TERMOPTO modules offer a space-saving electronic alternative to conventional electro-mechanical relays for isolating and adapting signals.

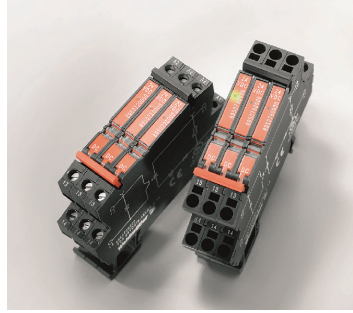
Compact



Compact design reduces space requirements in the switching cabinet by up to 80% compared to conventional relay solutions.

No bigger than two-tier terminal blocks, TERMOPTO modules have a design width of just six millimetres, which can reduce the space required in electrical cabinets by as much as 80 %. The modules have an enclosed housing with IP20 rating and reliably separate the input and output sides. To ensure universal application versatility they have ten different input signals (5...220 VDC, 24...230 VAC) and can optionally be supplied with an AC or DC output (5...48VDC / 0.1A; 5...48VDC / 0.5A; 24...230VAC / 0.1A). Pluggable, standard cross-connectors reduce ground and supply-voltage connection times. Customers are free to choose the connection technology with a choice between screw (clamping yoke) or PUSH IN technologies. PUSH IN reduces wiring times by up to 75%.

Status indicator



LED status indicator provides information on the switching state

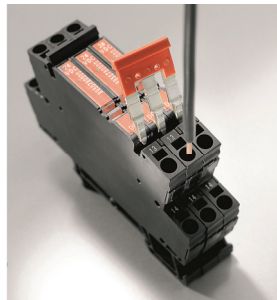
Suitable for deployment in ambient temperatures from -20° C to +60°C, the optocouplers are equipped with a green LED status indicator and accommodate standard WS12/6 MultiCard markers. International approvals such as CE, cULus are in preparation.

Electrical signal separation requirements have been met to date using terminal blocks to connect signals and relay couplers for separating signals. With TERMOPTO (Terminal Sized Opto) Weidmüller is offering users an interesting, maintenance-free and compact alternative. The reason is, TERMOPTO is a terminal block and coupler in a single module – offering electrical isolation in terminal block format.

Long lifetime (MTTF > 2500 years) -

Electrically isolated, wear-free semi-conductor switches (optocouplers) with extensive suppressor circuits guarantee high-levels of operating dependability – a guarantor for longevity and reliability.

Time-saving



PUSH IN screwless connection system and the pluggable cross-connection reduce wiring time by up to 50%

With TERMOPTO users are able to choose between PUSH IN and clamping yoke (screw) connection technologies. With impressively simple and safe handling characteristics PUSH IN reduces wiring times by up to 75%. Stripped of insulation the solid or finely stranded conductors with crimped-on ferrules are simply inserted into the terminal point. No tools are required to make the connection. To de-install a commercially available screwdriver is simply inserted as far as it will go into the opening provided. PUSH IN then releases the conductor, which can now be simply withdrawn. Clamping yoke connections are known and trusted the world over. Their high contact force is a distinguishing characteristic and they guarantee a gas-tight, vibration and

jolt-proof connection. No matter if PUSH IN or clamping yoke is the connection technology of choice, standard pluggable cross-connectors ZQV 4N enable users to reduce ground and supply-voltage connection times by >50%.

TERMOPTO modules have been designed to fulfil high efficiency requirements in different applications. Requiring very little space they reduce service time and increase plant availability. For instance in a bio-gas plant: A simple interface was installed between two electrical cabinets during plant construction. Both switchgear assemblies have their own power supply and are required to be electrically isolated from one another to avoid earth loops. The solution utilising optocouplers for potential-free optical signal transmission is both straightforward and reliable. Or applications in mechanical engineering: To exchange information during the production process, machines couple potential-free 'handshake' signals to external devices. In this application scenario TERMOPTO modules efficiently and reliably protect the I/O signals of the PLC. Or in power generating systems: To avoid system errors due to earth loops or transients all signals must be executed electrically isolated in the electrical cabinet. An electrically isolated potential-free signal transmission via TERMOPTO optocouplers serves as a solution.

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Control and Automation