

SW-DIGI-BUS

1 WIRE - 5 KM - 400 LAMPS

www.sw-digi-bus.com

SW - Single Wire

DIGI - Digital

BUS - Bussystem

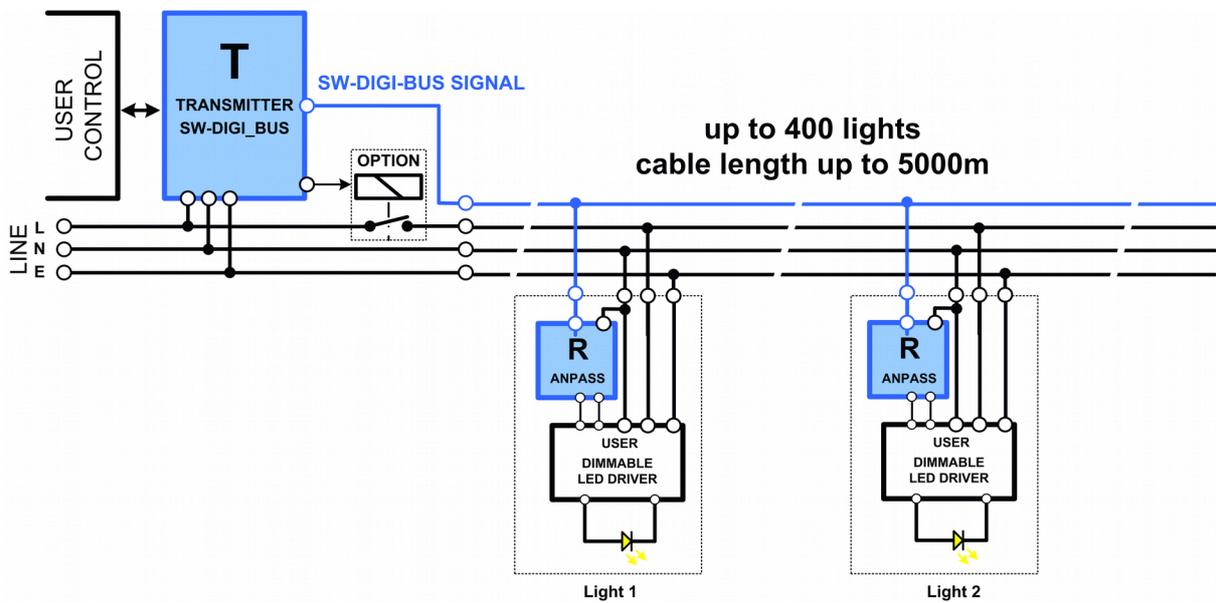


WHAT IS SW-DIGI-BUS

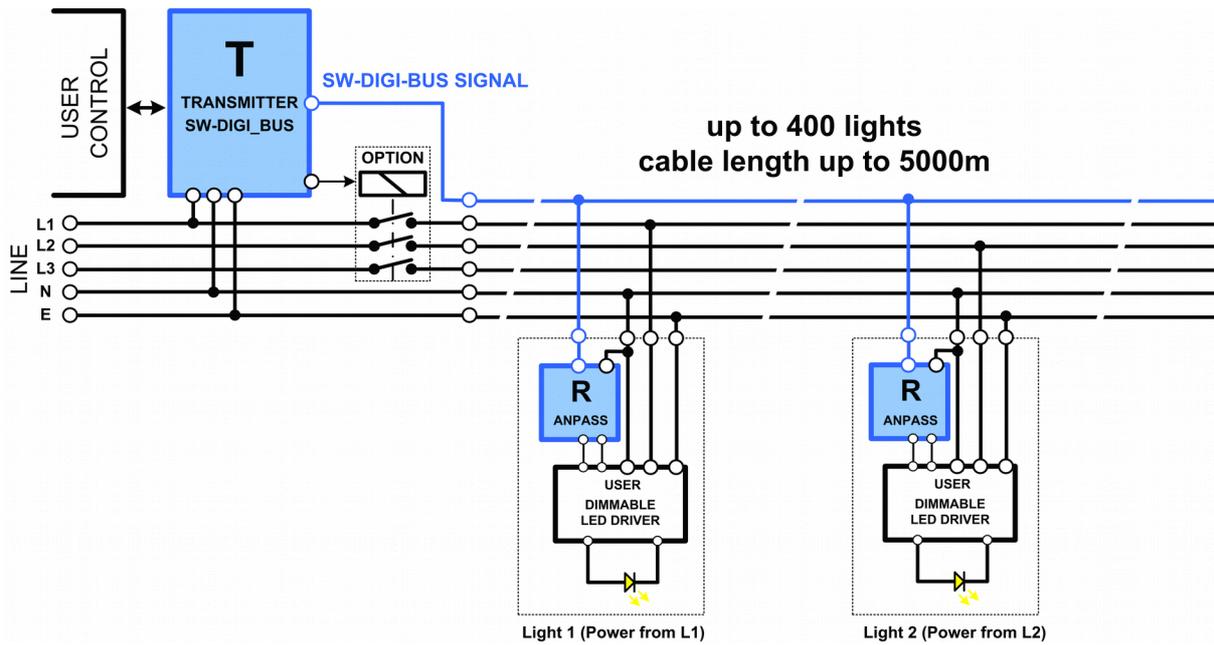
- SW-DIGI-BUS is a data transmission system between a control unit and dimmable lighting fittings.
- System has been designed in order to control the brightness of a large number of lamps at long distances.
- Only continuous brightness control makes it possible to adjust lighting optimally to the current needs, minimize energy consumption and reduce light pollution.

ELEMENTS AND CABLING

Example: Single - phase cabling



Example: Three - phase cabling



SW-DIGI-BUS SYSTEM ELEMENTS

T : SW-DIGI-BUS Transmitter Controller

R : Receiver Dimmable power supply unit setting module for lighting fittings

APPLICATION

- Stepless lighting for streets, sidewalks, bicycle paths, bridges etc.
- Stepless lighting for tunnels, underpasses, and other structures with a high operational safety.
- Stepless lighting for parking lots, public places, playgrounds, and parks
- Stepless lighting for production halls, warehouses, and industrial halls
- Stepless lighting for pitches, stadiums etc.
- Stepless lighting for building facades, airports, railway infrastructure etc.

PRODUCT STRENGTHS

- Controlling the brightness of lamps without amplifiers, transmitters up to several kilometres.
- Controlling a few hundred of lamps with one cable.
- Easy installation with only one additional control wire in the power cable
- Easy maintenance. By means of a typical phase tester, you can locate defects quickly.
- Maximum work safety. In the event of a failure in the system, the lamps switch to the full brightness mode, which guarantees continuous lighting at the facility.
- Possible lamp grouping in order to optimize the brightness of the lighting within special structures (pedestrian crossings, intersections).

PRODUCT CHARACTERISTICS

- The system can control all dimmable power supply units of lighting fittings. Depending on the type, a different setting module is used.
- Autonomous operation. The lighting level adjustable with switches (digital inputs) or a potentiometer.
- Can operate with any programmable controller. 0..10V (analogue) or RS485 input with MODBUS or S-Bus protocol.
- The system is configurable with the use of a computer.
- Different controlling units for various installation methods (DIN rail, 19"rack)
- In the dark mode, the power supply of a lighting fitting and the power supply of the setting module is off. Only the transmitter remains active.

CATALOGUE CARD

Maximum cable length:: 2 to 5 km (depending on the cabling type)

Maximum device number : 100 to 400 (depending on the control unit)

FAMILY

TRANSMITTERS (CONTROLLING UNITS)

- SW-DIGI-BUS CONTROLLER (installation on a DIN rail)
- TIC-15A universal lighting controller (19"rack installation)

RECEIVER (SETTING MODULE)

- At the moment, available setting modules have the following output: PWM, 1..10V, DALI and DSI.

ACCESSORIES

- MINICASE SW-DIGI-BUS (aluminum suitcase with a SW-DIGI-BUS controller for testing lighting fittings)
- USB OPTOINTERACE (connection to a PC computer)