

Electronic Transformer with DALI® interface for 12 V halogen lamps

Features

- Dimmable via DALI® interface (according to DALI® standard) or TouchDIM® or TouchDIM® Sensor
- Suitable for emergency installation
- Reversible switch off in case of short-circuits, overload and overtemperature
- Compliance with all relevant standards

Connecting the transformer to the lamps

- Ensure that the lamp load is within the output range of the transformer (see table)
- Transformer can be connected in parallel on the primary side (see fig. 1a)
- Do not connect the transformer in parallel or series on the secondary side (see fig. 1b)

Wiring

- In accordance with EN 60598 standard,

the recommended connecting cables (see table) must be held firmly by the cable clamp to prevent it from being pushed or pulled

- Secondary side: cable length maximum 2 m, minimum 0.3 m (fig. 2)
- To prevent radio interference keep lamp cables as short as possible, keep them away from metal surfaces and keep them separated as far as possible from mains cables (fig. 2: angles $\geq 90^\circ$). Do not route cables along the transformer
- When using single leads of a cable, secondary wires have to be twisted in pairs
- For units installed in fixtures the luminaire manufacturer is responsible for RFI-compliance

Temperatures

- Avoid high temperatures. Do not place the transformer close to the lamp (minimum distance 0.3 m). Maximum ambient temperature must not exceed 50 °C. Make sure there is adequate space to avoid a build-up of heat. In

critical installations the temperature at t_c has to be controlled.

Caution

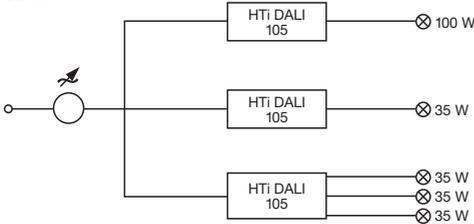
- Transformers must be installed by a qualified electrician
- Electronic transformers are not suitable for any other load than low voltage halogen lamps
- No switching or dimming on the secondary side

General hints

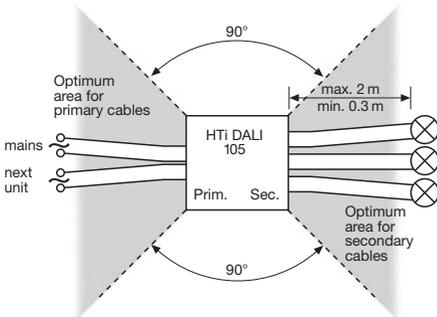
- Do not use DALI® control and TouchDIM® or TouchDIM® Sensor simultaneously (see fig. 4 and 5)
- In case of emergency installation it is recommended to short-circuit the DALI® interface (e.g. with a relais) while emergency operation.
- For further information please refer to "HALOTRONIC – Technical guide" or "DALI-Technical Guide" available at: www.osram.com/ecg-downloads

correct

1. a

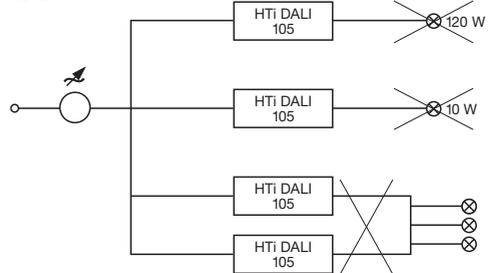


2.

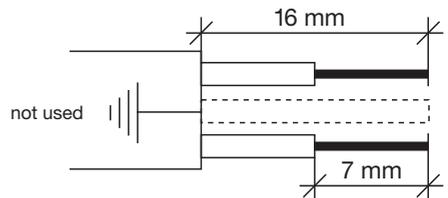


incorrect

1. b



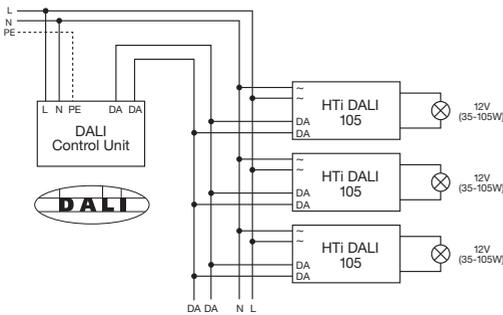
3. Wire stripping



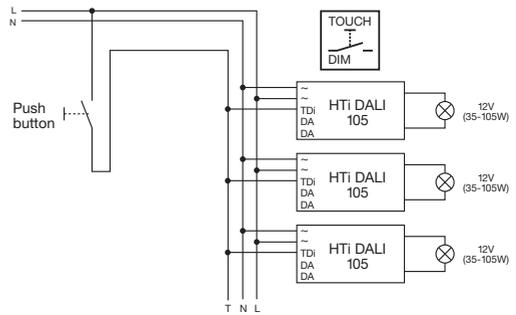


Reference:	HTI DALI 105/230-240 DIM
Nominal line voltage:	230 V - 240 V
Voltage range (AC):	207 V - 254 V
Safe operation:	207 V - 264 V _{AC} ; 176 V - 275 V _{DC}
Range of battery voltage for emergency installation:	176 V - 275 V
Nominal line current:	≤ 0.45 A _{eff.}
Line frequency:	0; 50 - 60 Hz
Power factor:	≥ 0.95
Output voltage (@ 240 V):	11.5 V (35 W); 11.8 V (105 W)
Losses:	≤ 6 W (@ 105 W)
Stand-by/No-load input power	< 0.5 W
Load range:	35 - 105 W
Standards:	EN 55015 (A1: 2007); EN 61000-3-2; EN 61547; EN 61347-2-2
Approvals:	
Temperature range:	-20 °C to +50 °C
Max. inrush current for cold lamps @ 150 W:	< 0.6 A
Dimming interface:	<p>DALI® or TouchDIM® (1-switch-dimm-function) with separated and not isolated TouchDIM® input (TDI)</p> <p>TouchDIM® Sensor functions are also integrated.</p> <p>DALI® interface is protected against polarity reversal and over-voltage (max. 500 V, basic isolation, no SELV)</p>
Dimming range:	0.1 - 100% luminous flux with AC; 1 - 100% with DC
Protection against short circuit, overload and overheating:	Automat. switch off, reversible
Suitable cable types for primary side:	H03VV-F2x0.50mm ² ; H03VV-F2x0.75mm ² ; H05VVH2-F2X0.75mm ² ; H03VVH2-F2x0.75mm ² ; NYM-O 2x1.5 mm ² ; NYM-J 3x1.5 mm ²
Wire cross section, primary:	0.5 mm ² to 1.5 mm ²
Suitable cable types for secondary side:	H05VVH2-F2x0.75mm ² ; H05VV-F2x1.5mm ² ; H05VV-F2x2.5mm ² ; H03VV-F2x0.75mm ² ; NYM-J 3x1.5 mm ² ; NYM-J 3x2.5 mm ² ; NYM-O 2x1.5 mm ²
Wire cross section, secondary:	0.75 mm ² to 2.5 mm ²

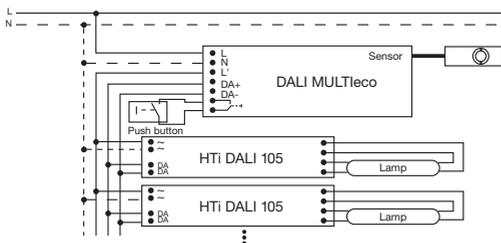
4. Sample DALI® wiring diagram



5. Sample TouchDIM® wiring diagram



6. Sample Sensor & TouchDIM® wiring (MULTIeco)



Recommended energy saving accessories (not included)		
DALI MULTIeco	DALI® control unit for use of LS/PD MULTI 3 sensors	4008321371300
LS/PD MULTI 3 CI	Light- and presence sensor for ceiling integration	4008321916648
ECO CI KIT	Cable clamp for independent mounting of the DALI MULTIeco control unit (e.g. ceiling integration)	4008321392091

www.osram.com/ecg-lms

