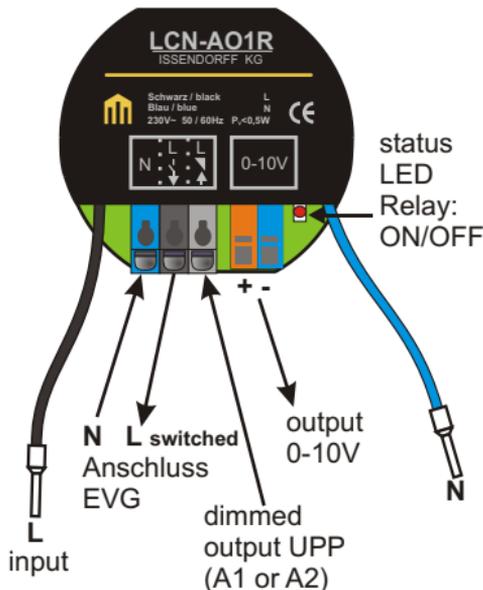


Analogue output module 0-10V with switching contact

The LCN-AO1R converts a dimmed phase of an LCN-UPP directly into an analogue 0-10V (1-10V) control signal. Additionally it supplies a switched 230V output for power supplying the ECG's.



Application

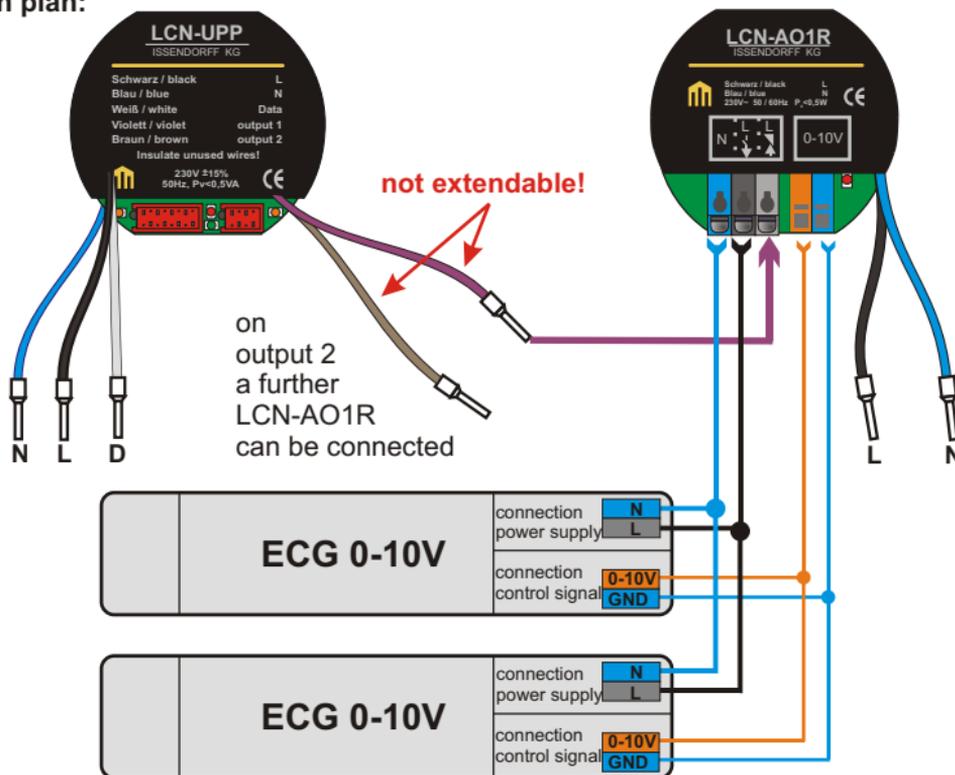
The LCN-AO1R is mainly used for controlling the dimmable control gears (ECG's) with a 0-10V controlling voltage.

It offers additionally an integrated 230V relay, that always switches on when the 0..10V output is 0.

The LCN-AO1R can also be used for controlling other 0-10V devices, like frequency converters, actuators for air conditioning ducts, or also heating valves.

But please be aware: The 0-10V output lies on the N-potential!

Connection plan:



Note:

-  set the output of the LCN-UPP to dimmer when operating with an LCN-AO1R.
-  The 0-10V on the LCN-AO1R “follow” the dimmed values of the electronic outputs.

output UPP:		0-10V output AO1R:
Off / 0%	=	0 V
dimmed / 1-99%	=	1-9 V
On / 100%	=	10 V
-  The integrated relay on the LCN-AO1R switches ON after a brightness value of 0,5% (by 0% OFF).
-  The 0-10V GND terminal lies on the N-potential: the connected ECG (or the actuator) must have a potential free input.
-  The LCN-AO1R functions only in connection with an LCN-UPP. It cannot be operated with an LCN-SH (because of it's suppressing filter). For the installation on a DIN rail, please use the LCN-HU (ECG-interface is integrated).

Technical Data**Connection**

power supply:	230VAC $\pm 15\%$, 50/60Hz (110VAC available)
power consumption:	< 0,8W
connection power side:	fine wire with wire end-sleeves 2x0,75mm ²
terminals/wire type (switch side):	screwless, solid max. 2,5mm ² or fine wire with wire end-sleeves max 1,5mm ²
terminals/wire type (0-10V outp.):	screwless, 0,4-0,8mm
input:	Triac-output LCN-UPP without LCN-FI1 and not extendable relay contact 230VAC, max. 8A
switching output:	voltage fluctuations $\pm 0,5V$
0-10V output:	<u>source current</u> : max. 1,5mA (active operation: LCN-AO1R delivers the current) <u>load current</u> : max. 40mA/output (approx. 40 ECG's) (passive operation: ECG delivers the current) The neg. output (blue terminal) carries N-potential.

Installation:

operating temperature:	-10 ⁰ C..+ 40 ⁰ C
air humidity:	max. 80% rel., non condensing
environmental conditions:	use as stationary installation accord. to VDE632, VDE637
protection art:	IP20, when installed in a flush mounted box
dimensions:	50mm x 22mm

Technical information and images are non binding. Changes are reserved.

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