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УСТРОЙСТВА БЕСПРОВОДНЫЕ

Техническое описание на модули беспроводного ввода/вывода WDI100, WDIO100



PRODUCT-DETAILS

WDIO100-CON-FBP

WDIO100-CON-FBP, Wirel.IO Modul, config.



General Information

Extended Product Type	WDIO100-CON-FBP
Product ID	1SAF960300R2000
ABB Type Designation	WDIO100-CON-FBP
Catalog Description	WDIO100-CON-FBP, Wirel.IO Modul, config.
Long Description	WDIO100-CON-FBP, Wirel.IO Modul, config.

Additional Information

ABB Type Designation	WDIO100-CON-FBP
CN8	85176990
Country of Origin	Germany (DE) Norway (NO)
Customs Tariff Number	85176990
Data Sheet, Technical Information	2CDC171004D0204
Declaration of Conformity - CE	1SAD938501-0069
Environmental Information	1SAA952008-2401
Frame Size	Spare_Parts
Gross Weight	0.43 kg
Instructions and Manuals	2CDC171012D0206

Invoice Description	WDIO100-CON-FBP, Wirel.IO Modul, config.
Made To Order	No
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Product Main Type	WDIO100
Product Name	Wireless Input / Output Module
Product Net Depth / Length	120 mm
Product Net Height	121 mm
Product Net Weight	0.41 kg
Product Net Width	80 mm
Product Type	PLC-Wireless
Quote Only	No
Replaced Product ID (OLD)	1SAF960300R1000 1SAF900300R0001
Selling Unit of Measure	piece
Short Description	WDIO100-CON-FBP, Wirel.IO Modul, config.
Stocked At (Warehouses)	Menden, Germany
Two Speed Motor	No
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Categories

PLC Automation → Legacy products → Wireless devices → Wireless input/output modules



Input/Output Module WDIO100

Technical data


Number of I/O devices	configurable: "WDI": 120 digital inputs for wireless position sensors "WDX": 56 digital inputs for wireless position sensors and 7 wireless I/O pads (WIOP100) 4 device connections (Mappings) "WDP": 13 wireless I/O pads (WIOP100) 4 device connections (Mappings)
Transmitter	1mW, 1MHz bandwidth, frequency hopping
Frequency band (communication)	2.4 GHz ISM band
Frequency / antenna switching	Every 2 ms - frequency hopping (with different frequency sequences for up to 60 devices) - switching between transmitting and receiving antenna
Latency (99.9 %)	20 ms (max. 34 ms) until the signal is available on the fieldbus 7 ms (max. 18ms) in Mapping mode (pin - pin) independent of the number of devices and events
Error rate (telegram max. 34 ms)	10^{-9} (in typical environment)
Range of transmission (of the antenna)	5 -10 m (typical 15 m)
Max. number of input modules per manufacturing cell	3 (without change of typ. latency; more are possible)
Operating display	- LCD display, two lines of 16 characters each - 4 foil switches
Electrical connections	- 2 coaxial sockets: AT100 antennas sockets Interface to ABB F - 11 screw terminals: 24 V DC supply (if used for looping through, not more than 1 A is allowed)
Degree of protection acc. to IEC 60529	IP 20
Supply voltage	24 V DC (+20 %, -15 %), ripple < 5 %
Power consumption	15 W max.
Operating temperature	0 ... +50 °C
Storage temperature	-25 ... +70 °C
Permissible humidity during operation	+50 ... +95 %, non-condensing
Permissible shock and vibration stress according to EN 61131-2	Shock $b \leq 15$ g, $T < 11$ ms Frequency range $10 < f < 150$ Hz, < 1 g
Mounting	- DIN rail according to DIN EN 50022 (positioned in the middle between upper and lower edge of housing) - width: 35 mm - height: 15 mm (lower ones may be usable, if the upper mounting holes are removed) - Mounting holes for screws of up to 4 mm diameter
Dimensions of housing	120 x 120 x 80 mm ²
Dimensions of mounting	see fig. 3: WDIO100, mechanical dimensions
Weight	410 g
Cooling	Natural convection may not be prevented by cable ducts or other devices

Input/Output Module

WDIO100

Technical description

Modifications compared to the predecessors

Type	Device ID (Ordering number)	Modifications compared to the predecessors
WDI100	1SAF 900 300 R0001	-
WDI100	1SAF 900 300 R0001 B	<p>Sensor number on the display 0-119 (instead of 1-120).</p> <p>Signal configuration parameters can be read from the device and also be written to the device.</p> <p>CELL ID from 0-59 (instead of 1-60)</p> <p> After a device without Index B was replaced in an existing installation, please keep in mind the following:</p> <p>If the fieldbus parameter DOWNLOAD function is used, the CELL ID in the PLC parameter must be set to the lower CELLID-Value ¹</p>
WDIO100	1SAF 960 300 R1000	<p>There are 3 selectable configurations available: WDI, WDX and WDP (see page 3)</p> <p>After a WDI100 was replaced with a WDIO100, the desired configuration must be selected (e. g. "WDI").</p>
WDIO100	1SAF 960 300 R2000	Software extension: Mapping mode added to connect (map) signals from one wireless device to another.

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