

## ETD-01L-12V-105W

### General

12V LV halogen illuminants can be directly connected to the ETD-01L-12V-105W and controlled via the subnet. The module's casing was designed as a light installation/ceiling insertion appliance (strain reliefs are provided). The connectable load is between 50W and 105W.

The ETD-01L-12V-105W communicates with the subnet digitally. This means that dimming and switching on and off are possible without other components such as relays or power dimmers. The dimming curve has been adapted to the perception of the human eye. The module also has an integrated illuminant monitor which enables a display or an error message.

### The following functions can be performed by the module independently:

- Calculation of increases with times constants from 0.5 seconds to 18 hours
- Independent switch from current ACTUAL analogue values to specified TARGET analogue values with a specified speed (optional in specified time)
- Feedback signal for end of analogue value output after time functions have been performed
- Stop function whilst time functions are being performed
- OVERSAMPLING error correction. The module independently corrects the analogue values skipped by the BUS system cycle times using "OVERSAMPLING". The analogue values between the BUS cycles are transformed back into the 8-bit resolution by means of linearisation.
- Performs flash functions

### In- / Outputs

- 1 12V output max. 105W

### Function displays

- 1 yellow flashing LED signalise the communication with the master via subnet.  
At „duration ON“ the existing operating voltage will be indicated with no BUS function

### Connections

- 2 connections for the subnet (BUS A and B, RS-485)
- 2 connections for the operating voltage (Ub, 0V)
- 1 connection for the mains voltage 230V
- 3 12V connections for fluorescent material



The subaddressing option means that up to four ETD-01L-12V-105Ws can share a module address. Each individual ETD-01L-12V-105W can also be controlled separately with the subaddresses.

The module is equipped with two microcontrollers and can therefore execute even very complex master commands independently. This increases the data throughput on the BUS and reduces the amount of system programming for the user.

## Design

- plastic casing for light installation

### Special function DIP switch 1

Both modules generate a feedback over the condition of the transformer „no-load operation“. The no-load operation recognition responds, if the shining means attached at the trafo fall below a total output of 35 W and the trafo is switched on (arbitrary Dimmwert over

0%). With switched off dimmer the feedback „no-load operation“ is suppressed automatically. For feedback „no-load operation“ must stand the DIP switch S1 in position OFF.

### Special function DIP switch 9 and 10

In each case 4 of these modules divides a „module address“. The DIP switches 9 and 10 serve the so-called subaddress for adjusting.

These are to be adjusted as follows:

Subaddress	DIP-9	DIP-10	confirms to the analogue output in the program
0	0	0	AA**.1
1	0	1	AA**.2
2	1	0	AA**.3
3	1	1	AA**.4

## Technical data

Type	ETD-01L-12V-105W
Art Nr.	80026000
Operating voltage	12V to 35V DC or 12V to 27V AC
Current consumption BUS	25mA at 24V DC
Power supply for transformer	230V 50Hz
Current consumption net	max. 0,47A at 105W exposure, standby 0,015A (230V 50Hz)
Output	12V output, minimum 50W, maximum 105W, max. 2m line
Insulation voltage	300V (subnet / trafo / net)
Safety	EN 61046 (IE1046)
RFI	EN 55015
Cos-Phi	0,96
Temperature rise protection	Temperature protection even resetting
short circuit proof	yes
Subnet (RS-485)	max. 5,6V limited by Z-diodes
Dimensions	LxBxH, 232x54x34mm
Weight	250g
Connection	Screw terminals

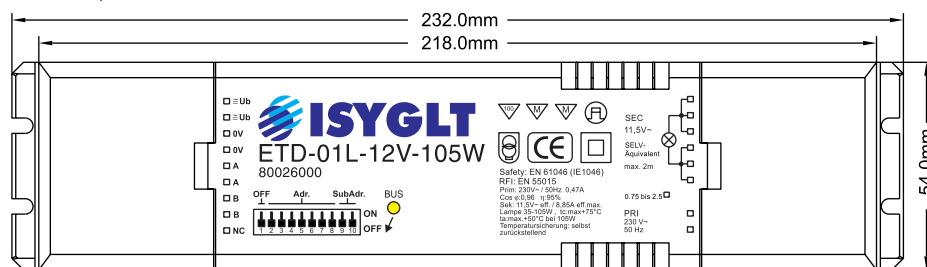
<b>ETD-01L-12V-105W</b>	<b>Continued</b>
Operating temperature	-10...+50°C
Storage temperature	-25...+70°C
Humidity	0 ...85 % r.F. non condensing
Protection grade	IP40
Protection class	II
ESD immunity	Category 3 according to IEC1000-4-2
EMV immunity	Use in typical industrial enviroment. Category 3 according to IEC-1000-4-4 (Test was carried out within a whole system)
CE sign	yes

### Terminal assignment

≅ Ub	Operating voltage
0V	Operating voltage
A	Subnet (BUS A, RS-485)
B	Subnet (BUS B, RS-485)
PRI 230V	Mains voltage 230V 50Hz
PRI 230V	Mains voltage 230V 50Hz
SEC 11,5V	12V output for LV halogen fluorescent material
SEC 11,5V	12V output for LV halogen fluorescent material
E	Input for feedback

### View

Höhe: 34,00mm



ETD-01L-12V-105W