

# HALOTRONIC®

## HALOTRONIC® electronic transformers and dimmers for optimum operation of low-voltage halogen lamps

HALOTRONIC® is primarily intended for:

- Recessed ceiling luminaires with strain relief
- Display spots
- Domestic luminaires (integrated and surface-mounted furniture luminaires)

### Versions

HTi DALI 105 DIM can be integrated into DALI lighting systems and are also dimmable via push-button with Touch DIM®. Daylight/motion-dependent operation is possible with the DALleco or DALI PROFESSIONAL system. Suitable for use in emergency power installations.

For more information on DALI, see page 8.58 ff; for usable components, see section 8.

HALOTRONIC® LONG (HTL) is available in 105 W and 225 W versions for convenient separate mounting:

- 2 terminal pairs on the primary side for looping from unit to unit
- 3 large terminal pairs on the secondary side for connecting up to 3 luminaires in parallel

Featuring long lifespans with simultaneously high thermal load capacity, suitable for use in emergency power installations.

HALOTRONIC® MOUSE® HTM is available in three wattages as a compact standard unit with strain relief for shallow suspended ceilings. The electronic transformer from OSRAM – successfully used in millions of applications.

HALOTRONIC® NANO (HTN) in conjunction with miniaturized low-voltage halogen lamps is ideal for particularly tight spaces. Excellent thermal behavior despite the extremely small size.

ET-PARROT® is a cost-effective alternative to conventional transformers in the 70–105 W range.

### Prescribed dimmer for HALOTRONIC®

HTL 105/230-240	
HTL 225/230-240	
HTM 70/230-240	
HTM 105/230-240	
HTM 150/230-240	
HTN 75/230-240 I	
ET-PARROT® 70/220-240 I	
ET-PARROT® 105/220-240 I	

with trailing-edge phase dimmer

with trailing-edge phase dimmer or leading-edge phase dimmer for inductive loads

Dimmers for ohmic loads are not suitable.

HTi DALI 315 DIM as a trailing-edge phase dimmer enables all listed electronic transformers to be integrated into a DALI system and can alternatively be operated by push-button. Daylight/motion-dependent operation is possible with the DALleco or DALI PROFESSIONAL system. Also suitable for high-voltage lamps and high-voltage LED lamps.

### Application

- Accent lighting
- Decorative lighting
- Foyers/reception areas
- Hallways/corridors
- Stores and exhibition spaces
- Single offices and conference rooms
- Domestic areas

### Comfort

- Weighing around 80 % less and taking up 40 % less space than standard transformers, it gives much greater scope for planning halogen-based lighting systems
- All devices have secure strain relief and fixing options
- Dimmable
- Electronically reversible cutout protects against short-circuits, overloads and overtemperature

### Economy

- Protective lamp operation throughout the entire partial-load range for long lamp life
- No additional fusing measures required for ready-to-connect device
- Approx. 60 % lower power loss compared to standard transformers
- Energy efficiency ≥ 91 % in compliance with ErP directive 2012/1194/EC

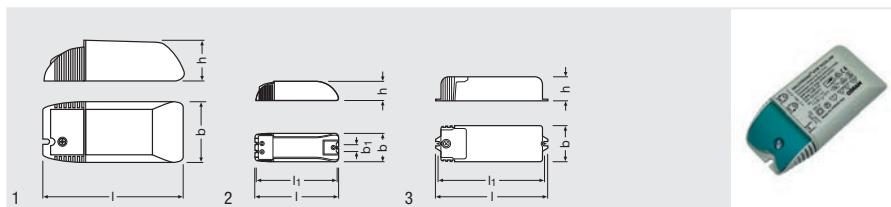
### Safety

- All transformers are VDE/IMQ-tested
- Suitable for mounting on wooden surfaces
- All transformers have
- Suitable without additional measures for luminaires with protection classes II and III and for luminaires with and or and designation
- Complies with international, European and German standards for safety and EMC



# HALOTRONIC® COMPACT – HTM, HTN –

## Electronic transformers for low-voltage halogen lamps



Product name	GTIN (EAN)	W	A	V	λ	kHz ECG	V <sub>OUT</sub>	CONTROL
HTM 70/230...240	4050300442310	20...70	0.27 <sup>1)</sup>	230...240	0.99	52 <sup>3)</sup>	11.2 V / 11.2 <sup>4)</sup>	Trailing- or leading-edge phase control for inductive load dimmers
HTM 105/230...240	4050300442334	35...105	0.41 <sup>1)</sup>	230...240	0.99	43 <sup>3)</sup>	11.3 V / 11.4 <sup>5)</sup>	Trailing- or leading-edge phase control for inductive load dimmers
HTM 150/230...240	4050300581415	50...150	0.57 <sup>1)</sup>	230...240	0.99	40 <sup>3)</sup>	11.4 V / 11.5 <sup>6)</sup>	Trailing- or leading-edge phase control for inductive load dimmers
HTN 75/230...240 I	4008321073037	20...75	0.32 <sup>1)</sup>	230...240	0.95 <sup>2)</sup>	50 <sup>3)</sup>	11.5 V / 11.7 <sup>7)</sup>	Trailing-edge phase control

Product name	T <sub>a</sub>	I [mm]	b [mm]	h [mm]	b <sub>1</sub> [mm]		No.
HTM 70/230...240	0...+50	108	52	33	-	20	1
HTM 105/230...240	0...+45	108	52	33	-	20	1
HTM 150/230...240	0...+45	153	54	36	15	10	2
HTN 75/230...240 I	0...+50	104	33	22	-	20	3

1) Effectively

2) Minimum

3) Approximately

4) 70 W / 20 W

5) 105 W / 35 W

6) 150 W / 50 W

7) 75 W / 20 W

### Product features

- Line frequency: 50...60 Hz
- RI suppression according to EN 55015 (A1:2007)/CISPR 15
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Safety according to EN 61347
- Short-circuit protection, overload protection, overtemperature protection: electronically reversible
- Electrical isolation between the primary side and the secondary side
- Switching between electronic transformer and lamp not permitted
- Energy efficiency:  $\geq 91\%$  (according to ErP regulation 2012/1194/EC)

### Product benefits

- Dimmable on the leading edge (without HTN) and trailing edge
- Very low power loss thanks to high efficacy
- Strain relief suitable for different cable types (HTM)
- Suitable for space-critical installation thanks to compact functional design
- Extremely compact transformer for highly space-critical installation conditions (HTN)
- Protective operation throughout the entire partial-load range for long lamp life

### Areas of application

- Effect and accent lighting
- Living rooms
- Object lighting
- Conference rooms
- Restaurants
- Recessed and surface-mounted furniture luminaires
- Shop lighting
- Event rooms



**OSRAM**