

LKM720

Radio amplifier for the LKM7XX radio system

The device type LKM720 is a radio amplifier designed for DIN rail mounting. It functions as signal amplifier in small low-energy radio networks according to the international standard IEEE 802.15.4 in the licence-free 2.4 GHz-band. In one network, two amplifiers can operate. In addition, different networks can be operated concurrently. In open areas, the achievable coverage in the network is up to 300 m. It can be doubled by means of the amplifier. Thus, maximum results can be achieved also under difficult conditions that may prevail in buildings. A programming interface allows various parameters to be assigned. When installing the LKM720 device in a switch cabinet, the antenna must be mounted outside the cabinet. All necessary accessories (extension cables, magnetic base antennas, mounting flanges) are available.



TECHNICAL DATA

Transmission frequency:	2.4 GHz	
Type of network:	star-type	amplifier not cascadable
Possible number of amplifiers:	2	per network
Programming interface:	USB	programming interface
Supply voltage:	24 V AC/DC $\pm 20\%$	protected against reverse polarity
Current consumption:	25mA	during transmission 100mA (appr. 4ms)
Antenna:	rod antenna 110mm, SMA-Connector	unscrewable
Achievable range in open areas:	appr. 300m	depending on terrain
Achievable range within buildings:	appr. 50m	greatly depending on the structural design of the building
Housing:	polycarbonate	
Colour:	green	
Degree of protection:	IP20	in clamping range
Type of terminals:	screw terminals	0.2...2.5mm ²
Dimension:	75x75x43mm	
Weight:	180g	
EMV:	EN 61326-6-1:2006	emission and immunity