

SW-DIGI-BUS

CONTROLLER

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CONTROLLER SW-DIGI-BUS



APPLICATION

Controlling the brightness of a large number of lamps at long distances.
Transmitter and controller for the SW-DIGI-BUS system.

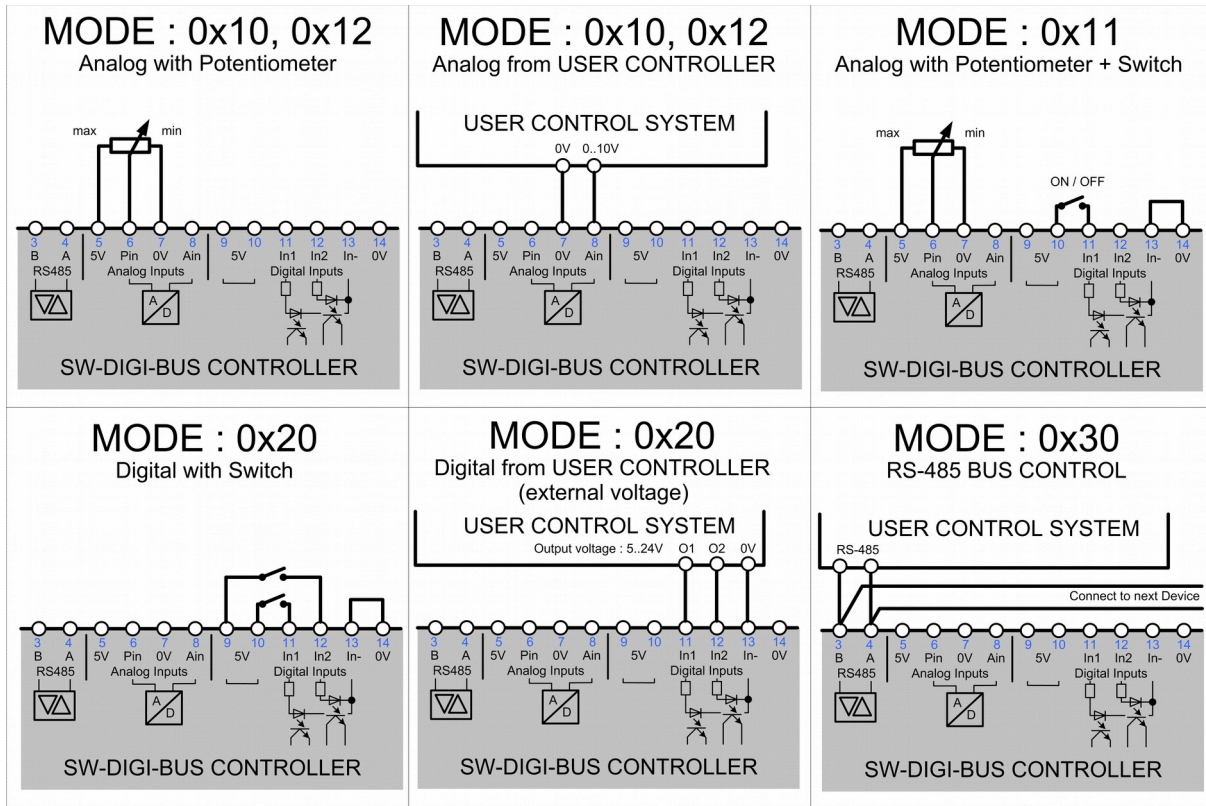
BENEFITS

- A compact and inexpensive device.
- Direct installation on a DIN bus.
- Simple lighting applications can be implemented directly, without an additional controller.
- A device supplied directly from the mains, no additional power supply unit.

SPECIFICATION

- SW-DIGI-BUS signal output.
- A relay output for switching off the power supply of lamps.
- An optically insulated interface for a computer.
- Device configuration software.
- Two electrically insulated inputs for direct two-stage control
- A potentiometer input for direct brightness control.
- An analogue input (0..10V) to control brightness from an external controller.
- An RS-485 input with MODBUS and SAIA S-BUS protocol for a PLC controller or a control terminal.
- Integrated RS-485 termination.
- Integrated all SW-DIGI-BUS special

DEVICE CONFIGURATION

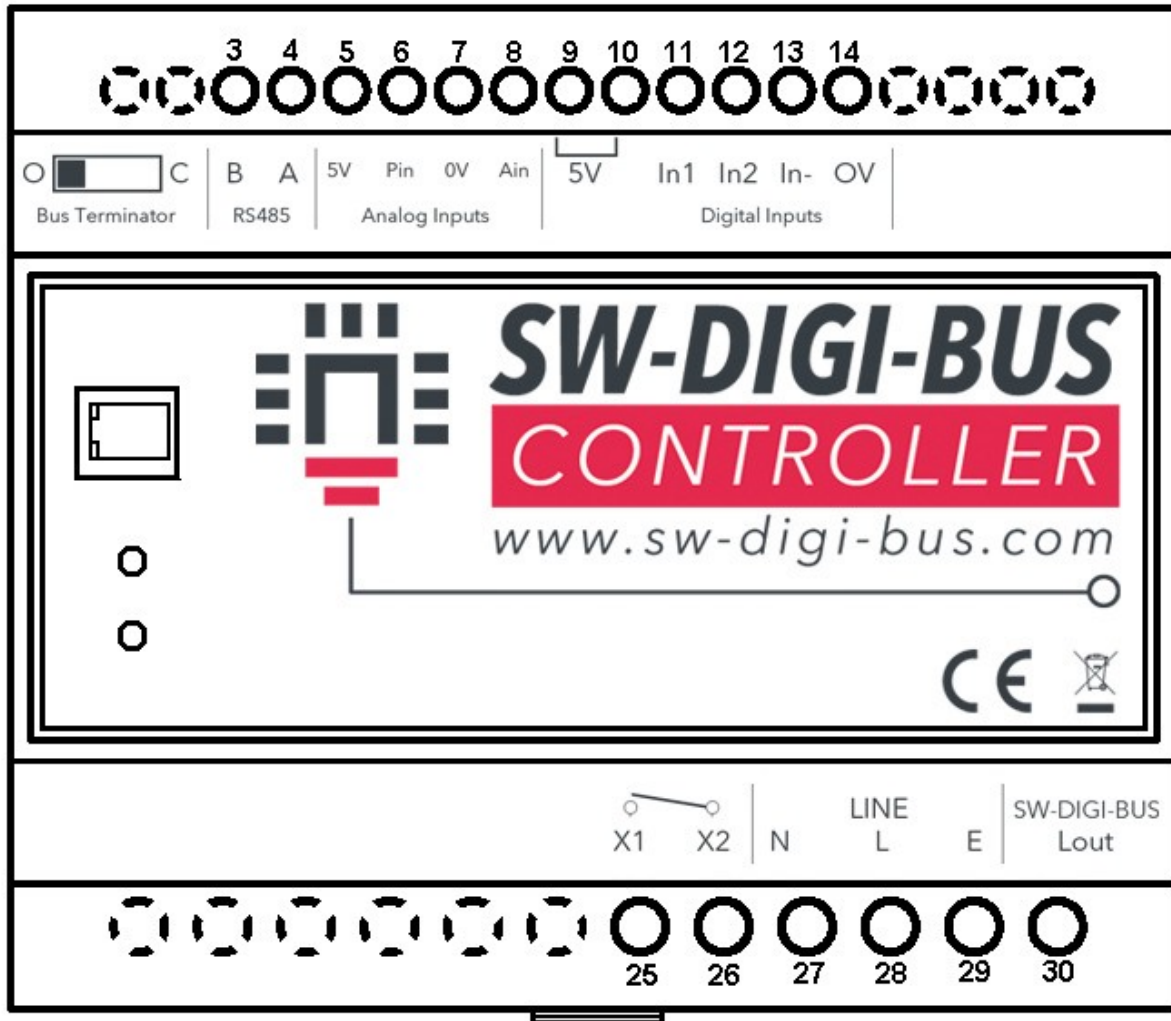


Operation Mode	Input mode	Description
0x10	Analogue (linear) Always on	Lighting is always on. Setting range 1..100%.
0x11	On I Off. With IN1 input	When the IN1 input is active, lighting is on. Setting range 1..100%.
0x12	Analogue > 5% on. < 4% off.	Below 4% lighting is off. Above 5% lighting is on (hysteresis 1%). Setting range 5..100%.
0x20	Digital Inputs IN1, IN2	Two-stage control. The LEVEL_IN1 and LEVEL_IN2 parameters set by means of a PC computer from 1 to 100%. IN1=IN2=off IN1=on -> LEVEL IN1 IN2=on, IN1=off. → LEVEL IN2
0x30	BUS	Controlling through a RS485 bus. Optional selection of a protocol and transmission speed.

TECHNICAL SPECIFICATION

Technical specification	minimum	typical	maximum
Power supply voltage range	200VAC	230 VAC	240VAC
Power supply frequency	49,5 Hz	50 Hz	50,5Hz
Input fuse			<= 3,15 A
SW-DIGI-BUS rated current			3 A
Anpassmodule number	1		100
Transmitter current			3 A
Power consumption		1,7 W	< 2,0 W
Adjustment range	1 %		100%
Setting range resolution (linear)		0,5%	
Potentiometer resistance	1k Ohm		10 k Ohm
Analog input voltage range 0..10V	0V		10V
Analog inputs resistance		147 k Ohm	
Digital input voltage	5V		24V
Temperature range	- 20°C		+70°C
Casing	DIN bus installation Material: ABS UL94V-0		
Length X width.10 height	104,5 x 90 x 65mm		
Protection degree	IP 20		
Weight	~290g		
Electronic circuit	Material: FR4 2-layered system (resistant to vibrations) Varnished printed board		
Clamps	control lines: <=2.5mm ² (PITCH 5mm) feeding lines (230V AC): <=2.5mm ² (PITCH 7,5mm)		
Insulation	EN61558-2-6		
Standards	EN 55015:2013-10 EN 61547:2009 EN 61000-3-2 EN 61000-3-3		

CONNECTION DIAGRAM



ORDERING CODES

No.	Ordering codes	Description
1	DIGIBUCO_B0	SW-DIGI-BUS CONTROLLER Hardware B / Software 1.00