

## Reliable switching of LED lights

Hybrid relays combine the advantages of robust relay technology with wear-resistant semiconductor technology in a perfect way.

**Energy saving lamps and LED lighting are nowadays standard in many areas such as commercial properties, office buildings or shopping malls. What is often ignored with these energy savers are the short but very high inrush currents, which therefore require special solutions. The hybrid relay IK 3070/200 from DOLD is ideally suited for this application.**

Conventional electromechanical relays offer a significant advantage over solid-state relays. While solid-state relays permanently generate heat due to the forward voltage, which must be dissipated by heat sinks for larger load currents, the current-carrying relay contact has a very low contact resistance and thus generates hardly any heat loss.

The benefits of solid-state relays are especially in the switching on and off processes. No bouncing, no electric arcs, no mechanical wear - and therefore an almost unlimited electrical service life.

The **hybrid relay IK 3070/200** from DOLD perfectly combines the advantages of both worlds. When switching on, the solid-state relay first switches at the zero crossing of the AC voltage. A few milliseconds later the relay contact takes over the continuous current and ensures low power dissipation. When switching off, the current is first transferred from the relay to the solid-state, which then switches off at zero current. In this way, surge voltages and surge currents in the load circuit are minimized. Thus, LED lighting can be switched safely and permanently with the wear-free hybrid relay.



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