

SMART INTEGRO – THE PERFECT SOLUTION FOR INTEGRATED ACCESS CONTROL

Access control with SmartIntego integrates the advantages of digital locking into complex building services systems.

SmartIntego solutions are always developed in cooperation with an integration partner. This gives the integration partner the opportunity to implement its product philosophy in access control with SimonsVoss.

SimonsVoss SmartIntego components can be incorporated into the integration solution without the need for an additional server or database. They are connected directly to the partner's system via the SmartIntego firmware interface. This interface is the same for all integration partners. It is constantly being further developed and expanded with SimonsVoss paying attention to compatibility with existing integrations. The end customer can choose their tailor-made SmartIntego solution based on their sector and the special application required.

SimonsVoss provides its battery-powered access components for this purpose:

- ✦ The digital locking cylinder AX
- ✦ The SmartHandle door fitting
- ✦ The SmartHandle AX inside fitting
- ✦ The SmartLocker AX cabinet lock
- ✦ The PIN code keypad
- ✦ The padlock AX
- ✦ The gateway that connects SimonsVoss hardware to the integrator's software

SimonsVoss currently has integration partners for the following areas:

- ✦ Office/administration
- ✦ Smart buildings
- ✦ Hospitals
- ✦ Nursing and retirement homes
- ✦ Perimeter surveillance
- ✦ Public transport
- ✦ Student residences
- ✦ From one to over 10,000 doors
- ✦ Connection to CCTV (video surveillance)
- ✦ Connection to time systems
- ✦ Connection to telecommunications systems
- ✦ Connection to room booking systems
- ✦ Connection to IDS (intruder detection systems)



WIRELESS ONLINE – THE ONLINE NETWORK

The integrator software and all locking devices are linked wirelessly – essential for data exchange in real time. Can also be used in a mix with Virtual Card Network.

ADVANTAGES

- // Real-time communication with the locking device
- // Online applications
- // 2-factor opening (PIN and card)
- // Real time door monitoring (door status display)
- // Direct connection to other systems, such as video surveillance, IDS, telecommunications system
- // Live access list in the integrator system
- // Live status of locking devices (wireless signal monitoring/connection, battery status)
- // Security: immediate disabling of lost cards
- // Backup function in the form of a locking device-specific white list
- // Use of a PIN code keypad
- // Use of one input contact and several outputs on one battery-supported component (Node.IO)
- // Encrypted and wireless communication to the locking devices on 868 MHz
- // Integration into existing IT infrastructure possible



In the **online network**, **DoorMonitoring** optionally displays the status of each door, enabling critical areas to be managed efficiently.

DIGITAL LOCKING CYLINDER AX SMART INTEGO

High quality. Durable. Future-proof.

The Digital Cylinder AX is the most powerful cylinder SimonsVoss has ever had. It is also the most user-friendly: An ergonomic yet compact thumb-turn with optical and audible signals makes operation easier.

They have also given priority to high-quality materials. This ensures that the AX Cylinder is robust and durable with very low operating costs at all times.

These are the highlights of Digital Cylinder AX – SmartIntego:

- ❑ No wiring or drilling. Extremely fast, uncomplicated installation without the use of special tools.
- ❑ Flexible thanks to modular design: The Cylinder AX can be quickly and efficiently adapted to any

door thickness thanks to individually adjustable cylinder lengths.

- ❑ Optimum reliability: The SecureElement stores the encrypted system data and forms part of the new AX security architecture. This special chip is an integral part of authentication and protects securely against external attacks.
- ❑ Equipped with core and profile drilling protection as standard.
- ❑ Very long battery life: up to 12 years on stand-by.
- ❑ Protected against extreme weather influences and ingress of dust and water up to protection class IP67.





// FEATURES

- ❑ Flexible thanks to the modular design: The Cylinder AX can be quickly and efficiently adapted to any door thickness thanks to individually adjustable cylinder lengths (EU).
- ❑ Room for beauty: the Cylinder AX not only impresses with its appearance, but also thanks to its pleasant touch with ergonomic thumb-turns.
- ❑ Drilling protection protects the actuator electronics and the cylinder profile (Euro Profile) against external attacks.
- ❑ Maximum data security thanks to the integrated secure element. Very long battery life (up to 12 years on standby).
- ❑ Operational reliability is vital. That is why we have invested in the mechanical and electronic quality and stability of the AX cylinder. The test for long-term functional reliability was passed with 1.5 million operations (or 750,000 test cycles).
- ❑ Made in Germany. A given for us.

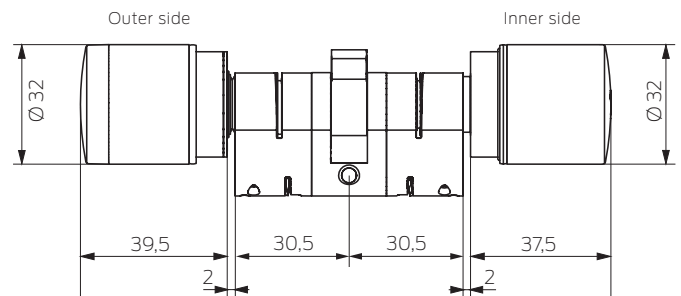
// TECHNICAL DATA

Variants	<ul style="list-style-type: none"> ❑ Euro Profile Cylinder (EU) ❑ Swiss Round Cylinder (SR) ❑ Scandinavian Oval (SO) 	Battery life	Up to 12 years on standby or 100,000 activations (standard)
Door dimensions (variant-dependent)	<ul style="list-style-type: none"> from 30–30 mm (EU / SR) Short cylinder 20–25 mm (EU) ❑ Reader thumb-turn: Plastic cover, black ❑ Rotary thumb-turn: stainless steel ❑ Diameter: 32 mm 	Temperature range	Operating: -25 °C to +65 °C (as per EN 15684)
Operation types	<ul style="list-style-type: none"> ❑ Wireless Online (WO) ❑ Offline: SimonsVoss Virtual Card Network (SVCN) ❑ Offline: OSS Standard Offline (OSS SO) 	Feedback signal	<ul style="list-style-type: none"> ❑ Audible (buzzer), ❑ Visual (LED – green / red)
Reader systems	<ul style="list-style-type: none"> ❑ WO: MIFARE® Classic, MIFARE® DESFire® EV1/EV2/EV3, UID (card serial number) as per ISO 14443 (e.g. MIFARE®, Legic® Advant, HID® SEOS) ❑ VCN: MIFARE® Classic, MIFARE® DESFire® EV1/EV2/EV3 ❑ OSS: MIFARE® DESFire® EV1/EV2/EV3 	IP classification	<ul style="list-style-type: none"> ❑ IP54 (Standard) ❑ IP67 (Option .WP)
Number & type of battery	2 x CR 2450, 3 V lithium	Upgradeable via BLE	Firmware upgradeable
		Integrator-specific values: number of media, time profiles,..	Depends on system integrator
		Storable access events	Up to 1000
		Wireless network 868 MHz	Network-ready with integrated LockNode (WO)
		Certificates	<ul style="list-style-type: none"> ❑ DIN EN 15684:2021 Classification 16B40D3D (standard / VdS) ❑ EN 1627 (RC4)

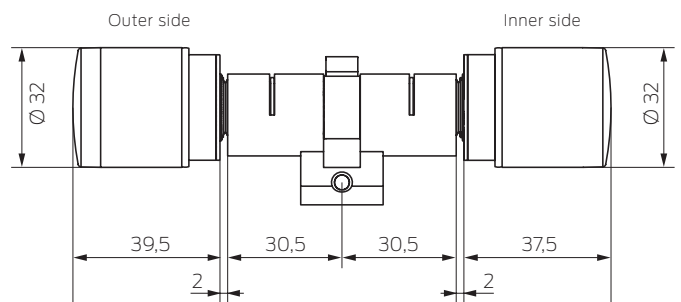
// DIMENSIONS



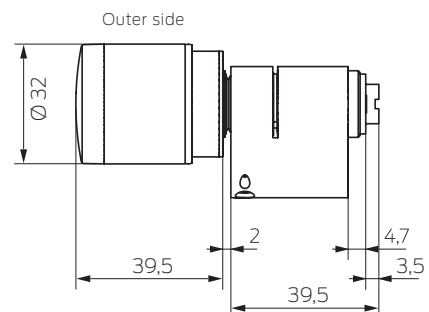
// SMARTINTEGO DIGITAL EURO PROFILE CYLINDER AX



// SMARTINTEGO DIGITAL SWISS ROUND CYLINDER



// SMARTINTEGO DIGITAL SCANDINAVIAN OVAL CYLINDER AX



Measurements indicated in mm

DIGITAL LOCKING CYLINDER SMART INTEGO

Multifunctional and easy to install, even as a retrofit.

The SimonsVoss SmartIntego Digital Locking Cylinder provides service exactly as required at each point throughout the building - in entrance areas and interiors or on doors to a guest room, hallway, laboratory, archive, server room or basement. Its intelligent internal components and wide range of different designs, such as those for anti-panic and fire doors, provide precisely matched solutions for virtually any application.

In addition to a high security standard and remarkable flexibility, the SmartIntego Digital Locking Cylinder is also extremely easy to fit. It is installed in minutes with no need for any wiring or drilling. Standard button cells reliably ensure up to 80,000 locking operations in a wireless online network. An average battery life of five years can be expected in standby mode. In other words, like other SmartIntego components, the locking cylinder is maintenance-free for many years.

The digital locking cylinder matches its surroundings with a beautiful, timeless design available in different versions, such as Euro Profile, Scandinavian Round or Oval, and Swiss Round.





// FEATURES

- ❑ The digital locking cylinder is a true all-rounder. The SimonsVoss SMART INTEGRO Digital Locking Cylinder provides service exactly as required at each point throughout the building – in entrance areas and interiors or on doors to a guest room, hallway, laboratory, archive, server room or basement. Its intelligent internal components and wide range of different designs, such as Comfort, freely rotating, anti-panic and waterproof versions, provide precisely matched solutions for virtually any application.
- ❑ The integrated button cell batteries power up to 80,000 locking operations for WirelessOnline and 50,000 locking operations for the Virtual Card Network. The standby time is up to 5 years.
- ❑ As there is no wiring whatsoever, mounting and replacement is completed in next to no time, whether you are installing a cylinder for the first time or retrofitting one.
- ❑ German-made.
A given for us.

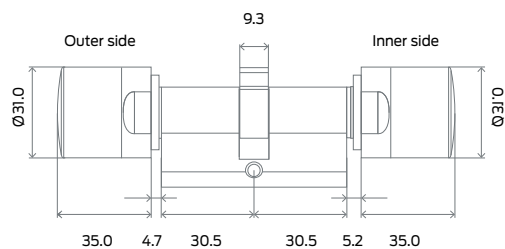
// TECHNICAL DATA

Profiles	<ul style="list-style-type: none"> ❑ Euro profile cylinders ❑ Scandinavian Oval cylinder ❑ Scandinavian Round cylinder 	Battery life	<ul style="list-style-type: none"> ❑ Up to 5 years on standby or 80,000 activations (WirelessOnline) ❑ Up to 5 years on standby or 50,000 activations (Virtual Card Network)
Basic length	30–30 mm (EU)	Temperature range	Operation: - 25 °C to +65 °C Storage: - 35 °C to +50 °C
Total length	Up to max. 140 mm (max. 90 mm on one side) Special lengths on request	Protection rating	IP54 (standard) IP66 (.WP)
Thumb-turns	<ul style="list-style-type: none"> ❑ Stainless steel design Diameter: 31 mm 	Accesses loggable offline	WO: up to 250 if locking device offline VCN: up to 1,000
Reader systems	<ul style="list-style-type: none"> ❑ Wireless online: MIFARE® Classic, MIFARE® DESFire®/EV1/EV2/EV3, UID (card serial number) as per ISO 14443 (e.g. MIFARE®, Legic® Advant, HID® SEOS) ❑ Virtual card network: MIFARE® Classic, MIFARE® DESFire®/EV1/EV2/EV3 	Number of media	Depends on system integrator
Operation types	Online: WirelessOnline (WO) Offline: Virtual Card Network (VCN)	Wireless network 868 MHz	Network-ready with integrated LockNode (WO)
Battery type	CR 2450, 3 V lithium Quantity: 2 x	Can be upgraded	Firmware upgradable
		Certificates	<ul style="list-style-type: none"> ❑ DIN 18252/EN 1303/EN 15684 ❑ SKG *** (for WirelessOnline version with reader on both sides)

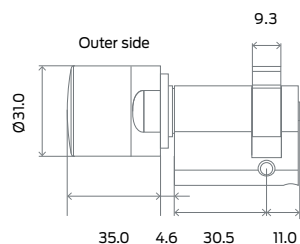
// DIMENSIONS



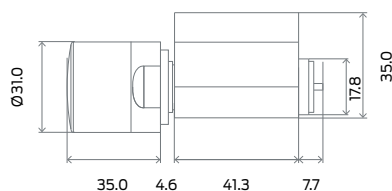
**DIGITAL EURO PROFILE
DOUBLE THUMB-TURN CYLINDER
SMART INTEGØ-COMFORT**



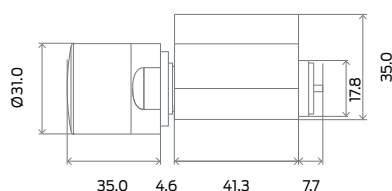
**DIGITAL EURO PROFILE HALF CYLINDER –
SMART INTEGØ**



**DIGITAL SCANDINAVIAN OVAL CYLINDER –
SMART INTEGØ**



**DIGITAL SCANDINAVIAN ROUND CYLINDER –
SMART INTEGØ**



Measurements indicated in mm

SMART INTEGO DIGITAL SMART HANDLE AX

Next Keyless Generation: The intelligent fitting for interior doors

Thanks to its modular design, wealth of variants and innovative functions, SmartIntego SmartHandle AX brings a new level of intelligence, convenience and security to doors.

- ❑ Provide a flexible response to any situation on site: SmartHandle AX can be adapted to the spindle, door thickness and centres distance. The handle itself can be mounted on the left or right. Suitable for metal frame doors and mounting on oval escutcheons. Can be combined with a panic bar.
- ❑ Exceptionally long battery life (up to 180,000 operations in wireless online mode).

- ❑ Can be combined with standard handles by well-known manufacturers.
- ❑ Also available in a version with access control on both sides.
- ❑ Maximum data security thanks to the integrated Secure Element.
- ❑ Operational safety thanks to mechanical and electronic stability. It has successfully completed a durability test of 1 million cycles.





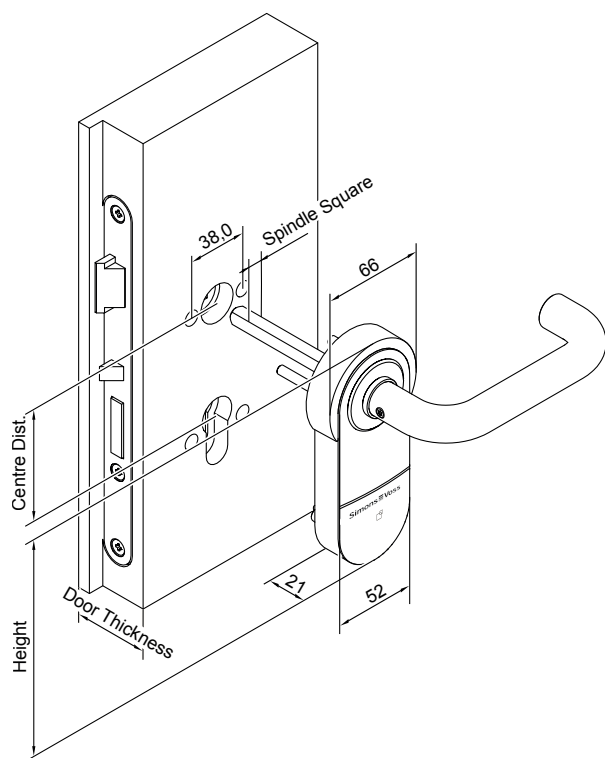
// FEATURES

- ❑ Provide a flexible solution to any situation on site: SmartHandle AX can be adapted to the spindle, door thickness and centres distance. The handle itself can be mounted on the left or right. Suitable for metal frame doors and mounting on oval escutcheons.
- ❑ Room for beauty: with its characteristic, adaptive design, the AX fitting can be combined with standard handles from renowned manufacturers.
- ❑ Operational reliability is decisive. That's why we SimonVoss has invested in mechanical and electronic quality and stability with the AX fitting. SmartHandle AX features extremely precise handle clearance. It has successfully completed a durability test of 1 million cycles.
- ❑ The SmartHandle AX, for example, has a high-precision handle with minimal play.
- ❑ Maximum data security thanks to the integrated Secure Element.
- ❑ Made in Germany.
A given for SimonVoss.

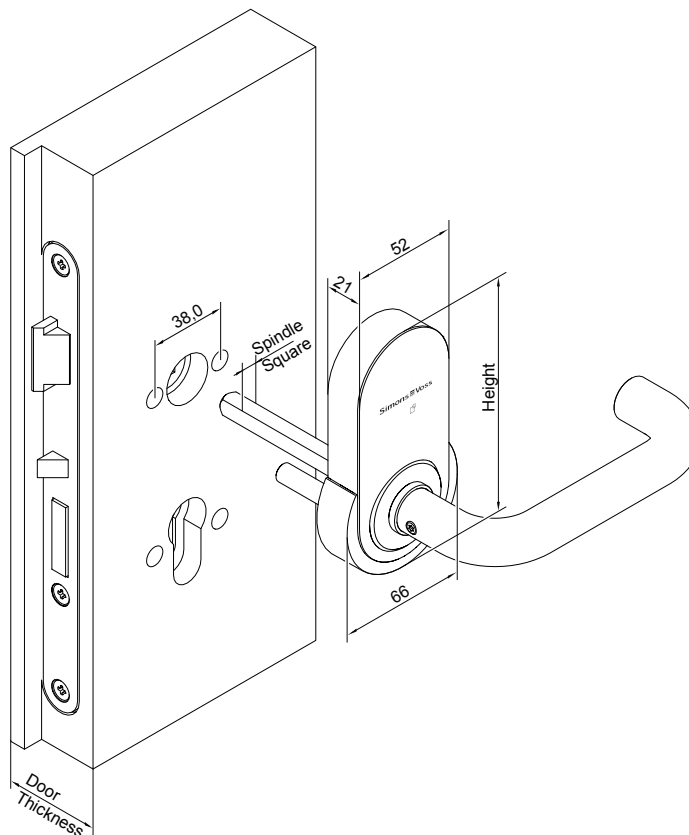
// TECHNICAL DATA

Variantes	<ul style="list-style-type: none"> ❑ Euro Profile cylinder (A) ❑ Swiss Round (B) 	Battery life	Up to 150,000 activations or up to 9 years on stand-by
Door dimension specifications	<ul style="list-style-type: none"> ❑ Door thickness: 38 - 200 mm ❑ Centres distance: 70 - 110 mm ❑ Spindle: 7 8 8.5 9 10 	Offline: SVCN Offline: OSS SO	
Operation types	<ul style="list-style-type: none"> ❑ Wireless Online (WO) ❑ Offline: SimonsVoss Virtual Card Network (SVCN) ❑ Offline: OSS Standard Offline (OSS SO) 	Temperature range	Operational: -25°C to +50 °C
Leseverfahren	<ul style="list-style-type: none"> ❑ WO: MIFARE® Classic, MIFARE® DESFire® EV1/EV2/EV3, UID (card serial number) in accordance with ISO 14443 (e.g. MIFARE®, Legic® Advant, HID® SEOS) ❑ VCN: MIFARE® Classic, MIFARE® DESFire® EV1/EV2/EV3 ❑ OSS: MIFARE® DESFire® EV1/EV2/EV3 	Signalling	<ul style="list-style-type: none"> ❑ Audible (buzzer) ❑ Visual (LED – green/red)
Number & type of battery	4x CR2450 3V lithium	IP classification	40
Battery life Wireless Online(WO)	Up to 180,000 activations. or up to 9 years on stand-by	Upgradeable via BLE	Firmware upgradable
		Integrator-specific values: number of media, time profiles,..	Dependent upon system integrator
		Storable access events	Up to 1000
		Radio network 868 MHz	Directly networked with integrated LockNode (WO)
		Certificates	<ul style="list-style-type: none"> ❑ General building authority approval ❑ DIN EN 1634 ❑ DIN EN 179 ❑ DIN EN 1906 (Grade 4) ❑ DIN EN 1125 ❑ DIN EN 16867 ❑ PAS24

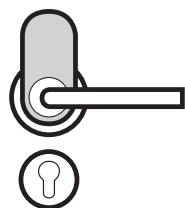
// **SUSPENDED VARIANT**



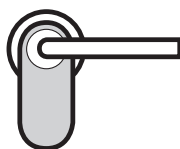
// **STATIONARY VARIANT**



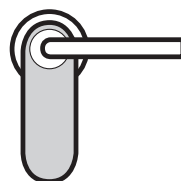
// **VARIANTS**



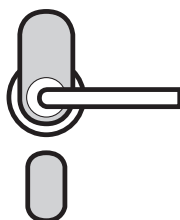
A0 / B0 can be supplied with escutcheon covers with/without Profile Cylinder cut-out
WxHxD:
66 x 120 x 21 mm



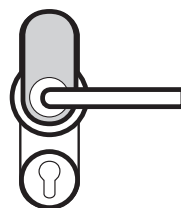
A1 / B1 for mortise lock centres distance: 70-79 mm
WxHxD:
66 x 140 x 21 mm



A2 / B2 for mortise lock centres distance: 70-110 mm
WxHxD:
66 x 174 x 21 mm

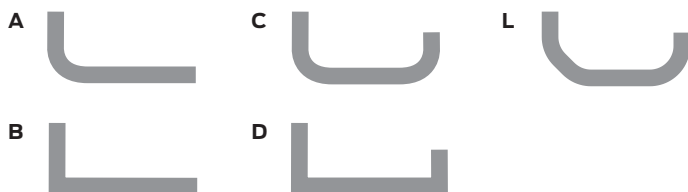


A3 for metal frame doors with oval escutcheons (50 mm hole pattern) – profile width: min. 65 mm
WxHxD:
66 x 120 x 26 mm

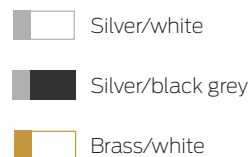


A4 for panic bar adaptation. Observe compatibility.
WxHxD:
66 x 120 x 25 mm

// **HANDLES**



// **FINISHES**



SMART INTEGO DIGITAL SMART HANDLE

The classic for exterior doors.

SmartIntego SmartHandle reliably controls large visitor flows. Waterproof, it can be mounted with a single screw in minutes with no drilling required thanks to the patented snap-in method.

■ Multi-award winning design

With its elegant, multi-award-winning design, the intelligent fitting matches a wide variety of door types in its appearance.

■ Wide range of variants

Can be supplied with different SimonsVoss handle variants and cover widths depending on the application and area of use. Available in various profiles.

■ Increased protection against burglary

SmartHandle conclusively demonstrates its intelligence on doors used by many different visitor groups. As the electronics are located on the inner side of the door, SmartHandle offers exceptional resistance to break-ins.

■ Wireless online door monitoring

On request, restricted access rooms can also be equipped with door monitoring to keep an eye on door statuses.



Intelligent door surveillance with DoorMonitoring

In its DoorMonitoring design, SmartIntego SmartHandle becomes one of the most compact door monitoring systems in the world. Three integrated sensors – in the fastening screw, the deadbolt contact and the internal handle – check the door status and forward it to the access control system in real time. Security-critical information such as “Door open” (01) or “Door closed” (02) or “Door lock locked” (03) or “not locked” thus reliably reach the control centre.

Even exceeded time limits (04) on an open door or a forced break-in are detected and reported. The double locking in the locking device satisfies insurance requirements. As with all SmartIntego SmartHandles, the DoorMonitoring version can be installed in minutes without any drilling or wiring to the door.





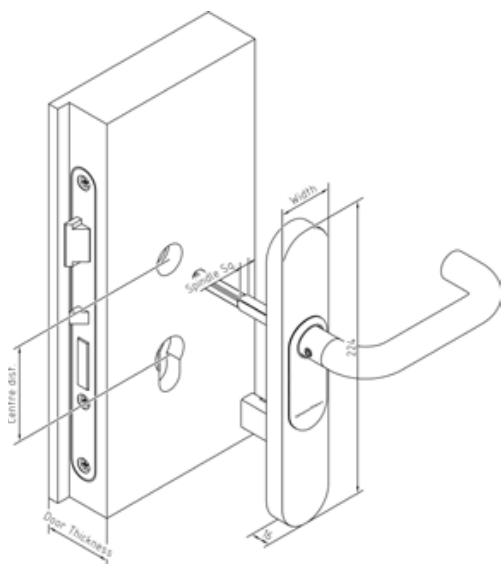
// FEATURES

- ❑ Thanks to drill-free snap-in installation, doors remain undamaged and installation times are dramatically reduced.
- ❑ Suitable for exterior doors as it is weatherproof.
- ❑ Secure, robust design: Increased burglary protection with DIN 18257 (ES1), SKG and PAS24 certifications.
- ❑ In the case of WirelessOnline: option of wireless online door monitoring: sensitive areas can be equipped with DoorMonitoring on request. The cable-free online door monitoring system records, logs and reports all door statuses using sensor control to detect whether doors are open, closed, locked or open too long. It also sounds an alarm in the event of critical events.
- ❑ Award-winning design: SmartHandle has been honoured with the reddot Design Award a number of times.
- ❑ Also available in variants with mechanical secondary locking device.

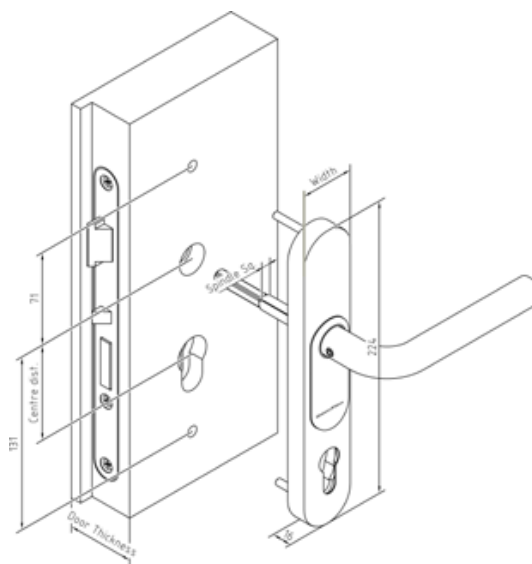
// TECHNICAL DATA

Country variants	<ul style="list-style-type: none"> ❑ Euro profile cylinder ❑ Swiss Round 	Battery life	Up to 80,000 lock operations or up to 5 years on standby (WirelessOnline)
Dimensions for snap-in and conventional installation (WxHxD):	Euro Profile cylinder/Swiss Round <ul style="list-style-type: none"> ❑ Narrow: 41x224x16 mm ❑ Wide: 53x224x16 mm 		Up to 50,000 lock operations or up to 5 years on standby (Virtual Card Network)
Door dimension specifications	<ul style="list-style-type: none"> ❑ Door thickness: 39–100 mm ❑ Centres distance: 70–94 mm ❑ Spindle: 7 8 8.5 9 10 	Temperature range	Operational: -20 °C to +50 °C
Reader systems	<ul style="list-style-type: none"> ❑ Wireless online: (MIFARE® Classic, MIFARE® DESFire®/EV1/EV2/EV3, UID [card serial number] as per ISO 14443 [e.g. MIFARE®, Legic® Advant, HID® SEOS]) ❑ Virtual card network: MIFARE® Classic, MIFARE® DESFire®/EV1/EV2/EV3 	Feedback signals	Audible (buzzer) Visual (blue/red LED)
		Accesses loggable offline	WO: up to 250 if locking device offline VCN: up to 1,000
		Number of credentials which can be managed per SmartHandle	Depends on system integrator
		Wireless network 868 MHz	Network-ready with integrated LockNode (WO)
		Can be upgraded	Firmware upgradable
Operation types	Online: WirelessOnline (WO) Offline: Virtual Card Network (VCN)		
Battery type	2x CR2450, 3 V, lithium		

// **DIMENSIONS FOR SNAP-IN INSTALLATION**

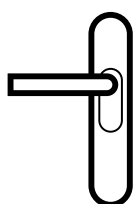


// **DIMENSIONS FOR CONVENTIONAL INSTALLATION WITH MECHANICAL SECONDARY LOCKING DEVICE**

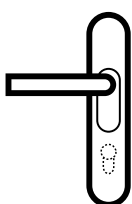


* Available in different widths
Measurements indicated in mm

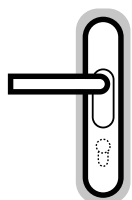
// **VARIANTS**



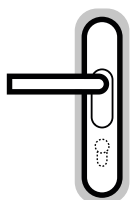
Hole-free snap-in installation (SHA...A/B)



Conventional mounting with option for mechanical secondary locking device (SHA/SHC/SHD...C-L)



Fastening system for installing on escutcheons with the option of a mechanical secondary locking device* (SHF/SHG...E-L)



Fastening system for metal frame doors with the option of a mechanical secondary locking device* (SHH/SHI...E-L)

* Delivered with an additional adapter plate for installation

// **CERTIFICATES**

- ▣ National technical approval
- ▣ EN 1634
- ▣ EN 179
- ▣ EN 1906 (Grade 4)
- ▣ DIN 18257 (ES1)
- ▣ SKG
- ▣ PAS 24

// **FINISHES**

- ▣ Stainless steel, brushed
- ▣ Brass

// **HANDLES**

A



C



E



B



D



SMART INTEGO GATEWAY NODE

Seamlessly integrates peripherals and software

The GatewayNode ensures perfect connection from SmartIntego components to the central control system for building security. As an intermediary between locking component intelligence on the one hand and the access control software on the other, the GatewayNode ensures flawless cooperation between the two.

A series of unique properties transform the radio-based GatewayNode with a RS485 or TCP/IP interface to the integrator system (PoE 802.3af) into an exceptionally powerful access manager. Each GatewayNode is able to transmit data between the integrator system and the locking device in real time. In addition to the online function via the GatewayNode, each locking device can also receive up to 250 dedicated local authorisations in advance.





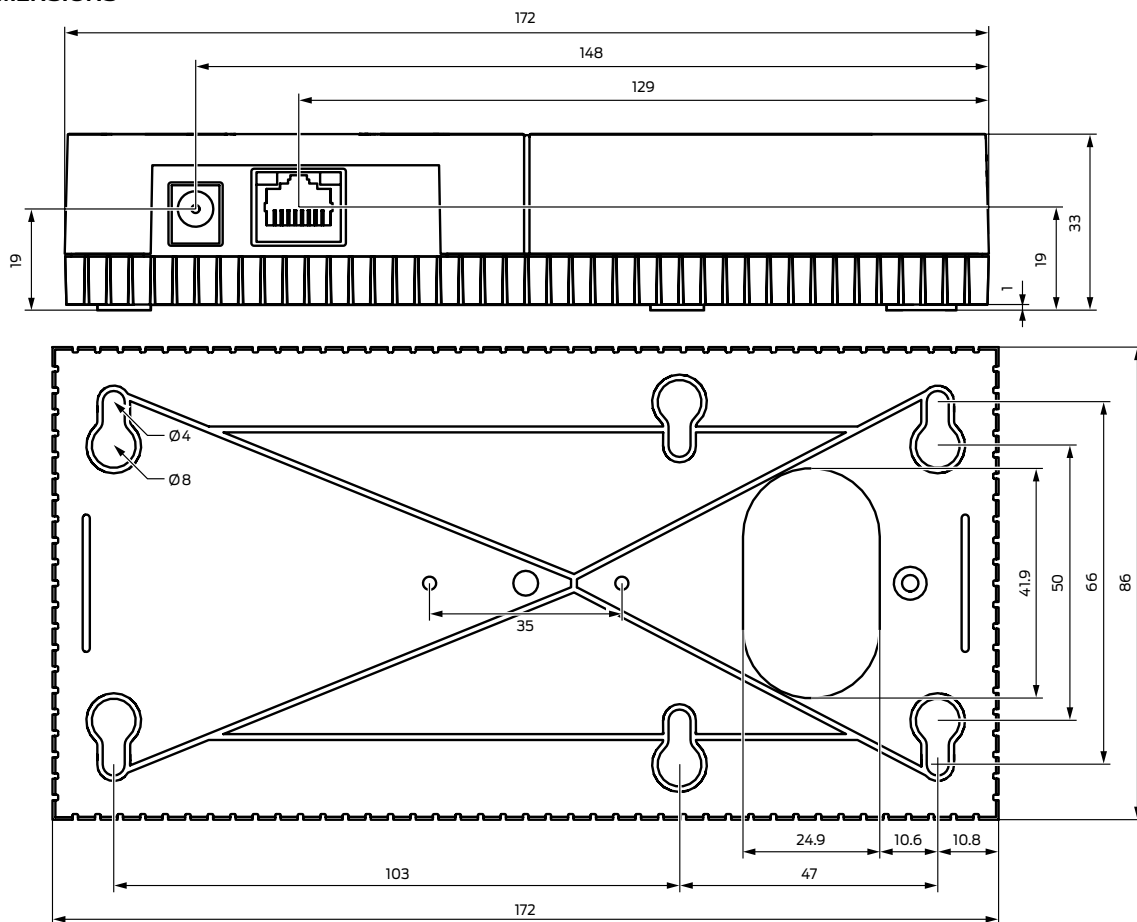
// FEATURES

- ❑ Cable-free networking of all locking devices
- ❑ Ensures seamless cooperation between peripherals and software.
- ❑ Data exchange in real time
- ❑ Range of up to 30 metres
- ❑ Connection to integrator management software via IP/Ethernet interface
- ❑ Radio communication over 868 MHz, with AES 128-bit encryption
- ❑ Power supply via PoE or external power supply
- ❑ Optional external antenna

// TECHNICAL DATA

General		Protection rating	IP20
Dimensions (W x H x D)	172 mm x 86 mm x 33 mm	Electrics	
Weight	About 100 g	Operating voltage	9 V _{DC} to 32 V _{DC} (reverse polarity protected) or PoE as per IEEE 802.3af Power supply via PoE and round plug possible at the same time: Round plug > 12 V _{DC} → round plug used. Round plug < 12 V _{DC} → PoE used
Material	ABS plastic, UV-stable	Output	Max. 3W
Colour	White (similar to RAL 9016 Traffic white)	Interfaces	
Installation	<ul style="list-style-type: none"> ❑ Horizontal ❑ Vertical ❑ Wall installation possible ❑ Integrated strain relief (3x) 	RJ45	<ul style="list-style-type: none"> ❑ Network interface ❑ 10T/100T ❑ HP Auto_MDX ❑ DHCP client (DHCP: on) ❑ IPv4 ❑ Services: <ul style="list-style-type: none"> ❑ TCP: 1x at Port 2101 ❑ UDP: 1x for Digi-Scan (OAM tool) ❑ Web server: enable
Connections	<ul style="list-style-type: none"> ❑ RJ45 (network/PoE) ❑ Round plug Ø 5.5 mm, Ø pin 2.0 mm (power supply) ❑ Screw terminal block, 2-pole, wire diameter between 0.14 mm² and 1.5 mm² (power supply for external applications) ❑ MCX socket (optional external antenna) 	868 MHz radio	WaveNet interface, range up to 30 m
Environment		Feedback signals	
Temperature range	Operational: -10 °C to +55 °C Storage: -20 °C to +60 °C	LED	RGB LED (centre of housing)
Humidity	Max. 90%, non-condensing	Software	
		Programming	via TCP/IP interface
		Radio emissions	
		SRD (WaveNet)	<ul style="list-style-type: none"> ❑ 868 MHz to 868 MHz ❑ <25 mW ERP
		There are no geographical restrictions within the EU.	

// DIMENSIONS



// OPTIONAL EXTERNAL ANTENNA

Electrical characteristics		Connection specifications	
Type	Multi-band antenna	Connection	MCX male
Frequencies	<ul style="list-style-type: none"> AMPS (824–894 MHz) GSM (900 MHz) DCS (1800 MHz) PCS (1900 MHz) 3G (UMTS 2.1 GHz) 	Cable	RG174U
Impedance	50 Ohm	Cable length	250 cm
Polarisation	Linear	Mechanical specifications and dimensions	
Repetition	2.2 dBi max.	Fastening	Magnetic attachment
VSWR	<3:1	Material	ABS
Operating temperature	-40 °C to +85 °C	Max. dimensions	30.9 x 71.5 mm (Ø x H)
		Weight	50 g 'Connection with cable mounted from above'
		Colour	Black

