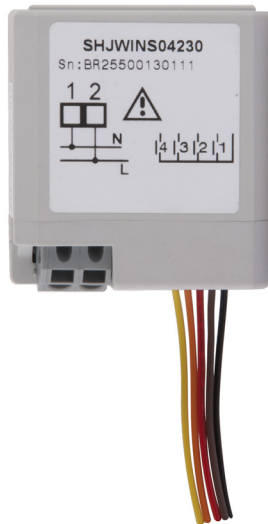


## Wireless input and pulse counter module



### Benefits

- **Fast and easy installation.** In junction/wall box.
- **Easy to use.** Four programmable inputs - normally closed, normally open, pulse counter.
- **Fully intelligent device.** Counted values are stored in a non-volatile memory.
- **Precise measurement.** The pulse counter inputs are S0 class B.
- **High working distance.** The line of sight is 700 m, indoors 10 to 100 m. The range can be extended three times.
- **Scalability.** New modules can be progressively integrated into the system according to the application needs.

### Description

The SHJWINS04 is an input module for counting pulses from energy meters, water meters, gas meters etc, and also includes a people-counting function.

The count values are saved in the non-volatile memory of the module and transferred to the Sx2WEB controller wirelessly.

It is also possible to use the inputs as standard digital inputs. This can be configured via the Sx2WEB tool for each of the inputs.

The compact size of the module makes it possible to fit it in a small junction box or other places where limited space is available.

This module is part of the smart Dupline® concept for building automation applications.

### Applications

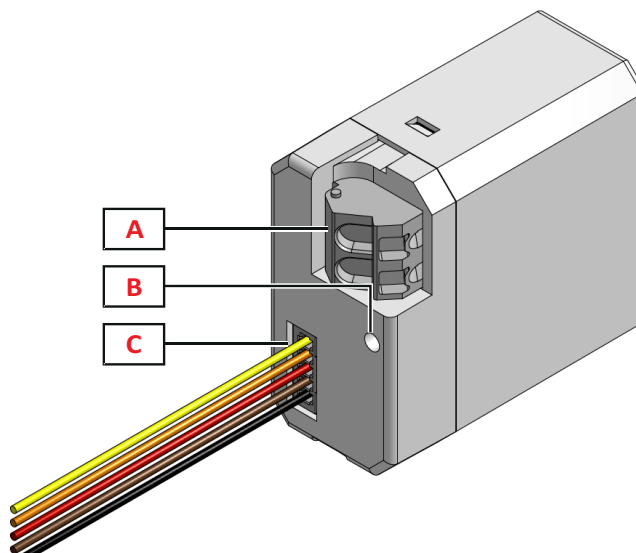
Home and building automation.

### Main features

- Wireless transmission based on IEEE 802.15.4, at 2.4GHz.
- Four programmable inputs
- Counts up to 99999999
- Automatic roll-over when max count is reached
- Option for counter reset

- Option for pre-scaler on count inputs

## Structure

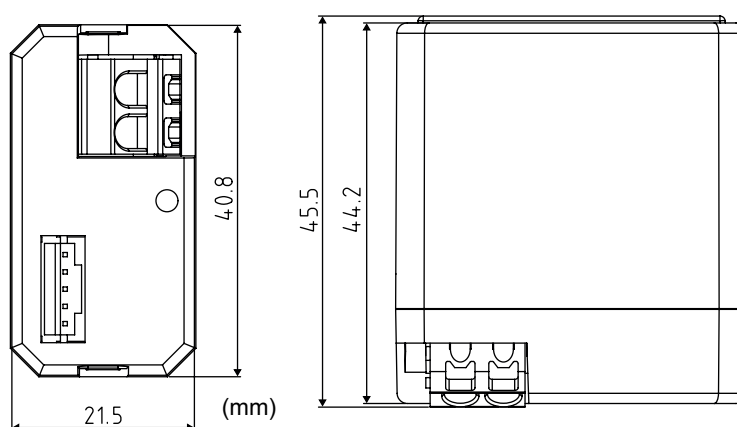


Element	Component	Function
A	Power supply	Power supply terminal (N, L)
B	Information LED	Indicating the following status: Green LED: Power supply Blue LED: WiDup status
C	Inputs	Black: common Brown: input 1 Red: input 2 Orange: input 3 Yellow: input 4

## Features

### General


<b>Material</b>	Latamid 66
<b>Dimensions (L x W x H)</b>	40.8 x 45.5 x 21.5 mm
<b>Weight</b>	80 g
<b>Protection grade</b>	IP 20
<b>Pollution degree</b>	2



### Environmental

<b>Operating temperature</b>	-20° to +50°C (-4° to 122°F)
<b>Storage temperature</b>	-20° to +70°C (-4° to +158°F)
<b>Humidity (non-condensing)</b>	20 to 90% RH

### Compatibility and conformity

<b>Electromagnetic compatibility (EMC) - immunity</b>	EN 61000-6-2
<b>Electromagnetic compatibility (EMC) - emissions</b>	EN 61000-6-3
<b>Approvals</b>	 R&TTE

## Power Supply

<b>Power supply</b>	Overvoltage cat. II (IEC 60664-1, par. 4.3.3.2)
<b>Rated operational voltage</b> SH...230 SH...115	220...240 VAC $\pm 10\%$ 110...120 VAC $\pm 10\%$
<b>Rated impulse voltage</b>	2.5 kV (1.2/50 $\mu$ s)
<b>Rated operational power</b>	3 VA
<b>Power on delay</b>	Typ. 2 s

## WiDup specification

<b>Bus</b>	Wireless Dupline
<b>Frequency</b>	IEEE 802.15.4, @ 2.4 Ghz for Europe, America and China
<b>Diagnostics</b>	1. Field strength 2. Network activities 3. Devices' presence
<b>Network topology</b>	Star with max three wireless repeaters
<b>Antenna</b>	Internal
<b>Transmission power</b>	According to IEEE 802.15.4
<b>Sensitivity</b>	According to IEEE 802.15.4
<b>Number of slave nodes</b>	Up to 250
<b>Transmission range</b>	<700 m in the open air
<b>Addressing</b>	The address assignment is automatic: the controller recognises the module through the SIN (Specific Identification Number) that has to be inserted in the Sx tool.

## Input specifications

<b>Inputs</b>	4 S0 Class B (EN62053-31)
<b>Input current</b>	Min. 2mA - max. 10 mA
<b>Input voltage drop</b>	< 1 V
<b>Cable length</b>	< 3 m
<b>Cable resistance</b>	< 400 Ohms
<b>Input count frequency</b>	< 100 Hz

## Connection Diagrams

