LCC-01

Catalogue sheet

atesystem
FOCUSED ON DETAIL

DOCUMENT INFORMATION

No revision	Author	Revision date	Description
1	Pavlištík Radek	17. 7. 2024	Document Release
2	Moj Tomáš	17.7. 2026	Change of address

Attachments

Notes

Contact

ATEsystem s.r.o.
Technologická 378/9
708 00 Ostrava-Pustkovec
Czech Republic

T +420 595 172 720
And produkty@atesystem.cz
In www.atesystem.cz

CONTENT

1 KEY FEATURES

- Linear current stabilization
- Dimmable
- DIN rail mounting
- Supply voltage up to 30 V DC

2 PRODUCT OVERVIEW

Figure 1 - Front view

Figure 2 - Rear view

Image 4 – Side view

3 PRODUCT PARAMETERS AND WIRING

3.1 Parameters

Table 1 – Parameters

Title	Value			
Basic parameters	MIN	TYPE	MAX	
Supply voltage	5	24	30	V
Output Current (1)	0	-	250	but
Power dissipation on the controller	0	-	3	In
Regulated output (LED)				
Corrugation	0	2	5	but
Digital Input (EN)				
Active level 1	10	-	30	V
Active Level 0	0	-	2	V
Inactive level (2)	3	-	5	V
Ramp speed	3	6	8	ms
Digital Output (OL)				
Active Level 1 (3)	-	VIN-0.6	-	In
Inactive level (3)	-	-	0,3	In

(1) The output current is limited by the maximum power dissipation of the controller. See Section 3.2.

(2) In the inactive level, the default voltage within the specified range provides internal references and there is no need to connect anything further to the device.

(3) The OL overload digital output is active when overloaded, and the supply voltage is switched on the output, when inactive, there is high impedance at the output.

3.2 Block diagram

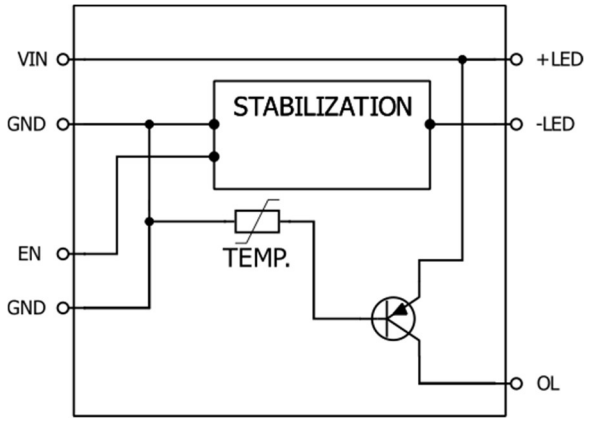

Figure 5 – Block connection

3.3 Calculation of the maximum load:

$(Vin - V_{out}) * I_{out} = P_z$

Input voltage - V_{in}

Output voltage - V_{out}

Output current - Iout

Power dissipation - P_z

The power dissipation must be less than the maximum power dissipation (3 W, see *Table 1 – Parameters*)

3.4 Typical controller wiring

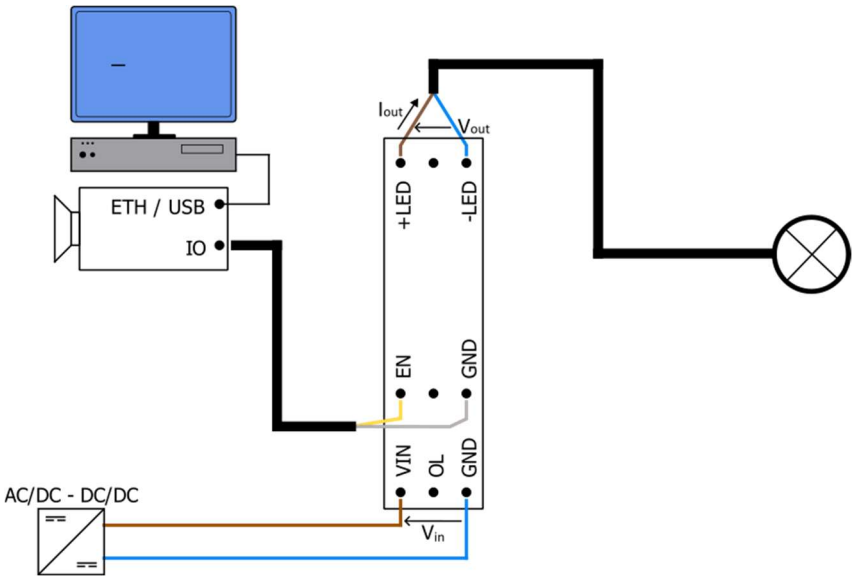

Figure 6 – Typical wiring

4 INPUTS, OUTPUTS, CONNECTORS AND INDICATORS

4.1 Connector connection

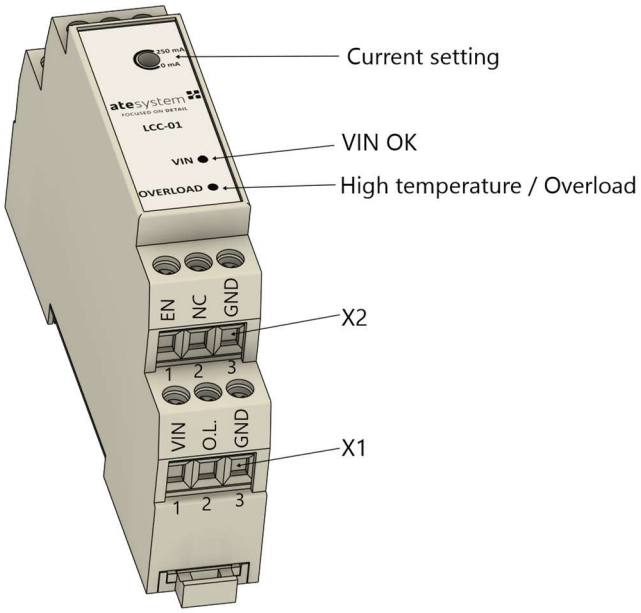

Figure 7 – Front connectors

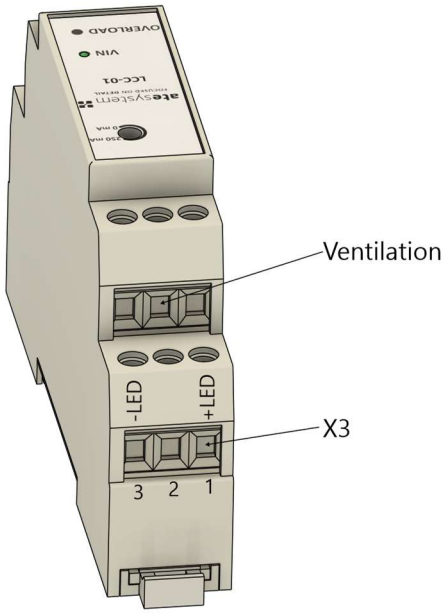

Figure 8 – Rear connector

Table 2 – Description of the X1 connector

Connector X1 – Power		
Pin	**Title**	**Description**
X1.1	VIN	Supply voltage (max. 30V)
X1.3	OL	Overload output
X1.4	GND	Supply voltage 0 V

Table 3 – Description of the X2 connector

Connector X2 – Control		
Pin	**Title**	**Description**
X2.1	EN	Controller Control Connection (TRIGER)
X2.2	NC	Not connected
X2.3	GND	Supply voltage 0 V

Table 4 – Description of the X3 connector

Connector X3 – LED Output		
Pin	**Title**	**Description**
X3.1	+LED	Output + ,or LED anode
X3.2	NC	Not connected
X3.3	-ICE	Output - , or LED cathode

Table 5 – Description of DIM

DIM – Trimmer on the front of the controller	
Title	**Description**
DIM 	The trimmer can be used to reduce the initial current and thus set the required intensity of the illuminator

5 DIMENSIONS

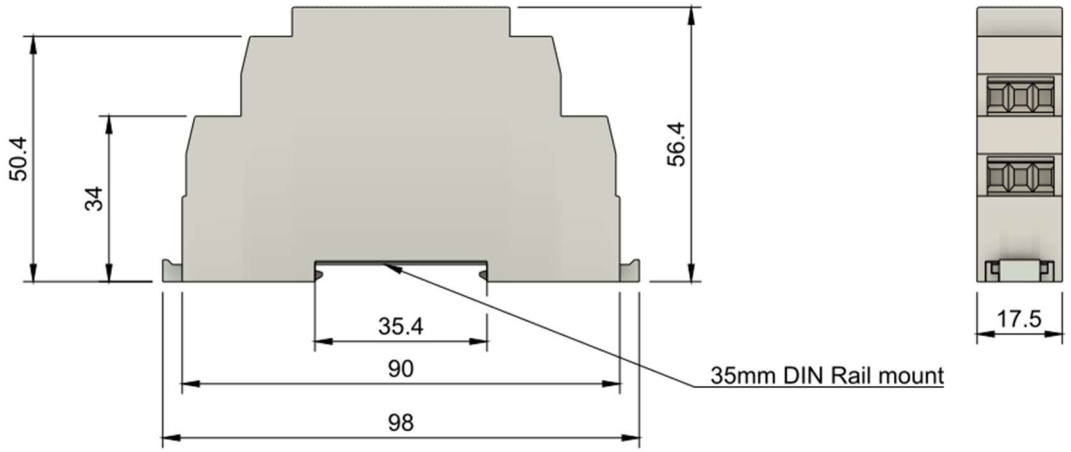

Figure 9– Controller dimensions

6 PRODUCT VARIANTS

Order number:	Title	
63500111	**LCC-01** Industrial Lighting Controller Max 250 mA