

Load control and monitoring

PowerTag Control



PowerTag C IO 230V



PowerTag C 2DI 230V

PowerTag Control are wireless-communication modules designed specifically for Control and Monitoring applications. They are part of PowerTag System and Wiser System, allowing to turn easily a distribution board into a connected panel.

PowerTag Control is designed to monitor a circuit, notifying wirelessly to the concentrator the information status of a contact (OF, SD, CT or TL position indication...).

Depending on its functionalities, PowerTag Control can operate a load remotely through a contactor, an impulse relay... thanks to wireless control orders from the concentrator.

Refer to the selection guide to select the right module as per the application required.

- Wireless-communication technology simplifies cabling and commissioning operations: no wiring is required for the PowerTag Control modules to communicate with the concentrator.
- System scalability: PowerTag Control modules can be easily installed in new or existing panels at any time with simple commissioning operation.
- PowerTag Control modules are DIN rail mounted.



PowerTag C IO 230V



Acti9 PowerTag Link C

Associated concentrators

For Residential applications



Wiser IP Module



EER31800

For Commercial & Building applications



PowerTag Link



A9XMWD20

PowerTag Link HD



A9XMWD100

For Small Business applications



Acti9 PowerTag Link C



A9XELC10

Refer to the concentrators catalog for more information.

Load control and monitoring

PowerTag Control (cont.)



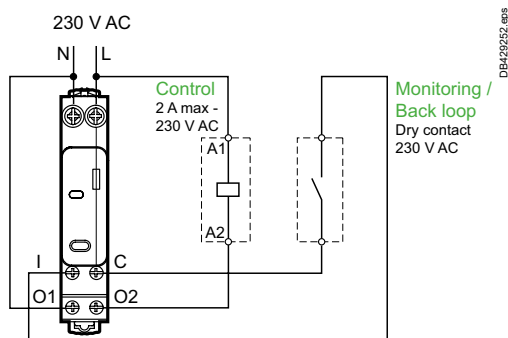
Selection guide

Application	PowerTag C IO 230V		PowerTag C 2DI 230V	
	Control ⁽¹⁾	Monitoring / Back loop ⁽²⁾	Control ⁽¹⁾	Monitoring ⁽²⁾
Digital input 230 V AC	-	1	-	2
Digital output 230 V AC	1	-	-	-
Compatible with	Circuit 2 A Max - 230 V AC: - Contactors 230 V AC - Impulse relays 230 V AC - RCA (cat no A9C7011x) ...	Dry contact 230 V AC: - iACTs - iATLs ...	-	Dry contact 230 V AC: - OF 230 V AC - SD 230 V AC - OF/SD 230 V AC ...
Width in 9-mm modules	2		2	
Catalog numbers	A9XMC1D3		A9XMC2D3	

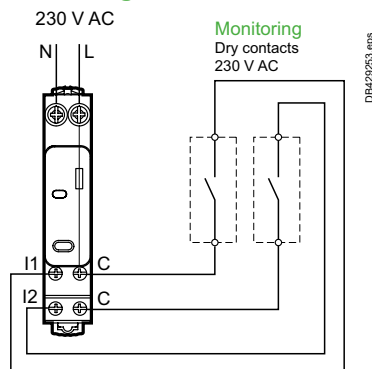
(1) To operate a circuit remotely (2) To notify a status remotely

Principle diagrams

PowerTag C IO 230V

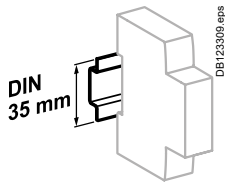


PowerTag C 2DI 230V

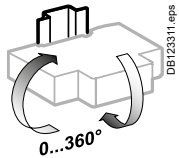


Load control and monitoring

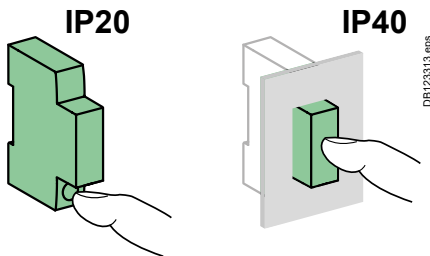
PowerTag Control (cont.)



Clip on DIN rail 35 mm.



Indifferent position of installation.



Technical characteristics

Main characteristics

Power supply	230 V AC $\pm$ 20%
Frequency	50/60 Hz
Maximum consumption	IO $\leq$ 2 VA
	2DI $\leq$ 3 VA
Operating temperature	-25°C to +60°C
Storage temperature	-40°C to +85°C
Relative humidity (60068-2-78)	93 % at 40°C
Overvoltage category	As per IEC 61010-1 Cat. III
Altitude	$\leq$ 2000 m
Pollution degree	3
Degree of protection according to IEC 60529	Front face IP40
	Casing IP20
	IK 05

Characteristics of inputs and outputs

Digital input

Type	230 V AC, dry contact
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Digital output

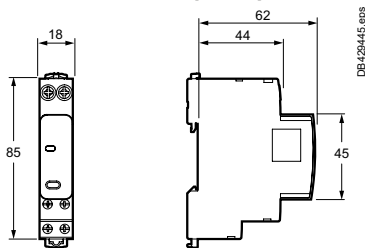
Type	230 V AC, dry contact
Relay type	Normally open or normally closed ⁽³⁾
Applicable voltage on output	230 V AC $\pm$ 20%
Minimum/maximum current on output	10 mA / 2 A
Type of output order	Pulse or latch ⁽³⁾
Pulse length in control mode with impulse relay	Nominal: 300 ms ⁽³⁾ (minimum: 100 ms)

Radio-frequency communication

ISM band 2.4 GHz	2.4 GHz to 2.4835 GHz
Channels	As per IEEE 802.15.4 11 to 26
Isotropic Radiated Power	Equivalent (EIRP) 0 dBm
Channel occupancy	Messages sent
	☒ On event ☒ Periodically (5s nominal)

(3) Setting adjustable

Dimensions (mm)

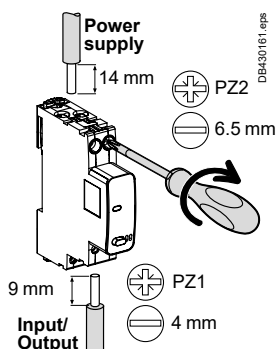


Weight (g)

PowerTag C

PowerTag C IO 230 V	80
PowerTag C 2DI 230 V	75

Connection



Terminals	Tightening torque	Copper cables		
		Rigid	Flexible	Flexible with ferrule
Power supply (Top)	2 N.m	1 to 16 mm ² (AWG: 18...6)	0.5 to 10 mm ² (AWG: 21...8)	-
Input/Output (Bottom)	1 N.m	1x: 1 to 6 mm ² (AWG: 18...10) 2x: 1.5 to 2.5 mm ² (AWG: 16...14)	1x: 0.5 to 4 mm ² (AWG: 21...12) 2x: 1.5 to 2.5 mm ² (AWG: 16...14)	1x: 0.5 to 4 mm ² (AWG: 21...12) 2x: -

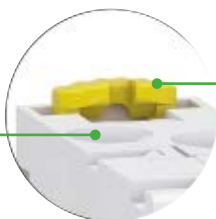
Load control and monitoring

PowerTag Control (cont.)



PowerTag C IO module

- Compatible with horizontal comb busbars 9 mm modules
- Automatic cable guiding in the correct position: terminals with guard

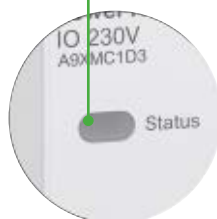


DB430239.eps

- Assembly and disassembly by operating toggle latches at the top and bottom of the products

Status LED

- Provide information about PowerTag C status



DB430240.eps

Logo

- Wireless communication device



A9XMC103_image2.45.eps

- Insulated terminals IP20



DB430241.eps

Push button

- Local output control
- Decommissioning



DB430238.eps

Monitoring / Back loop circuit

- "I" digital input terminal
- "C" common powered terminal 230 V AC

Control circuit

- Logical output relay
- "O" output terminals 230 V AC - 2 A max.

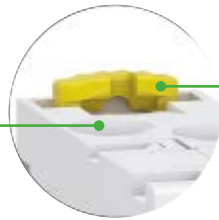
Load control and monitoring

PowerTag Control (cont.)



PowerTag C 2DI module

- Compatible with horizontal comb busbars 9 mm modules
- Automatic cable guiding in the correct position: terminals with guard

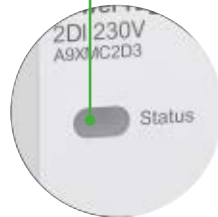


DB430243.eps

- Assembly and disassembly by operating toggle latches at the top and bottom of the products

Status LED

- Provide information about PowerTag C status



DB430244.eps

Logo

- Wireless communication device



A9XMC2D3_image2.45.eps

- Insulated terminals IP20



DB430245.eps

Flush mounted push button

- Decommissioning



DB430242.eps

Monitoring circuits

- "I" digital input terminals
- "C" common powered terminals 230 V AC

Load control and monitoring

PowerTag Control (cont.)



1.1	22/01/2019	Remove Acti9 text and switch Control and Monitoring in Selection guide	I. Flaubert
1.0	27/11/2018	Creation	Sonovision
Indice	Date	Modification	Name