

DATA SHEET

PX781

Driver LED C.C. 3 x 700mA

Device description

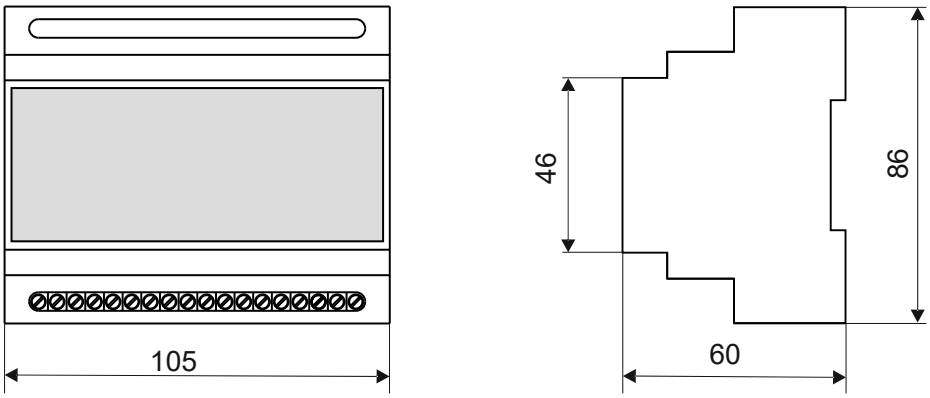
Driver LED 3 x 700mA with built-in DMX512 signal receiver is designed to control LEDs. The built-in DMX receiver allows for activating 3 channels (R, G, B) by using directly the DMX protocol. The device has been placed in a housing adapted for mounting on a 35mm DIN rail. A wide range of supply voltage and a high level of current-carrying capacity enabled activating large quantities of LEDs.

PX781 can be controlled by the DMX signal or it can work independently. In this operation mode, the user has access to a fully programmable stage and 18 default sequences for which can be also change the reproduction speed and the smoothness of transition of particular steps. With the use of 16-bit resolution, controlling the parameters of channels is completely smooth. Moreover, the driver offers an effect control mode which allows for controlling the programs that are built into the device and, at the same time, changing such parameters as speed, brightness and fade settings using the DMX512 signal sent from an external controller.

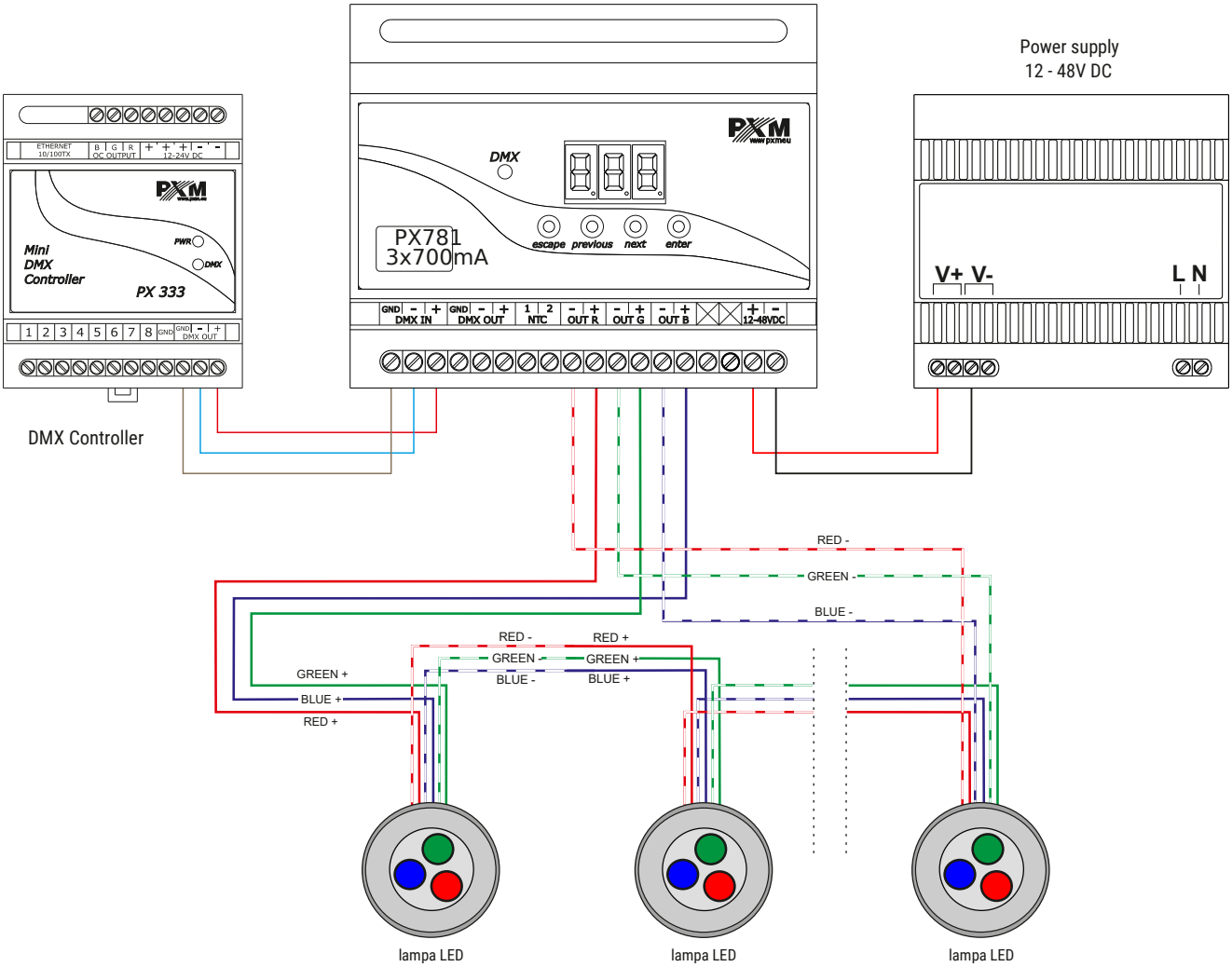
The driver offers a built-in control signal frequency tuning system ("*flicker free*" technology), which makes it useful in applications for the television industry. As LEDs from the RGB series often differ in parameters, problems in receiving white color may occur (triggering 100% at all channels). This is why the PX781 has been equipped with a very useful feature called "white balance". With this feature, each set of LEDs can be adjusted so that the control of individual colors by the module enables achieving white color at full activation. What is more, this feature allows for adjusting color temperature of white.

PX781 has also been equipped with a function of temperature power output limit and connectors for connecting a temperature sensor.

Technical drawing



Connection diagram



Technical data

type	PX781
DMX input	1 (512 channels)
DMX output	1 (24 – 512 channels)
RDM protocol support	yes
number of current outputs	3
max current consumption	2.1A
no-load power consumption	0.5W
output load capacity	700mA / channel (+2% ÷ -5%)
output short circuit protection	yes
output sockets	screw terminals
number of programmable scene	1
built-in programs	18
Master / Slave mode	yes
interpolated resolution of output control	16 bit
power supply	12 – 48V DC
weight	0.2kg
dimensions	width: 105mm (6 DIN rail modules) height: 86mm depth: 60mm