



WZ LSA

The light signalling receiver with synthesizer



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PCB version

FMN offers a receiver in the **70 cm, 2 m and 4 m frequency band** with local public transport frequencies for **remote control of light signalling systems** that was developed according to the specifications of the VDV (public transport companies association).

The receiver has a **frequency synthesizer** for on-site frequency selection via RS232 interface or DIP switch. Changing of quartz crystals is not necessary. Further frequencies can be programmed via parameter file upon request.

The existing **signal strength output** makes it possible to find the optimal place for installation.

Technical data:

PCB version	WZ LSA 70-3/O (P)	WZ LSA 2-3 (P)	WZ LSA 2-3 UK (P)	WZ LSA 4-3 (P)
Frequency range	450 ... 470 MHz	146 ... 174 MHz	165 ... 195 MHz	68 ... 87.5 MHz
Channel spacing	12.5 kHz	20 kHz	12.5 kHz	20 kHz
Number of RF channels	512			
RF operating mode	simplex			
Sensitivity	typ. -110 dBm	typ. -115 dBm	typ. -115 dBm	typ. -114 dBm
Demodulation	FM			
AF output	AC coupled			
Frequency response	20 Hz ... 3 kHz			
Distortion factor	typ. 3 %			
Voltage	9 ... 15 V DC			
Current consumption	typ. 60 mA	typ. 60 mA	typ. 60 mA	typ. 85 mA
Interfaces	2-pin SIL connector for HF input; 5-pin SIL connector for operating voltage, AF output, RSSI output; 20-pin SIL connector for DIP-switch seizure, operating voltage, AF output, RSSI output, RS232 programming			
Temperature range	-25 °C...+75 °C			
Dimensions	approx. 96 x 68 x 14 mm (L x W x H)			
Weight	approx. 60 g			
Approval	ETSI EN 300 113 (data)			
Housing version	WZ LSA 70-3/O (G)	WZ LSA 2-3 (G)	WZ LSA 2-3 UK (G)	WZ LSA 4-3 (G)
Interfaces	TNC antenna socket; 10-pin AF socket U-97/U for operating voltage, AF output, RSSI output			
Protection class	IP65			
Dimensions	approx. 125 x 80 x 60 mm (L x W x H)			
Weight	approx. 615 g			

Options:

- 12.5 / 20 / 25 kHz channel spacing
- Other frequencies and special frequencies
- Optional GMSK or FFSK modem
- Can also be used as analogue service radio receiver