Device description

A splitter, a DMX signal distributor, allows for the creation of branches in extensive DMX installations. Connecting a large number of receivers in series can be troublesome, which is why the possibility of creating branches of the DMX track using a splitter was created.
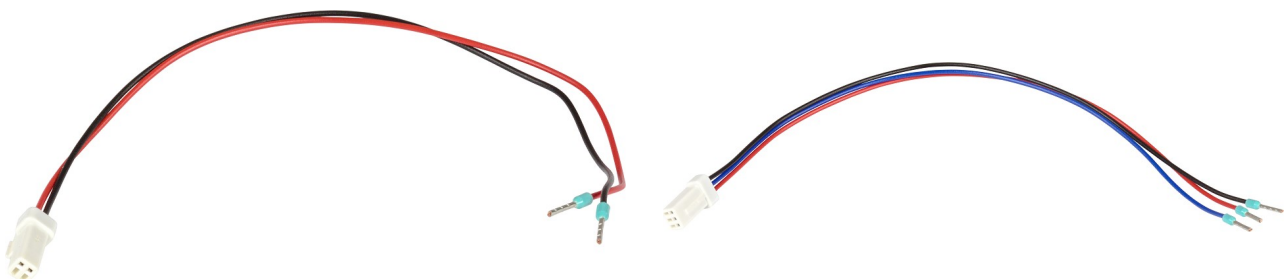
With the PX949-IP-TH you can split the input DMX signal into 4 independent branches. The individual output lines are galvanically separated from both the input and from each other. The splitter can operate in three modes:
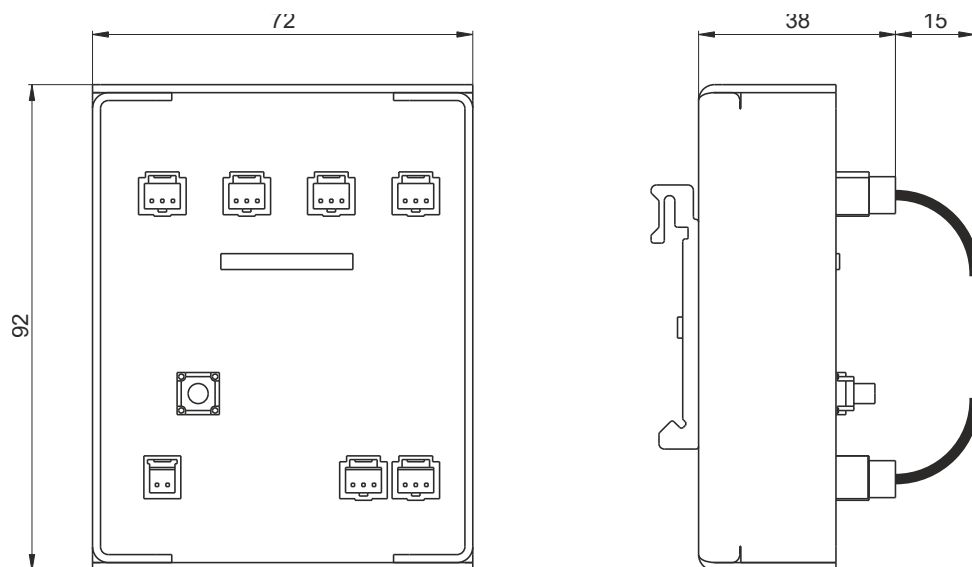
- *filtering* – incoming RDM packets are discarded and the output DMX signal is completely regenerated with the following parameters:
  - *Break* – 320µs,
  - *MAB* – 30µs,
  - *MBF* – 10µs,
  - *WAIT* – 200µs,
  - the number of sent channels is 24 – 512 depending on the number of input channels – PX949-IP-TH recognizes how many DMX channels are received,
- *bypass* – the output signal is exactly the same as the input signal – RDM is not supported,
- *normal* – the splitter allows for bidirectional transmission of RDM packets.

The DMX-RDM IP TH splitter is manufactured in an IP65 housing adapted for mounting on standard 35mm DIN rails.
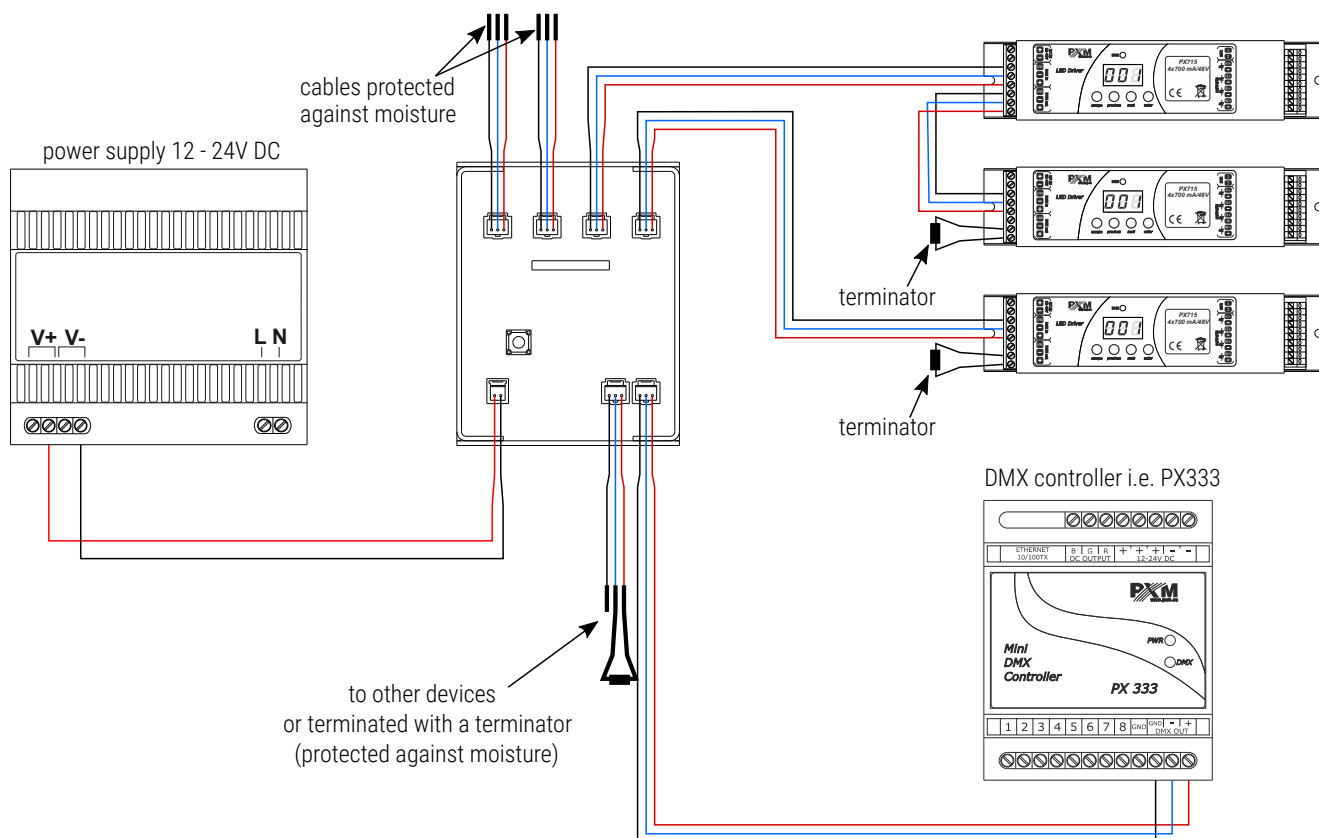
The set includes:
- 1 x power cord with plug,
- 6 x DMX cables with plug.

Technical drawing

NOTE! Remember to leave at least 1.5 cm for cables connected to the device using plugs.

Connection diagram

cables protected against moisture

power supply 12 - 24V DC

V+ V-   L N

terminator

terminator

to other devices or terminated with a terminator (protected against moisture)

DMX controller i.e. PX333

Mini DMX Controller PX 333

www.pxm.pl
BDO register number 000005972   2
Rev.1-0
04.02.2025

Technical data

type	PX949-IP-TH
power supply	12 – 24V DC
DMX channels (IN = OUT)	24 – 512
number of DMX inputs	1
number of DMX outputs	4
number of modes	3 (filtering / bypass / normal)
RDM protocol support	yes (in "normal" mode)
optical isolation of DMX lines	yes
insulation breakdown voltage IN/OUT	>1000V
power consumption	max. 5W
tightness class	IP65
weight	0.4kg
dimensions	width: 72mm heigth: 82mm depth: 38mm (+15mm for cable)