DATA SHEET

PX818-3
PX818-4
PX818-5

Driver LED C.V. 3 x 5A
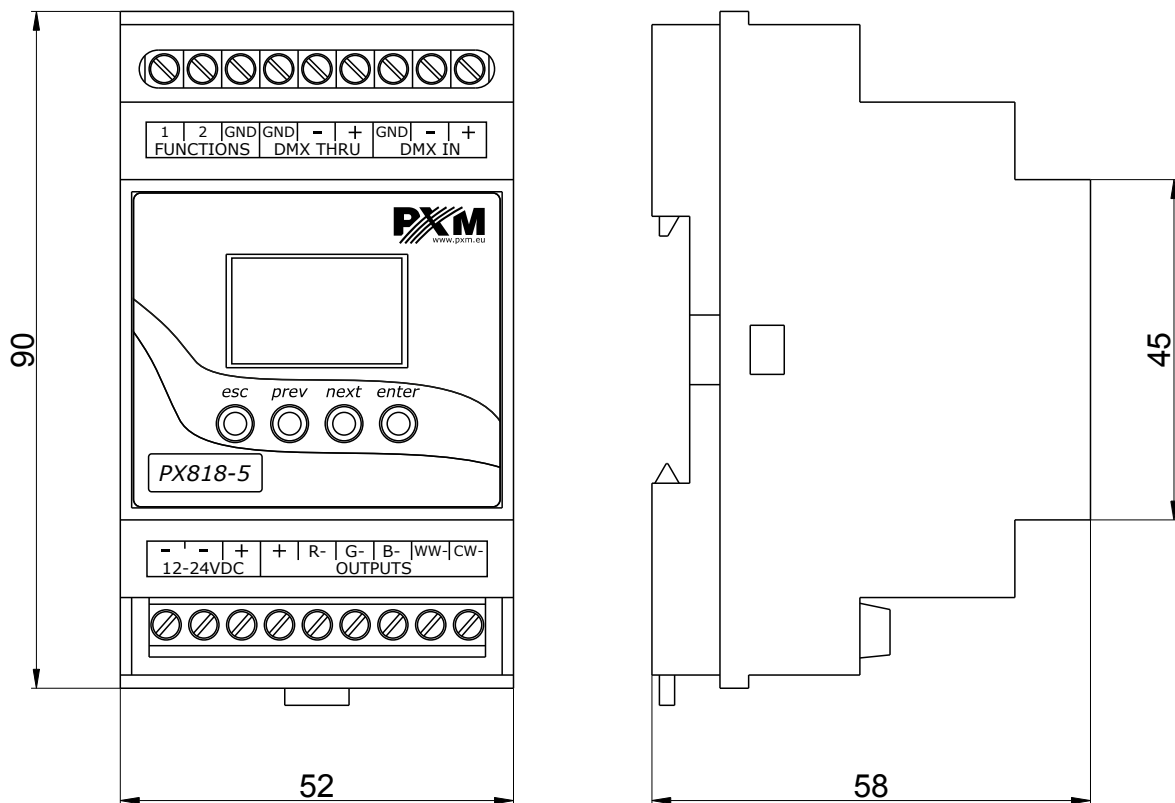Driver LED C.V. 4 x 4A
Driver LED C.V. 5 x 3A

Device description

The PX818 driver is designed to control LEDs. The device has been adapted to be mounted on a DIN rail and equipped with automatic current protection. The built-in DMX receiver allows to control 3 / 4 / 5 channels (R, G, B / R, G, B, W / R, G, B, WW, CW). A wide range of supply voltage and high current carrying capacity of the outputs (5A / 4A / 3A) enable the control of a large number of LEDs.

The PX818 can be controlled by the DMX signal or it can work independently. In such operation mode, the user has access to a fully programmable scene. Thanks to the interpolated resolution of the output control at the 16 bit level, the control of the parameters of individual 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 DMX-512 signal sent from an external controller.
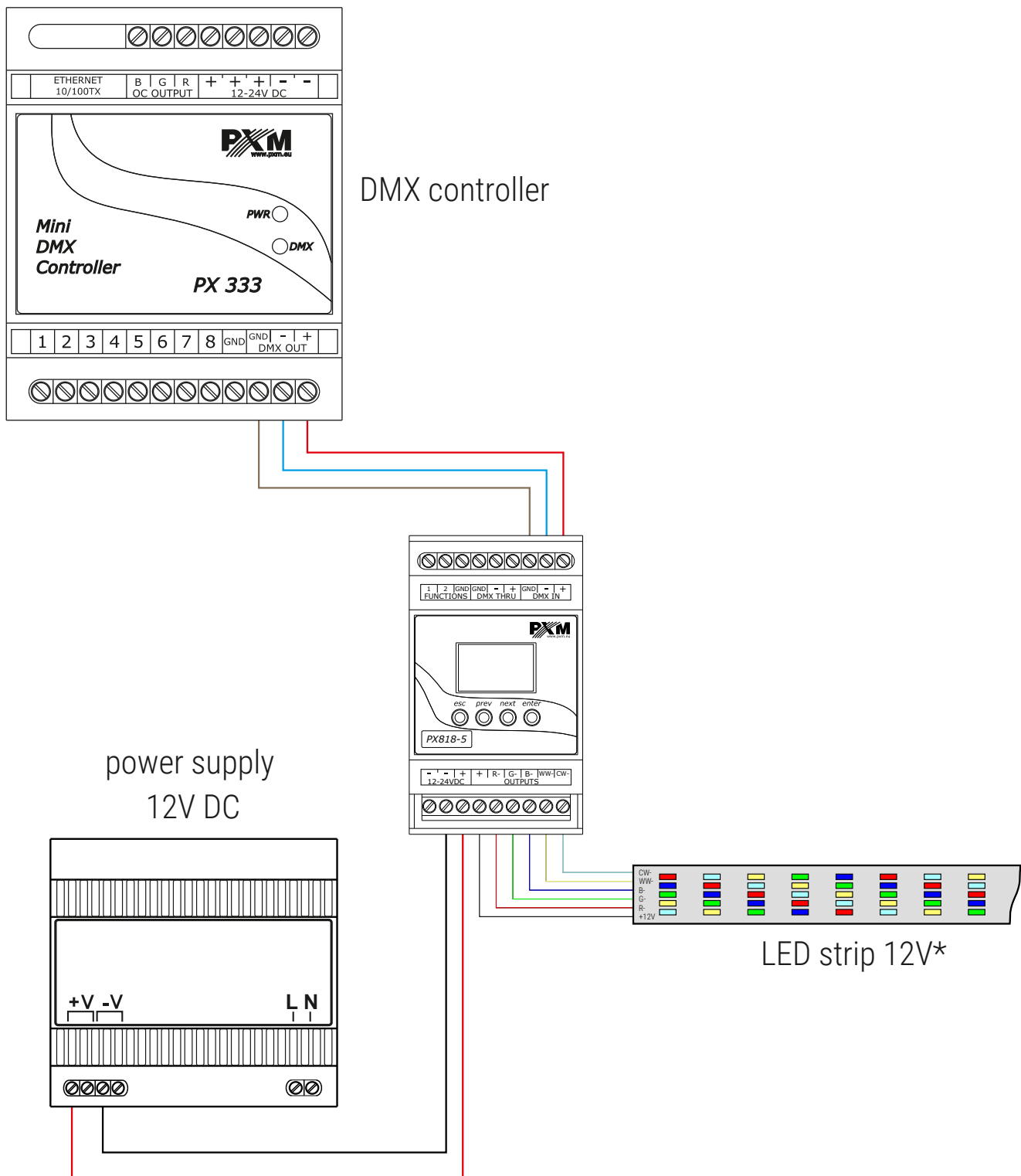
PX818 also supports RDM protocol with is extension of DMX-512 protocol.

The driver offers a built-in control signal frequency tuning system ("*flicker free*" technology), which makes it useful in applications for the television industry. The refresh rate of the signal can be set to 1.5 / 3 / 6 / 12 / 24 kHz. As LEDs from the RGB, RGBW series often differ in parameters, problems in receiving white color may occur (triggering 100% at all channels). This is why the PX818 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 output color.

Technical drawing

NOTE! The arrangement of connectors in PX818-3 and PX818-4 may differ from the version shown in the technical drawing above (PX818-5).

Connection diagram

DMX controller

Mini DMX Controller **PX 333**

power supply 12V DC

LED strip 12V*

* typical LED strips are supplied with 12V DC – then the PX818 has to be connected also the 12V DC power supply with adequate power, in the case of using LED strips supplied with 24V DC, the PX818 has to be connected to 24V DC power supply that power is matched to the length of the strip.

NOTE! The arrangement of connectors in PX818-3 and PX818-4 may differ from the version shown in the example connection diagram above (PX818-5).

type	PX818-3 PX818-4 PX818-5
DMX channels	512
RDM protocol support	yes
power supply	12 – 24V DC
max. current consumption	16A
power consumption without load	max. 0.8W
output channel number	3 / 4 / 5 (depending on version)
interpolated resolution of output control	16 bit
programmable scenes	1
outputs current capacity	3A / 4A / 5A / channel (depending on version)
output sockets	screw connectors
Master / Slave mode	yes
weight	0.2kg
dimensions	width: 52mm (3 DIN rail modules) height: 90mm depth: 58mm