

# ISP-MCLS3-U110S LSN bolt contact for windows

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- ▶ Window bolt contact for closure monitoring
- ▶ VdS class B, EN50131-2-6 Grade 2
- ▶ Tamper switch
- ▶ Head-on flush mounting
- ▶ LSN perimeter protection

For monitoring window closure.

## Certifications and approvals

Region	Certification	
Germany	VdS	G113514 ISP-MCLS3-U110S
Europe	CE	ISP-MCLS3-U110S
	EN50131-2-6 Grade 2	ISP-MCLS3-U110S

## Installation/configuration notes

### Monitoring variants in accordance with VdS

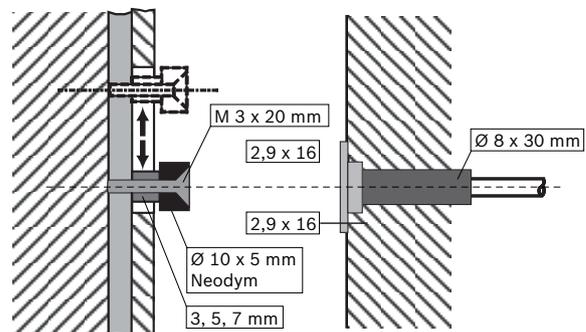
- Closure monitoring cl. C
- Opening monitoring cl. B
- Combined opening and closure monitoring cl. B

### Installation information

- The bolt contact is installed head-on.
- Neither the contact nor the magnets may be installed in ferromagnetic materials.
- The contacts are generally installed in the door or window frames with the magnet in the window or in the door.

- The bolt contact can only switch or report to the intrusion alarm system panel that the window is locked when the mechanical lock is 50% engaged.

## Installation layout



## Connecting LSN contacts

- Each LSN contact is a physical LSN element (1 out of 127 possible per loop).
- The length of LSN contact connection cables must be included when planning the total line length of the LSN loop, as LSN technology is incorporated in these detectors.

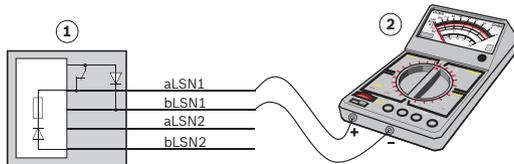
- Passive coupling elements for connecting the connection cables to the installation cable must be positioned as close as possible to the LSN contacts, as a 1-m connection cable with 2-m LSN cable length is included in the calculation of the LSN cable length (LSN is fed into the contacts and back out again).
- Connector boxes (optional) are classified as installation material.

**LSN (Local Security Network)**

In the event of wire breakage or short-circuits, all LSN elements in the LSN loop continue to be monitored. In this case, the system automatically creates two stub lines that continue to monitor from both sides up to the location of the fault.

**Testing LSN contacts**

- Reed switch and microswitch functions can be checked before installation using a high-Ohm multimeter or continuity checker (for diode paths).
- The resistance values are approximate values; a large change in resistance is significant.



- 1 LSN magnetic contact
- 2 High-ohm multimeter  
Contact open: approx. 3 MOhm  
Contact closed: approx. 1 MOhm

Only the intrusion contact can be checked in this way. The tamper switch of the class C magnetic contact can be checked in conjunction with the LSN control panel or using the LSN testing device (software version 3.x onward).

**Parts included**

Type	Qty.	Components
ISP-MCLS3-U110S	1	Magnetic contact incl. installation flange, magnet, magnet cover, spacers, and mounting screws

**Technical specifications**

Switch dimension	Diameter: 8 mm x 30 mm
Magnet	Diameter: 10 mm x 3.6 mm x 5 mm (neodymium)
Reed contacts	Normally open contact
LSN operating voltage	15 to 33 V
Current consumption	0.4 mA
Switch tolerance	$\geq 10^7$
Environmental class	VdS: III – EN: IIIa

Temperature range	-40 °C to +70 °C
Protection category	IP 67
Colors	White (RAL 9003)
Connection cable	LiY(St)Y 4 x 0.22 mm <sup>2</sup>
Cable length	Standard length 4 m; maximum length 25 m
VdS class	
• Combined opening and closure monitoring	B
• Opening monitoring	B
• Closure monitoring	C

**Ordering information**

**ISP-MCLS3-U110S LSN bolt contact for windows**

For monitoring window closure, tamper surveillance, head-on flush mounting

Order number **ISP-MCLS3-U110S**

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