PHILIPS

Tunable White Systems

FlexTune

Quick Installation Guide

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June 2021

Content

Introduction

Philips FlexTune offers a complete, easy-to-install, and future-proof Tunable White System. This Quick Installation Guide explains the basics and helps you to get up-and-running. For full explanation, several in-detail technical documents can be downloaded from our website (see page 11)

The FlexTune Building Blocks

A Philips FlexTune System consists of at least three components:

1. A Philips Xitanium FlexTune driver
2. A Tunable White (TW) module, for instance a Philips Fortimo FlexTune module
3. A TW control system, complying to the DALI 209 Standard.
    a. Wireless: A TW-compatible node in combination with commissioning app (e.g. Philips EasyAir SNS210 MC and the Philips field app MC) and a compatible wireless switch
    b. Wired: A DALI 209 TW control module
    c. Touch & Dim (TD): This feature is based on applying momentary mains voltage by means of two momentary push buttons to the SR-DA interface. These push buttons can be used to turn on/off and dim up/down the light (push button 1) and to change the color temperature (push button 2)

To this basic system, additional components such as additional (wireless) switches and various types of sensors can be added. The number of drivers, modules, and additional components, as well as the complexity of the control system is virtually unlimited, and can be designed according to your requirements.

Note:
By factory default this SR bus power supply (SR PSU) is enabled, and ready to be used with an external control device. It can be disabled/re-enabled with MultiOne configuration tools and software.

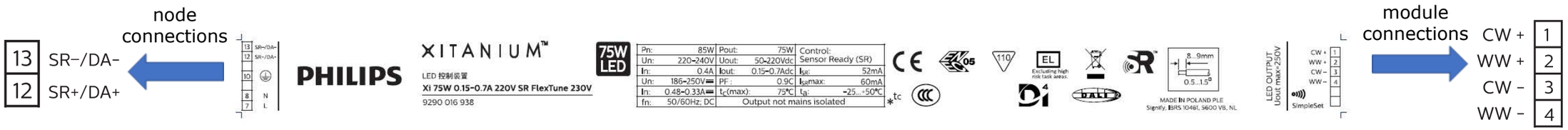
The driver SR PSU must be disabled in case:
1. The drivers are used in a wired DALI network.
2. The Touch and Dim feature is used.

Note that the SR PSU must be disabled on individual driver level before installation in a system.

How to build a wireless TW-System

1. Configure the driver
   Make sure that driver settings match the properties of the modules. These settings can be accessed via SimpleSet using MultiOne software and a proper NFC-tool. The driver current (AOC) has to be set according to your requirements.
   More in-detail information of driver configuration via MultiOne can be found in the design-in guides mentioned on page 11.

2. Connect the building blocks:
   a. Connect the module to the driver, this usually requires four wires per module. Pay attention to the labels printed close to the connectors of both module and driver. Example: CW+ stands for Cool White plus. Connect this pin of the connector of the module to the corresponding pin of the connector of the driver.
   b. Connect the node to the driver, this is a two-wire connection to the SR-pins of the driver (see picture below). For the EasyAir SNS210 MC, plus and minus are interchangeable. For other nodes, check if the plus connection of the node must be connected to the SR+ pin of the driver.



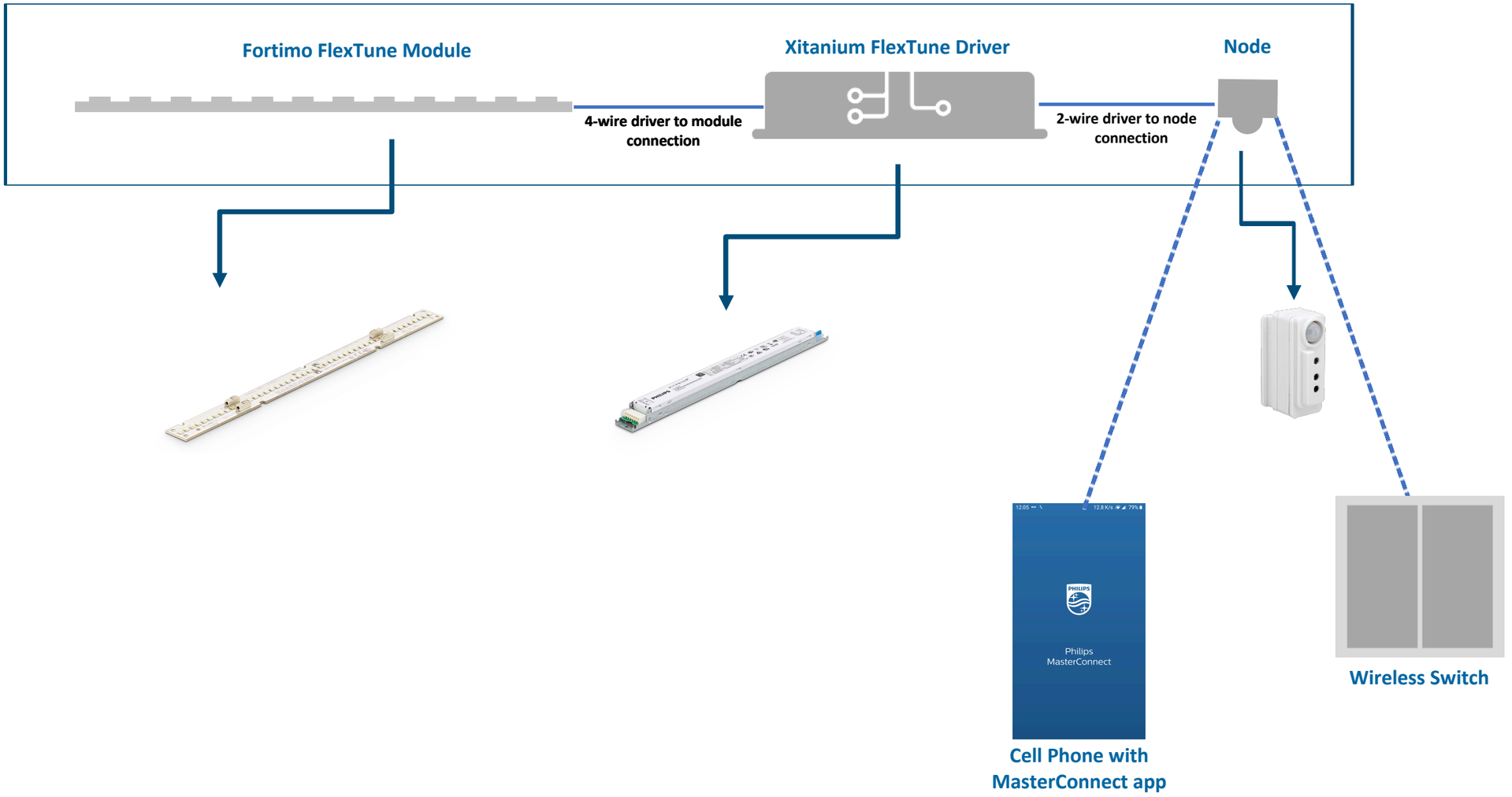
3. Install the commissioning app, e.g. Philips field app MC.

4. Switch on the system and start the app.

5. Commission the switch (and other components you want to add) with the app.

6. Optionally: Use the app to create Zones and Scenes according to your wishes

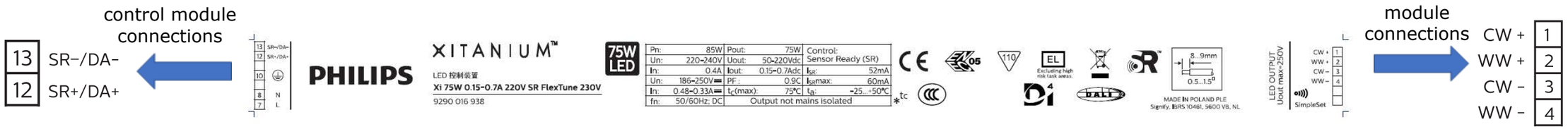
Basics of a Wireless TW-System



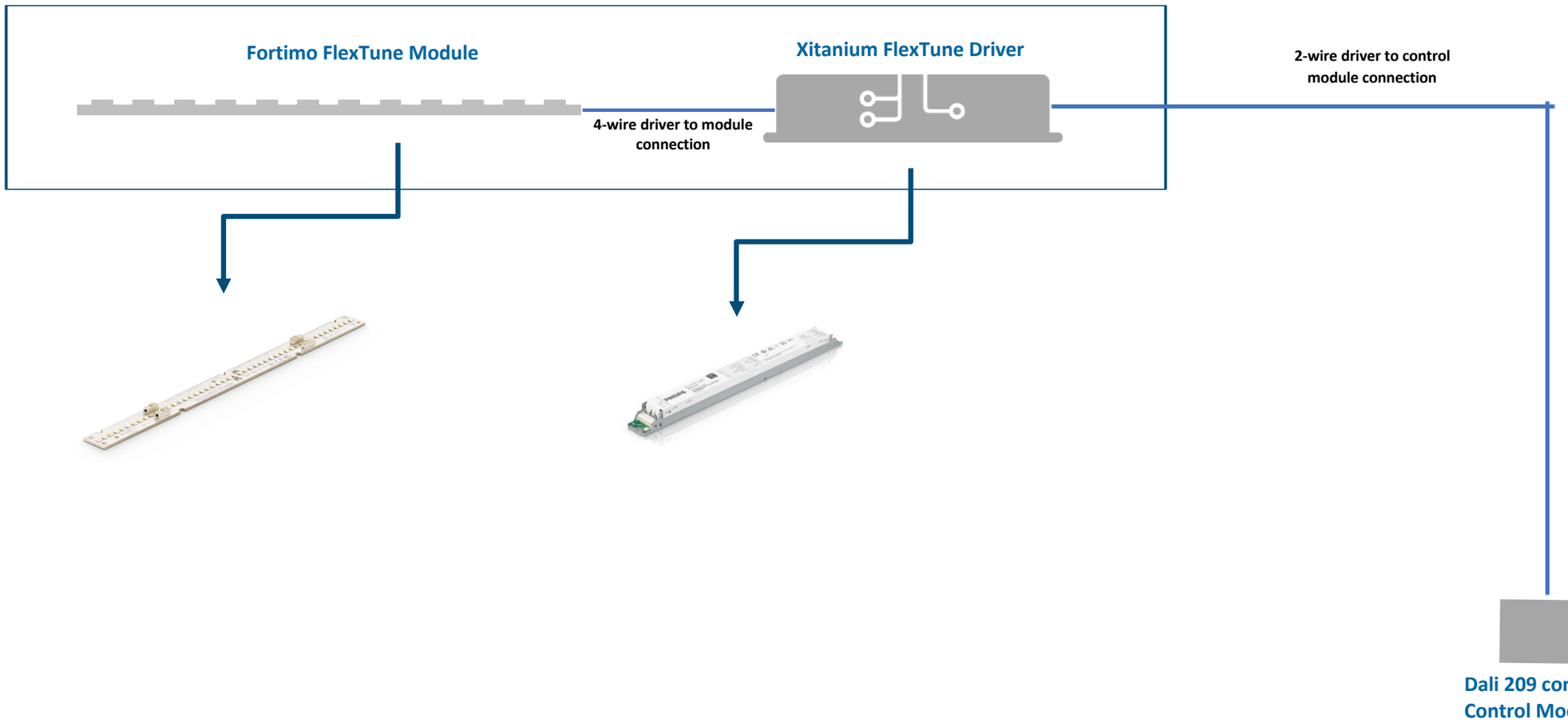
How to build a wired TW-System

1. Configure the driver
   Make sure that driver settings match the properties of the modules. These settings can be accessed via SimpleSet using MultiOne software and a proper NFC-tool. The driver current (AOC) has to be set according to your requirements.
   More in-detail information of driver configuration via MultiOne can be found in the design-in guides mentioned on page 11.

2. Connect the building blocks:
   a. Connect the module to the driver, this usually requires four wires per module. Pay attention to the labels printed close to the connectors of both module and driver. Example: CW+ stands for Cool White plus. Connect this pin of the connector of the module to the corresponding pin of the connector of the driver.
   b. Connect the DALI 209 control module to the driver, this is a two-wire connection to the SR-pins of the driver. The plus connection of the control module must be connected to the SR+ pin of the driver.
   Please note: DALI 207 Controls with dual addessing mode are not supported by the FlexTune drivers.



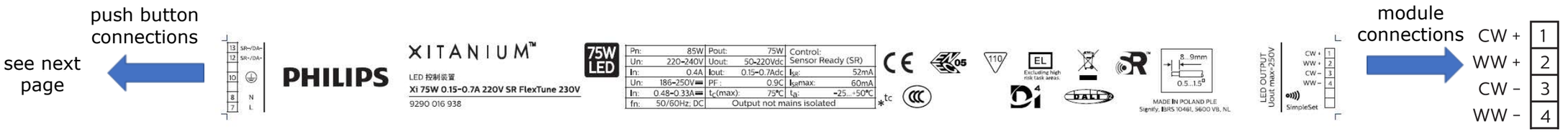
Basics of a Wired TW-System



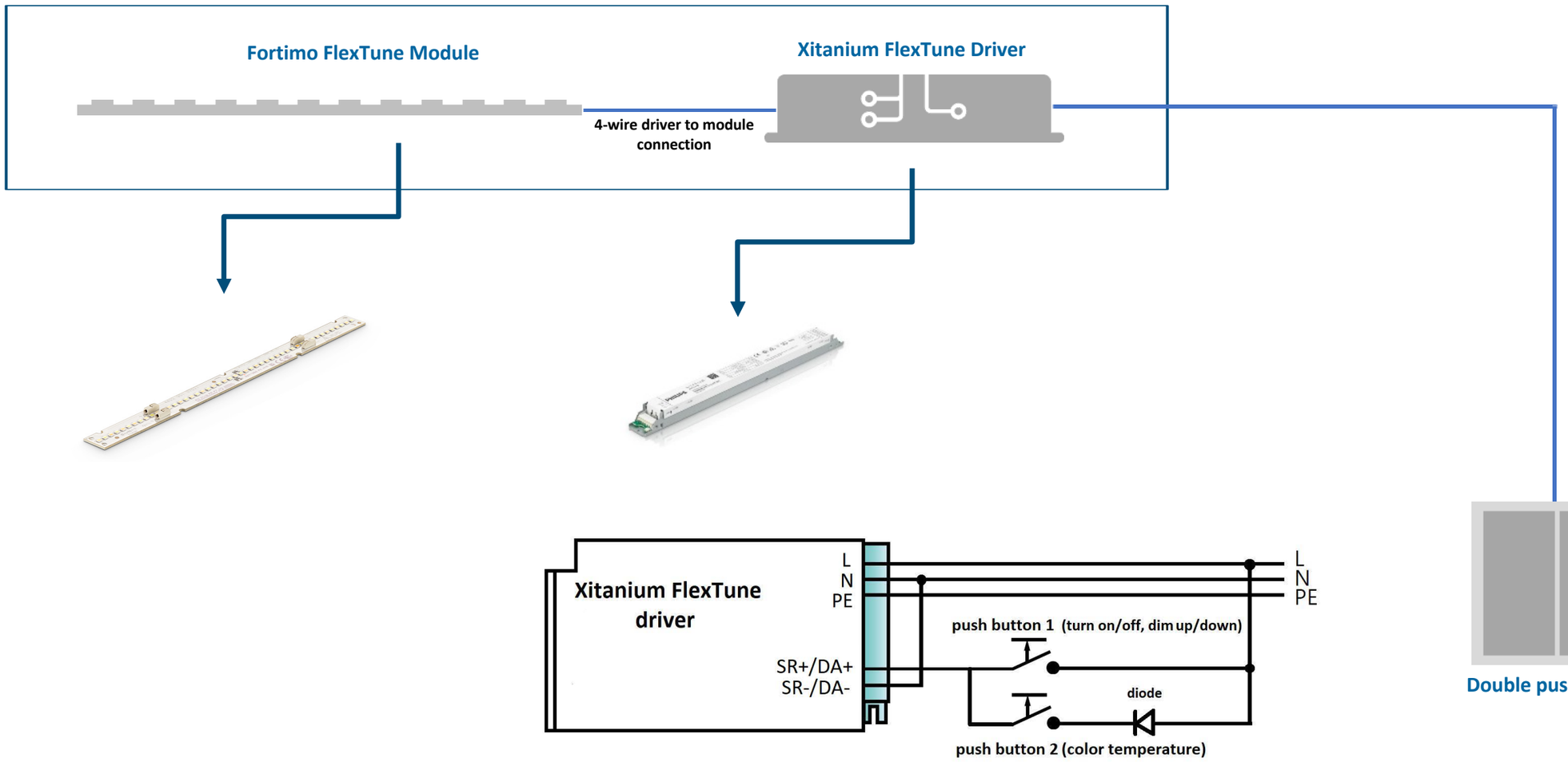
How to build a TW-System with Touch & Dim

1. Configure the driver
   Make sure that driver settings match the properties of the modules. These settings can be accessed via SimpleSet using MultiOne software and a proper NFC-tool. The driver current (AOC) has to be set according to your requirements.
   More in-detail information of driver configuration via MultiOne can be found in the design-in guides mentioned on page 11.

2. Connect the building blocks:
   a. Connect the module to the driver, this usually requires four wires per module. Pay attention to the labels printed close to the connectors of both module and driver. Example: CW+ stands for Cool White plus. Connect this pin of the connector of the module to the corresponding pin of the connector of the driver.
   b. Connect the double push button to the driver and mains, according to the diagram on the next page. More details about Touch & Dim can be found in the *Design-in Guide Xitanium SR-drivers* (see reference on page 11)



Basics of a T&D TW-System



Where to find more in-detail information

1. Drivers:
   Design-in Guide Xitanium SR Drivers

2. Multi-One:
   https://www.lighting.philips.co.uk/oem-emea/products/philips-multione-configurator

3. Modules:
   Design-in Guide Linear Systems - will follow

4. Nodes:
   Design-in Guide EasyAir SNS210 MC

5. App:
   Installer Manual Philips field app MC
   Philips MC control app for end users

6. Switches:
   List of Supported Switches
   Manuals for switch commissioning: Connected Lighting Solutions > Apps and Accessories > Wireless Switches

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