



V6

Communication Module
WSIX100





Communication Module

WSIX100

Technical Description

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FCC Compliance

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference, and
- 2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications made to this equipment not expressly approved by **ABB STOTZ-KONTAKT GmbH** may void the FCC authorization to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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WSIX100: **1 foil-switch for configuration and diagnosis**
2 LEDs for operation and diagnosis



WSIX 100_3.EPS

Fig. 1: WSIX100

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Purpose and short description

The communication module is connected to the head of an inductive sensor in the same way as a conventional sensor plug. The communication module is identical for all types of sensor heads.

The energy required for the sensor operation and the wireless communication with the input module is supplied to the communication module by an electromagnetic field.

Indicators and operating elements on the front plate

Fig. 2 shows the indicators and operating elements on the front plate.

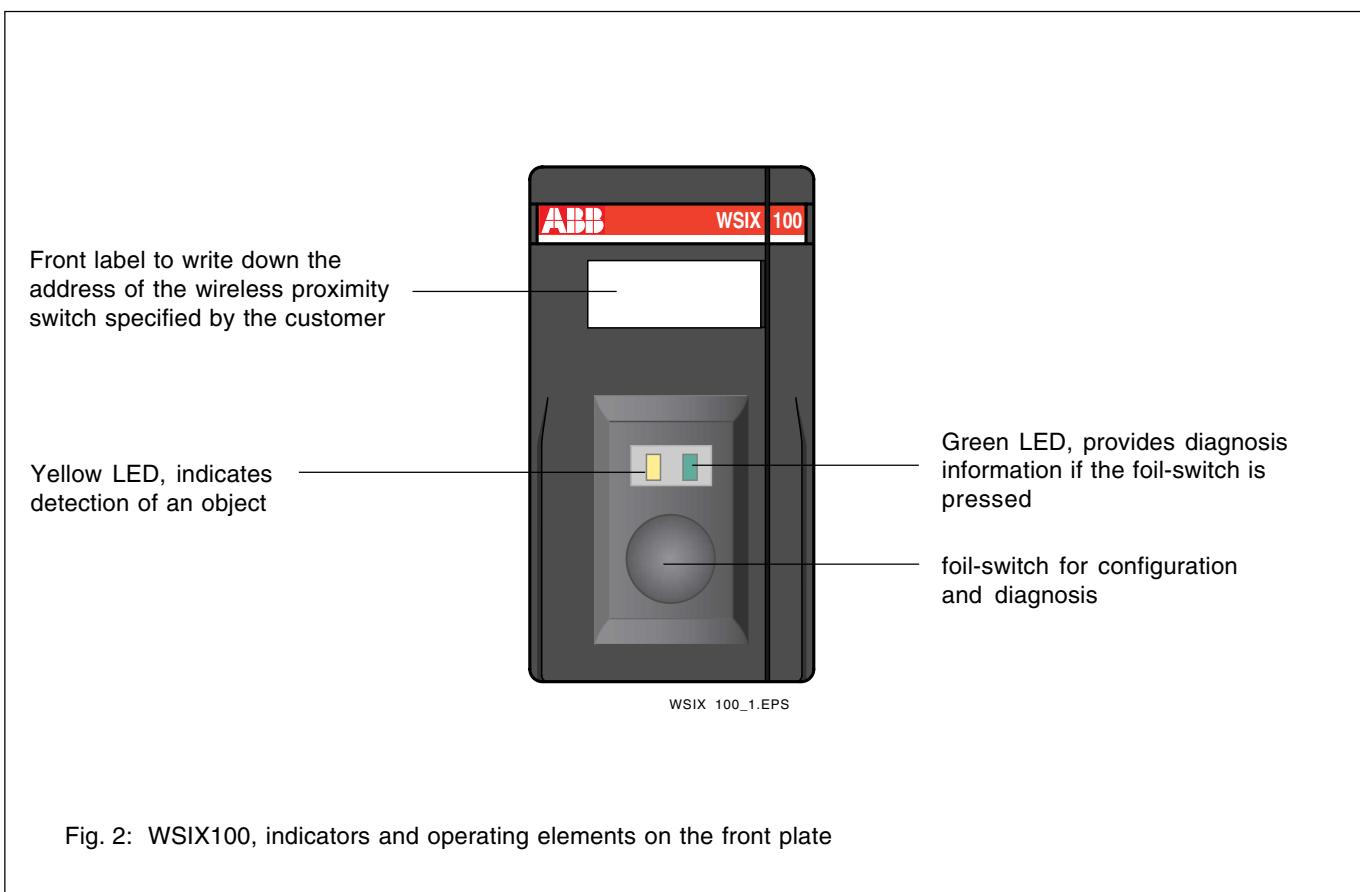


Fig. 2: WSIX100, indicators and operating elements on the front plate

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Side view of WSIX100

Fig. 3 shows the side view of the WSIX100.

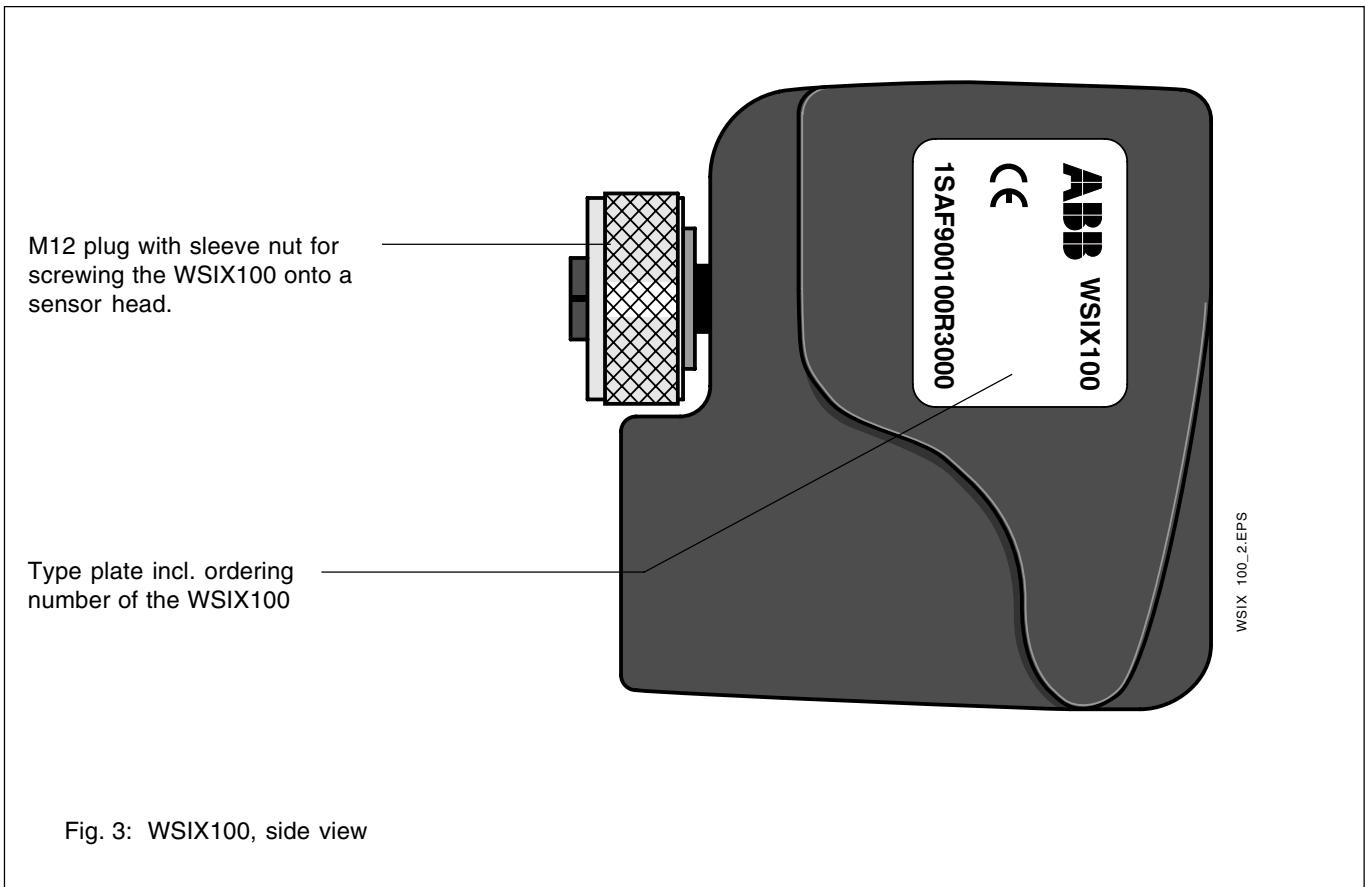


Fig. 3: WSIX100, side view



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Technical data

Switching frequency	2.5 Hz
Latency (99.9 %)	20 ms (max. 34 ms) until the signal is available on the fieldbus
Switching state indication	LED, yellow
Diagnosis indication	LED, green
Operation	1 foil-switch
Operating temperature	-25 ... +55 °C
Storage temperature	-40 ... +70 °C
Permissible shock and vibration stress	Shock $b \leq 30g$, $T \leq 11$ ms
Degree of protection acc. to IEC 60529	IP 67
EMC compatibility	EN 60 947-5-2
Connection	M12 appliance socket with sleeve nut for sensor heads for wireless proximity switches
Material of housing	Bergamit A700 (PA6.6 not reinforced)
Frequency of energy supply	120 kHz
Frequency band (communication)	2.4 GHz ISM band according to ETSI standard ETS 300 328
Max. number of communication modules within one manufacturing cell (3x3x3 m ³)	360
Maximum speed	10 m/s
Error rate	10^{-9}
Range of transmission for communication	5 m
Frequency alternation	Frequency hopping
Address storage	Addresses cannot be lost
Weight	125 g

Ordering data

Type	Designation	Ordering number
WSIX100-B50N	Communication module for wireless proximity switches	1SAF900100R3000

EAN number 4013614365898

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Technical Description



Mechanical dimensions

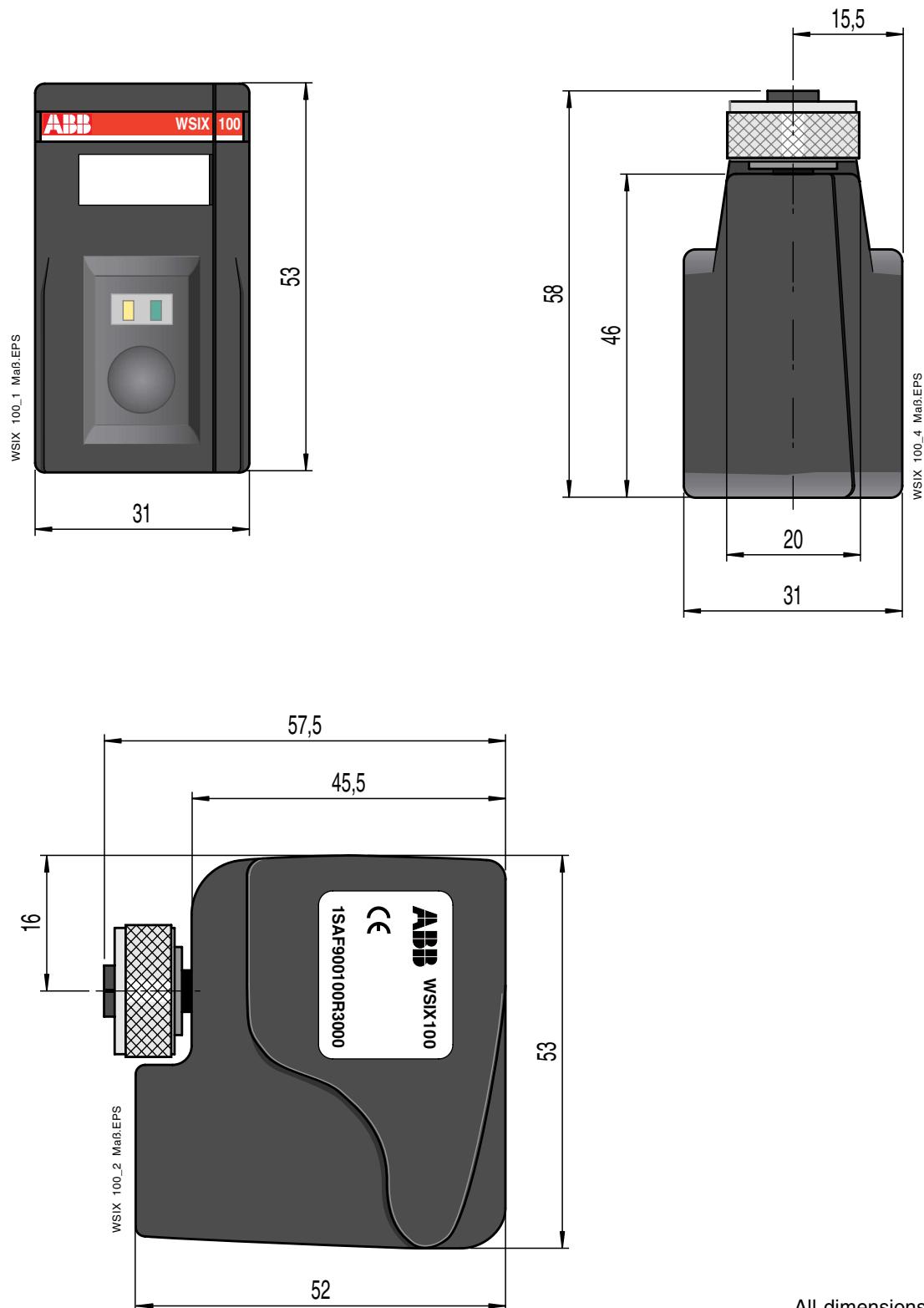


Fig. 4: WSIX100, mechanical dimensions



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