

DCF77 Sensor

User Manual



DMX [®]
4
ALL



For your own safety, please read this user manual and warnings carefully before installation.

Description

The **DCF77 Sensor** is a receiver of the DCF77 radio clock time signal.

The DCF antenna is tuned to the DCF77 time transmitter near Frankfurt. Based on the output signal, time and date can be determined to the second with the help of an external analysis unit.

A suitable installation housing with IP protection is available as accessory for mounting.

Data sheet

Power supply:	5-24V DC
Output:	Received DCF77 signal
Receive frequency:	77,5 kHz
Connections:	screw terminals 3pin
Working temperature:	-10°C up to 45°C
Dimension:	66mm x 66mm

Content

- DCF77 Sensor
- Quick guide (german/english)

Connection

Only connect the DCF77 sensor to the terminals provided for this purpose on the ArtNet Player X or TimeMaster!



Ensured that the device is installed in a housing which does not shield the DCF77 radio signal.
The device must be installed in such a way that unusually high interference radiation cannot affect the function!

After implementing the DCF77 sensor, it may take up to 20 minutes to synchronize the receiver with the DCF signal and output the output signal.

Cable

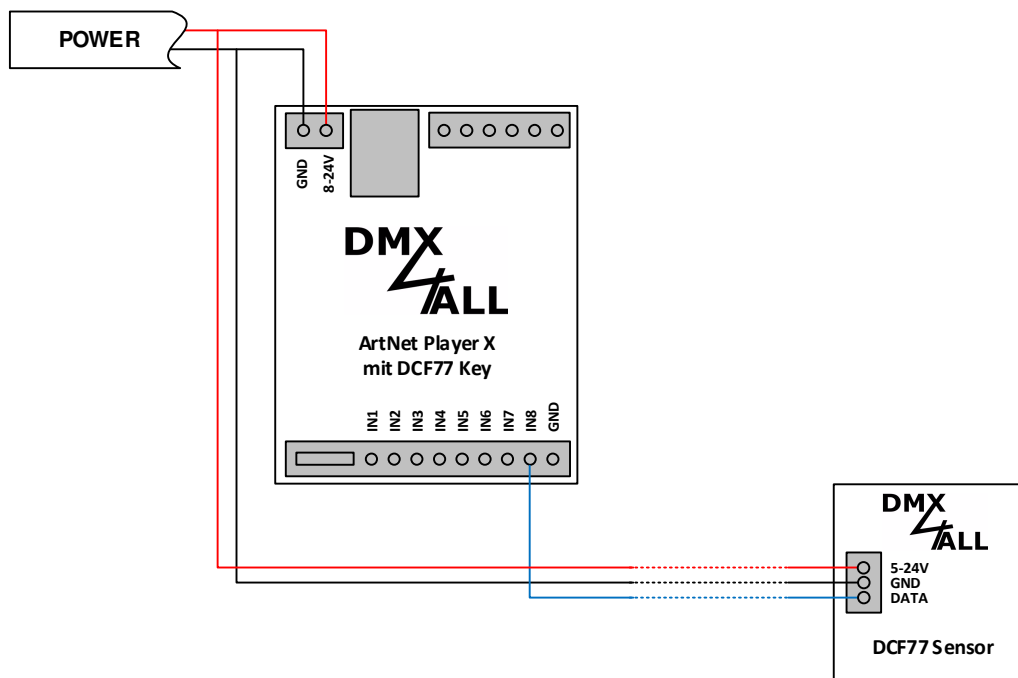
The **DCF77 sensor** should be run with the shortest possible cable lengths.
A parallel routing of the connection cable to other lines should be avoided.

Maximum cable length → 50m

Cable cross section → 0,5mm² up to 2,5mm²

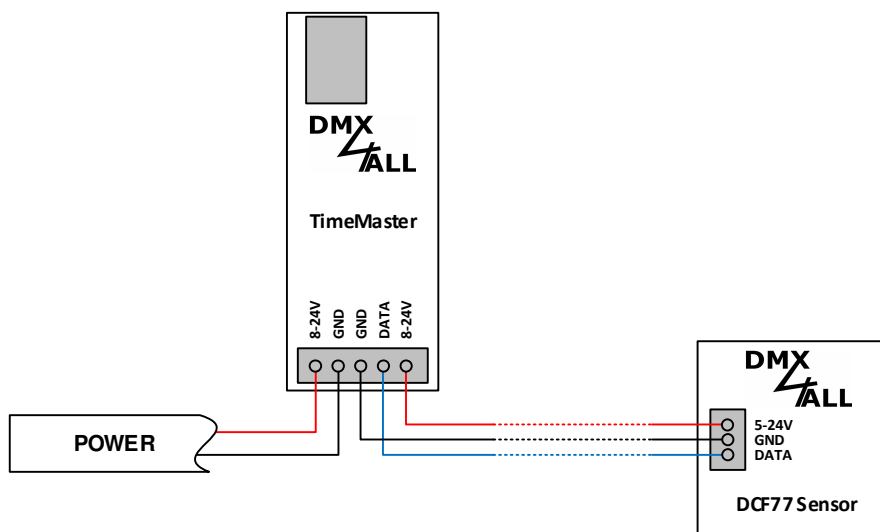
Connection at ArtNet Player X

The DCF77 signal from the DCF77 sensor must be connected to IN8.



Connection at TimeMaster

The DCF77 sensor is to connect to the terminals GND / DATA / 8-24V at the TimeMaster.

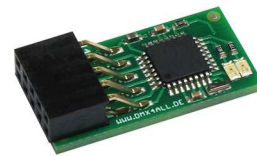


Accessories

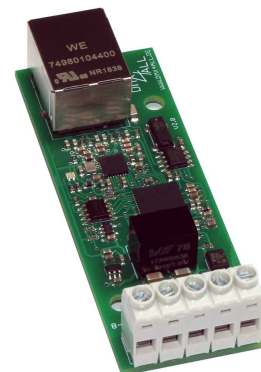
Installation housing 94x94x57



DCF77 Key

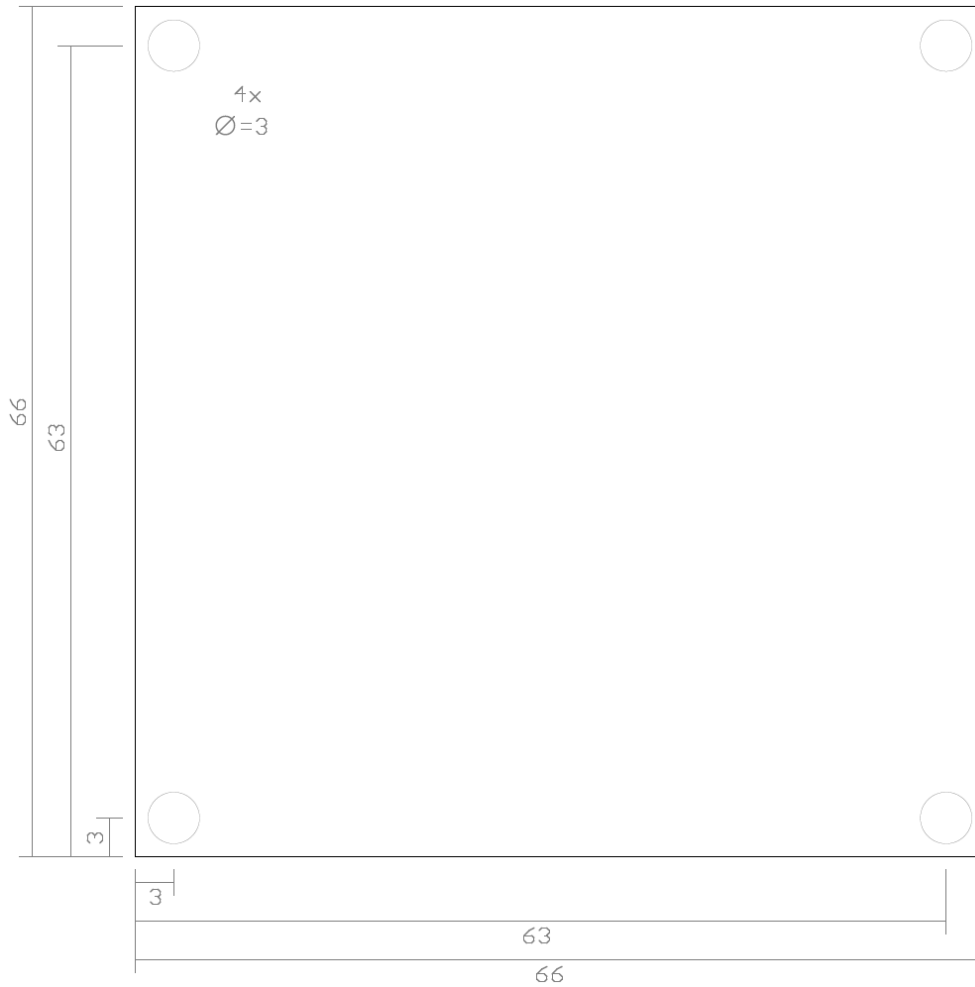


TimeMaster



Dimension

S



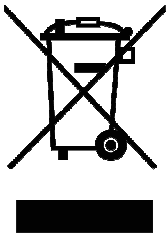
All details in mm

CE-Conformity



This assembly (board) is controlled by a microprocessor and uses high frequency. In order to maintain the properties of the module with regard to CE conformity, installation into a closed metal housing in accordance with the EMC directive 2014/30/EU is necessary.

Disposal



Electronical and electronic products must not be disposed in domestic waste. Dispose the product at the end of its service life in accordance with applicable legal regulations. Information on this can be obtained from your local waste disposal company.

Warning



This device is no toy. Keep out of the reach of children. Parents are liable for consequential damages caused by nonobservance for their children.

Risk-Notes



You purchased a technical product. Conformable to the best available technology the following risks should not be excluded:

Failure risk:

The device can drop out partially or completely at any time without warning. To reduce the probability of a failure a redundant system structure is necessary.

Initiation risk:

For the installation of the board, the board must be connected and adjusted to foreign components according to the device paperwork. This work can only be done by qualified personnel, which read the full device paperwork and understand it.

Operating risk:

The Change or the operation under special conditions of the installed systems/components could as well as hidden defects cause to breakdown within the running time.

Misusage risk:

Any nonstandard use could cause incalculable risks and is not allowed.

Warning: It is not allowed to use the device in an operation, where the safety of persons depend on this device.



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