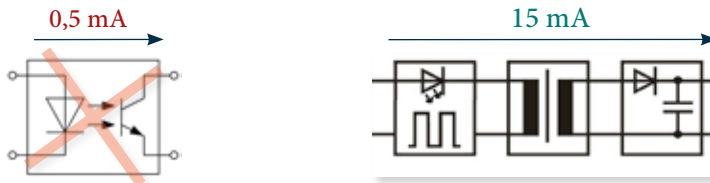


Solid State Relay, but not an optocoupler...

Pulse Transformer Technology

- No minimum load requirement
- Extremely low leakage current

Delcon uses a pulse transformer instead of optocoupler for transmission of the signal from the primary to the secondary side and to provide 4600 VAC galvanic isolation between the field and controller sides of the relay.



Our technology enables a high energy transfer over the isolation (15 mA compared to optocouplers 0,5 mA). It means supply side control signal can be used to drive switching component (triac, MOSFET etc.) directly without an additional amplification circuit. It also allows the use of heavy duty output components of highest quality.

This design is radically different from optocoupler relays and modules in which the energy for the switching circuit is taken from the load circuit, which leads to many drawbacks such as minimum load requirement, leakage current, sensitivity to load line spikes etc.

Built-in circuits and filters

Additionally Delcons Relays include:

1. Suppression circuits on a signal sides to ensure that they work correctly in industrial areas with high interference levels originated by cable capacitance
2. Built-in protection (varistor, diode, RC-circuit etc.) for the switching component to extend reliability and life time even more



Capacitive noise leaking between cables/wires and inner capacitance of long AC-signal cables are commonly acknowledged problems in industry

