LDT-SPI-EXT-TX

SPI-to-Differential Signal Extension Transmitter

The transmitter converts local SPI data/clock into differential signals for the extension cable.

Supply voltage	5-24 VDC
Input signal	SPI (TTL), data + clock
Output type	2 differential signal pairs, data + clock
Maximum extension distance	Up to 120 m with the matching transmitter/receiver arrangement
Mounting	DIN rail TS-35/7.5 or TS-35/15
IP rating	IP20
Operating temperature	-25 to +55 °C
Body dimensions	110 x 67 x 48 mm

Not a standalone pixel controller or LED driver. The extension distance depends on the documented cable and installation arrangement.

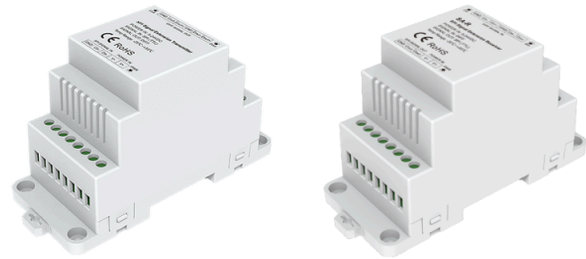
The following reference pages include the complete wiring, dimensions, settings and operating instructions. Use the lighting and hardware variant identified above; shared references may illustrate other separate models.

SPI transmitter, SPI interface

SPI

SPI Signal Extension Transmitter / Receiver

SPI signal extension transmitter (SPI transmitter) converts SPI (TTL) signal input to differential signal output.
SPI signal extension receiver (SPI interface) converts differential signal inputs to SPI (TTL) signal outputs.
Use with SPI controller to extend SPI signal transmission, distance up to 120 metres.



CE RoHS

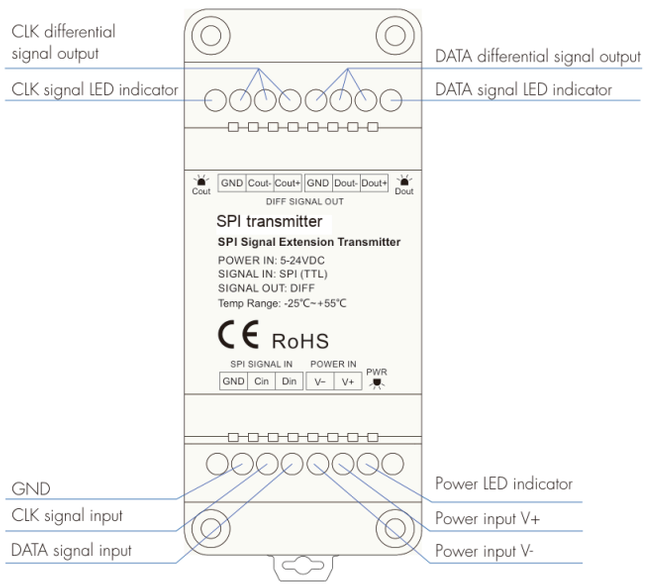
Technical Parameters

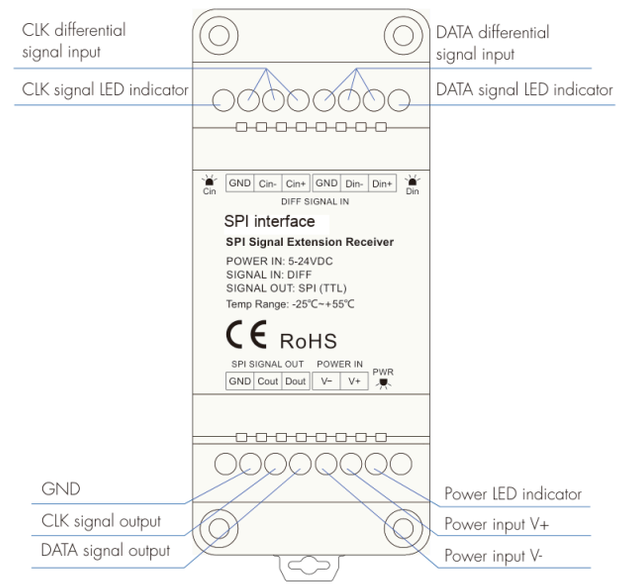
Input and Output	
Input voltage	5-24VDC
Input signal	SPI transmitter: SPI/TTL (DATA+CLK) SPI interface: Two differential signal
Output signal	SPI transmitter: Two differential signal SPI interface: SPI/TTL (DATA+CLK)
Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity

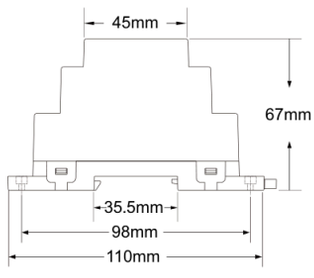
Environment	
Operation temperature	Ta: -25 °C ~ +55 °C
Rating	IP20
Package	
Size	L120 x W78 x H55mm
Gross weight	0.125kg

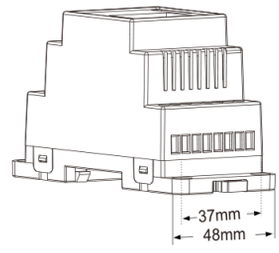
Safety and EMC	
EMC standard	EN IEC 55015 EN IEC 61547
Safety standard	EN 61347-1/-2 EN 62493
Certification	CE RoHS

Mechanical Structures and Installations





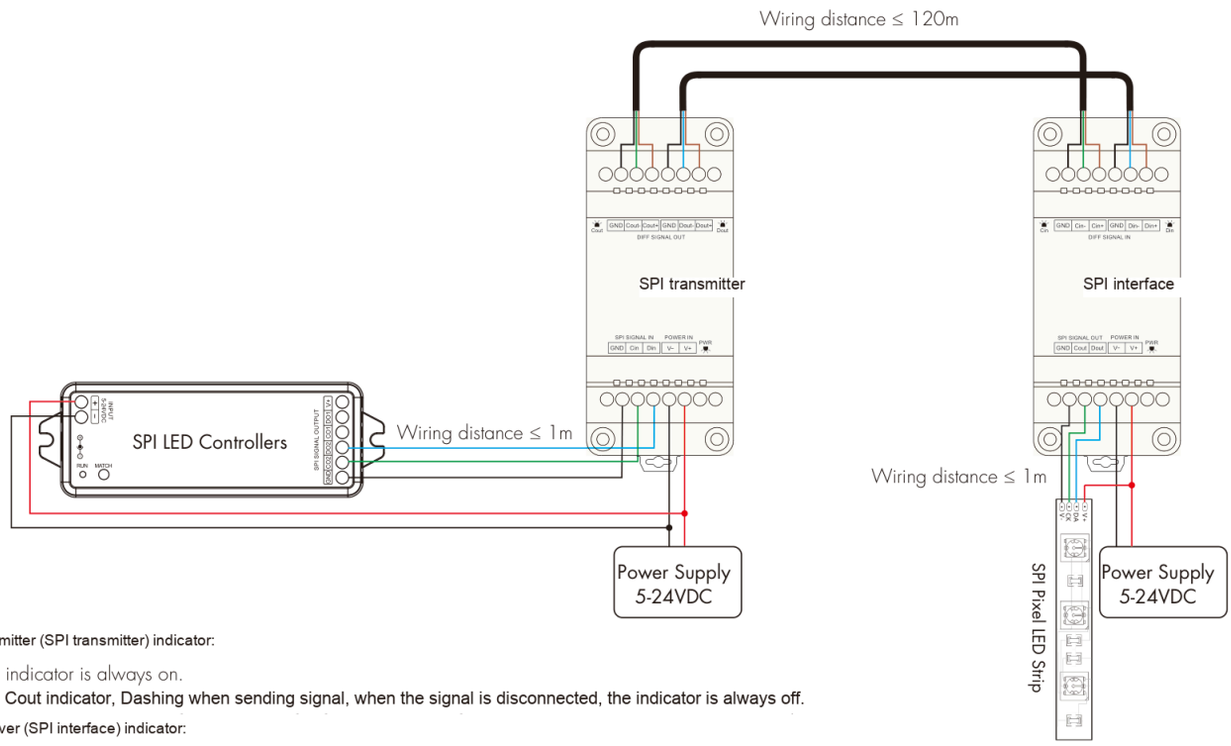






DIN Rail Mounting Size:
TS-35/7.5 or TS-35/15

Wiring Diagram



Transmitter (SPI transmitter) indicator:

PWR indicator is always on.

Dout, Cout indicator, Dashing when sending signal, when the signal is disconnected, the indicator is always off.

Receiver (SPI interface) indicator:

PWR indicator is always on.

Din,Cin indicator, flashing when receiving signal, when the signal is disconnected, the indicator is always on.

Note:

1. **SPI transmitter/SPI interface supports 2 sets of differential signals transmission.**

   If the SPI LED pixel strip is in single-wire control mode, only one set of differential ports need to be connected.

2. The signal lines (DATA, CLK) should be installed at a distance of ≥15cm from strong electrical power (100-240VAC) lines to avoid the creation of magnetic fields that may interfere with the transmission of signals.
3. Signal transmission distance and the use of wire and environment related, if the use of complex environment and interference, recommended the use of shielded twisted pair cable or super category 5 cable, can effectively reduce electromagnetic interference, to ensure the stability of signal transmission.