Load
Management
Solutions

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Intelligent Ripple Control Receiver LCR170

The LCR170 is a high-quality ripple control receiver including switch clock. It can be used for varius control functions and being installed in metering cabinets, switching boxes and subdistribution housings.

Four bistable relays - each with two separate terminals – allow flexible potentialfree connections. Relay contacts with gold-plating ensure particularly permanent contact voltages of 5 VDC.

LCR 170

Compact Receiver for Din-Rail Mounting

Simple Programming without power supply

4 flexible 8A Relays

Functionality

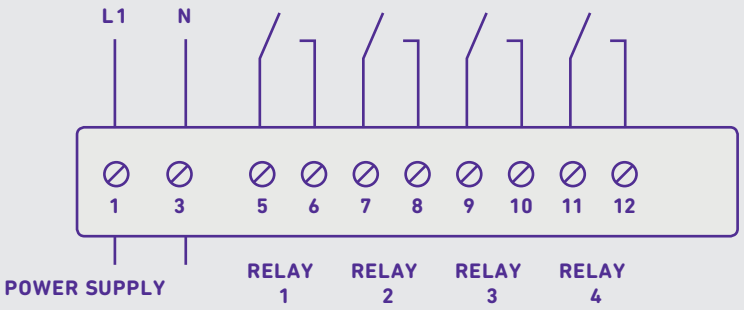
- Processing of all common ripple con-trol protocols and their specific pulsepatterns
- Internal clock with optional buffering by a supercap or a battery, flexible time synchronisation using VERSACOM Protocol (DIN 43861-301)
- Switch clock depending on weekdays, with remote parameterisation using the VERSACOM protocol
- Switch clock for a year with calculated dawn and dusk times for illumination control (e.g. street light) (option)
- Programming, test and readout of sta-tus via the electrical USB interface is possible without mains power supply
- Four output relays, potentialfree, 8A normally closed contact, AgNi contacts with gold-plating, good for low loads (5V, 2mA – 30V, 50mA), resistent against corrosion and pollution
- 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)
- Cyclic switching function
- Switching delay (1 s – 24 h)
- Passing contact function (1 s – 24 h)
- User friendly programming tool LCRset6 usable for all Receivers of the LCR Family

Technical Data

subject to alterations

Power Supply	Voltage Un	230V +15% ... -20%
	Frequency of power supply	50Hz +2%...-2%
	Lightning impulse strength	4kV 1,2/50 according DIN EN 61 000-4-5
Filter Data	Audio Frequency	158 Hz – 1600 Hz
	Selection of audio frequency	any frequency can be set
	Minimum respond signal voltage	Uf > 0.5 % Un
	None respond signal voltage	Unf < 0.3 % Un or according to agreement
	Maximum signal level	8-15 times Uf (dependent on frequency)
Real time clock with backup	Supercap (Option)	> 48 h without power
	Battery (Option)	> 3 years without power at 25 °C, lifetime (powered) > 10 Jahre
	Time deviation	< 2 s/Day
Output Data	Number of relays	4 (bistabil)
	Nominal switching voltage Uc	250VAC, 50Hz oder 60Hz, 30VDC
	Nominal switching current Ic	8A, cos phi = 1, 5A, cos phi = 0,4,
	Relay type	Normally closed, potentialfree
	Contact Material	AgNi with gold plating (good for low loads: 5V, 2mA to 30 V, 50 mA)
	Terminal size	1 x 2,5 mm^2 or 2 x 1,5 mm^2
Climate Conditions	Operating temperature	-20... + 60 °C
	Storage temperature	-30... + 60 °C, non-condensating
Housing		Small casing for DIN rail mounting (DIN 43880), polycarbonate, non-inflammable, self-extinguishing synthetic material, RAL 7035
Protection Class		IP51
Dimensions		H = 92 mm, W = 72 mm, D = 60 mm 4 pitches according DIN 43880

Connection Diagram



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