Intelligent lamp pole receiver LCR 270

The specialist for energy saving control of lighting inside the lamp pole

Beside the classic ripple control processing of up to two relays the LCR270 can also control the dimming input of the lamp control gear. The integrated remotely programmable switch clock completes the control capability of this receiver. For this reason the LCR270 provides various options to reduce the illumination level when admissible.

Digital filtering of the ripple control signal is done by a microcontroller in most modern technology using an algorithm developed by Elster.

Functionality

- Processing of all common ripple control protocols and their specific pulse patterns
- Internal clock with optional buffering by a super cap or a battery, flexible synchronisation using VERSACOM Protocol
- Switch clock depending on weekdays, with remote parameterisation using the 'VERSACOM' protocol (DIN 43861-301)
- Switch clock for a year with calculated dawn and dusk times for street light control. The time schedule of switching is calculated according to the geographical position. It can also be modified manually
- Interface (DALI or 1-10V) for control of the dimming function of the lamp control gear
- Programming and test via the electrical interface (USB) is possible without the 230VAC power supply

- Anti tampering and supervision
 - Automatic refreshing of relay positions every 60 seconds
 - Counter for number of switching actions per relay
 - Log file for storage of pulse pattern and signal levels of last telegrams received (minimum 10 telegrams)
 - Log file for storage of events (power failure, low network frequency, signal absence)
- Learning function and signal absence sensing
- Switching delay (1 s 24 h) related to command
- User friendly programming tool LCRset6
- The receiver can be equipped with one or two 16A soldered output relays for reliable switching of parallel compensated lamps
- Standard cable terminal box for lamp poles with input terminals for up to 3 cables 5 x 16 mm²

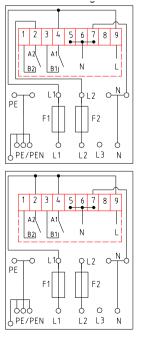


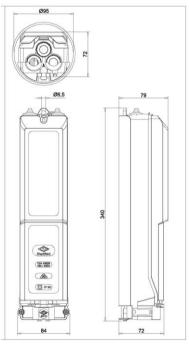


Technical Data subject to alterations

ncy of power supply	50Hz +1% -2%
Power supply Voltage Un Frequency of power supply	50Hz +1%2%
consumption	< 1W/10VA kap.
Lightning impulse strength	8kV 1,2/50 according to DIN EN 61 000-4-5
Filter data Audio frequency Selection of audio frequency Minimum respond signal voltage	158Hz – 1600Hz
	any frequency can be set
	Uf > 0.5% Un
spond signal voltage	Unf < 0.3% Un or according to agreement
Maximum signal level	8-15 times Uf (dependent on frequency)
Real time backup Supercap Battery	> 48 h without power
	3 years withour power at 25° Celsius10 years with power
eviation	< 2 s/day
of Relays	1 to 2 (bistabil)
I switching voltage Uc	250V, 50Hz or 60Hz
I switching current Ic	16A
	Normally open, floating contact
al size	3 x 16 mm² (input)
	2 x 1,5 mm ² (internal connection)
Suitable for load at Filament lamp	up to 2500 W
cent lamp parallel compensated	up to 1300 W / 140 μF
	up to 2000 W / 140 μF
ter setting	RS232 / USB
g (optional)	DALI or 1 – 10 V
ng temperature	-20+60°C
-	-30+60°C
ions	H = 340 mm, W = 84 mm, D = 79 mm for poles inner diameter 95 mm and greater
on class	IP54
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Connection examples and dimensions





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