

DSL 4-Channel Relay Unit

Key Features

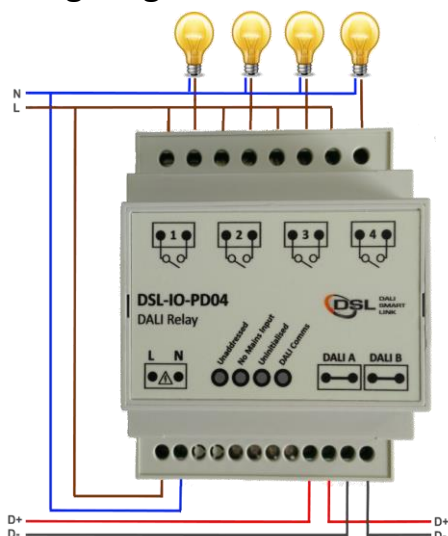
- A DALI-compatible interface for integrating non-DALI devices (e.g. non-dimmable ballasts and building services) into a DALI control system.
- Four independent volt-free contacts rated at 250 VAC / 12 A (resistive).
- 3 kV isolation between contacts allows different phases in one interface.
- 4 kV isolation between contacts and DALI network.



The DaliSmartLink Difference

- One interface only uses one DALI address – *control up to 256 devices on one DALI network.*
- DALI interface is bus-powered, enabling network commissioning even without mains power installed at the interface.
- Reporting of faults and loss of mains power via DALI.
- Zero-crossing relay switching for maximum protection of contacts and connected loads.
- Smallest package: Standard DIN-rail mounted circuit-breaker profile, 71 mm wide.

Typical Wiring Diagram



Technical Data

DALI

Cabling	0.5 mm ² – 1.5 mm ² (DALI cables must be mains rated)
Bus power	16 VDC – 22.5 VDC (DALI standard). <1 mA (all relays off) <3 mA (all relays on)
Addressing	Only 1 DALI address required
Features supported	Read-back of remote mains failure and actual contact status via DALI

Relay Contacts

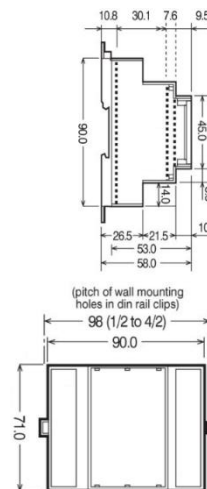
Cabling	Up to 4 mm ² (solid core) 2.5 mm ² (stranded)
Maximum load	250 VAC, 12 A resistive load (IEC 61810)
Lifetime	100,000 operations @ 70 °C
Isolation	3 kV between contacts, 4 kV between contacts and DALI

Mains Power

Mains supply	200 VAC – 240 VAC, 50 Hz – 60 Hz
Mains power	3 W (all relays and LEDs on), 15 mA @ 200 VAC, 12.5 mA @ 240 VAC

Mechanical

Dimensions	71 mm x 58 mm x 90 mm
Housing	ABS DIN-rail case 71 mm wide (UL 94 HB) IP30
Protection	IP30



Environmental

Operating	0 °C to 50 °C, non-condensing humidity
Storage	-20 °C to 85 °C, non-condensing humidity

Standards

EMC	EN 61326 (Electromagnetic Compatibility) EN 55024 (Information Technology Immunity)
Safety	EN 60950-1:2006 + A12:2011 (Information Technology Equipment Safety) Class II Product: Must be mounted in an external enclosure providing mechanical and electrical protection.
Environmental	WEEE, RoHS, Conflict Minerals.