Ballast DIN dimmer 1 – 10 V

036 56

Description

Control device for electronic ballast or driver power supply with dimmer function; it can supply fluorescent lamps or LED lamps and adjust their brightness depending on the voltage, with values between 1 and 10 V, with which they are driven. From any specially configured control point and inserted in the bus system one can switch the lights connected on and off or set their brightness up to a maximum of 6 A for each component installed.
Pressing the control key quickly one can switch the load on or off, or set its brightness by pressing the key for longer.
The minimum brightness level and the type of load connected (Ballast for fluorescents or driver for LED) can be selected by means of configuration.

Technical data

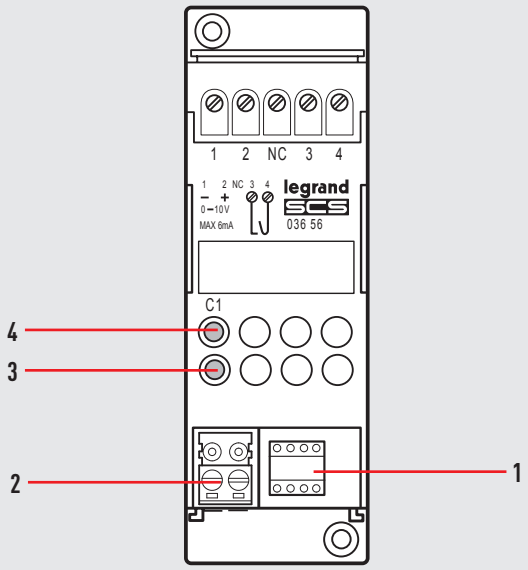
Power supply from SCS BUS:	18 – 27 Vdc
Consumption:	30 mA
Operating temperature:	0 – 40 °C
Power/absorption of driven loads:	fluorescent lamps 460 W @ 2 A
Fluorescent lamps:	460 W @ 2 A

NOTE:
- max. 10 ballasts can be connected (Terminals 1-2), of type T8, T5 or compact
- ballasts which can be driven: PHILIPS HF-REGULATOR, OSRAM QUICKTRONIC DE LUXE DIM
- connect the Ballast earth: failure to connect may cause malfunctioning

NOTE:
1) the power dissipated indicated is that corresponding to the device with all the relays loaded at the load maximum.
If the load is less the dissipated power is less and may be calculated by means of the following formula: P[mW]=140+400*N+10*[I12+I22+...IN2]
P: dissipated power in mW, N: no. of loaded relays, IN: load current corresponding to the N relay.

Dimensional data

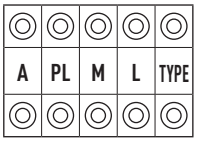
Size: 2 DIN modules



Legend

1. Configurator housing
2. BUS
3. LED
4. Key

Configuration



The actuator performs all the basic operating modes which can be directly configured on the control, apart from those which involve the use of two interlocking relays.

1) Operating mode with configurator in M

Possible function	Configurator in M
The actuator as Slave. Receives a control sent by a Master actuator which has the same address	SLA
Ignores the Room and General controls	PUL
Master actuator with delayed Off control on the corresponding Slave actuator. Only for point-point type control. With the Off control, the Master actuator is disabled; the Slave actuator is disabled after the time set using configurators 1 has elapsed [1]	1 – 4 [1]
Normal operation	–

The ON control activates the Master actuator and the Slave actuator at the same time. The next OFF control deactivates the Master actuator and keeps the Slave actuator active for the period of time set with configurator 1 – 4 inserted in M of the Master actuator as indicated in the table.

Configurator	Time (minutes)
1	1
2	2
3	3
4	4

2) Operating mode with configurator in L " Selection of the minimum brightness level":

The configurator in the L position establishes the minimum output voltage between the 1 – 10 V terminals when the load is on, thus allowing the minimum intensity level to be selected. 5 different voltage level may be selected, making it possible to have, in addition to the 1 – 10 V standard, also the 0 – 10 V standard.

Configurator L	Minimum output voltage
none	1
1	1.5
2	2
3	0
4	0.5

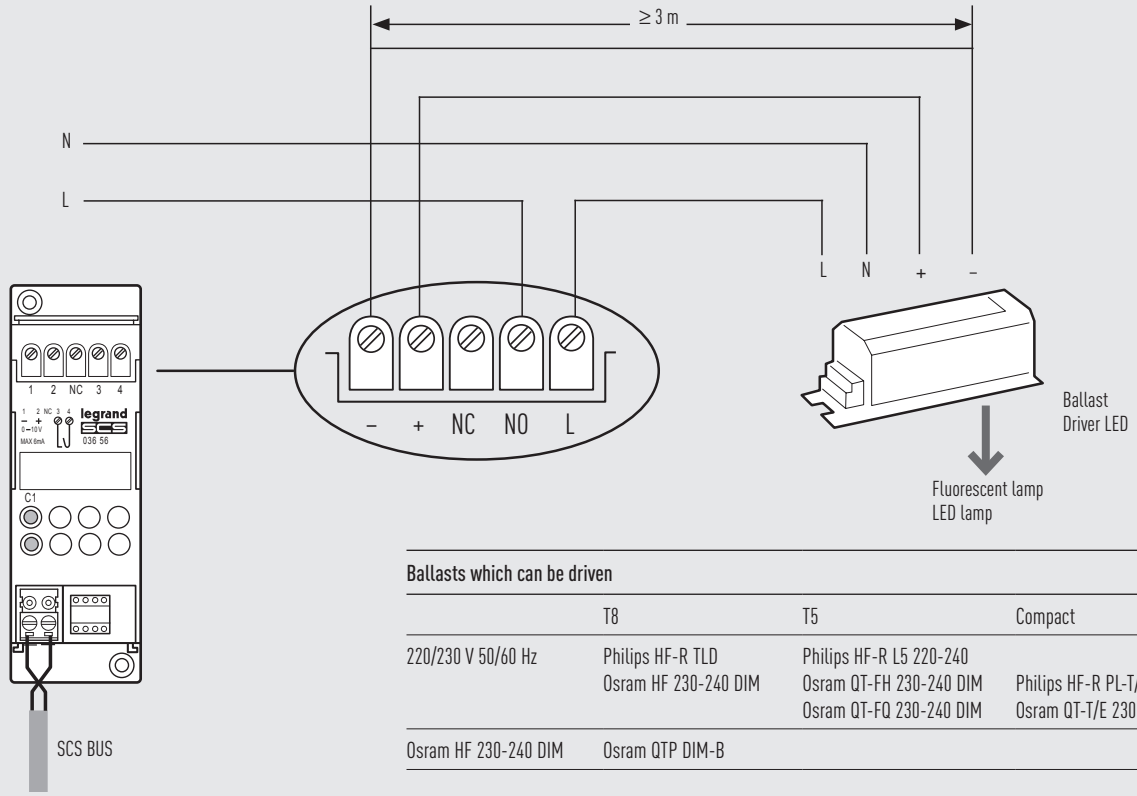
3) Configurator in TYPE "Selection of the type of load used":

The configurator in TYPE position defines the type of load used, on the basis of the following table. If ballasts are used for fluorescent lamps with a 1.5 s typical switch on delay, the device will send the soft /start switch on control taking into account the delay. If however, power supplies for LED lamps must be controlled, the device will send an immediate soft /start switch on control.

Configurator TYPE	Load driven
no configurator	Ballast
1	Driver LED

036 56

Wiring diagram



Ballasts which can be driven

	T8	T5	Compact
220/230 V 50/60 Hz	Philips HF-R TLD Osram HF 230-240 DIM	Philips HF-R L5 220-240 Osram QT-FH 230-240 DIM Osram QT-FQ 230-240 DIM	Philips HF-R PL-T/C 220-240 Osram QT-T/E 230-240 DIM
Osram HF 230-240 DIM	Osram QTP DIM-B		