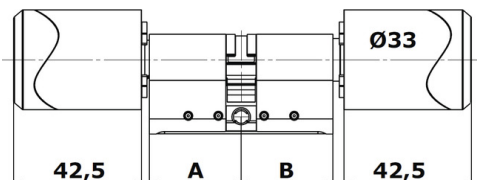


C100 electronic cylinder

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Aperio® is a new global ASSA ABLOY technology that enables mechanical locks to be wirelessly linked to a new or existing access control system without any need to modify the door. The heart of Aperio® is a short distance wireless communication protocol designed to link an online electronic access control system with an Aperio® enabled electronic cylinder or escutcheon. The open architecture of Aperio® provides a convenient way of connecting with most access control systems via RS485 or Wiegand interface. The Aperio® cylinders or escutcheons communicate via an encrypted wireless link to a communication hub that is wired directly to the existing system. Aperio® offers a lower price per door, fast and easy to install and requires less man-hours to manage. It is managed with existing software and access control systems as it is built on an open standard.

Product description

Communication from hub via RS485 bus to the Online Access Control System (addressable) - access decision in the EAC system

Compatible with all DIN mortice locks, suitable for locks on glass door wings and walls

Main electronics (RFID + radio) in the outside knob - secure electronics inside cylinder core

Freely rotating lock cam

Freely rotating outside knob & freely rotating inside knob, read on both sides

Override Credentials: Up to 10 override credentials can be stored for an emergency access in case of failure or no communication with the access control or the hub.

Smart Credential Handling: In addition to the override credentials, the last valid credentials (up to 1000) can be cached automatically and for a limited time (up to 30 days), so that an opening can still be made without the intervention of the administrator.

LED for status visualisation

Overview of Advantages

- For interior and exterior use
- Brass cylinder with standard finish satin nickel-plated (NP)
- Outside knob free wheeling - inside knob always engaged
- Main electronics (RFID + radio) in the outside knob - secure electronics inside cylinder core
- LED for status display (red/green/orange)
- Resetting of the cam (optional)
- Compatible with all DIN mortice locks, suitable for locks on glass door wings and walls

Scope of delivery

- 1 double knob cylinder with battery (Lithium CR2) and installation instructions
- Screws and fixing material

Note

- ASSA ABLOY Sicherheitstechnik GmbH is using open source code in this product. For more information visit <http://www.assaabloy.com/com/global/opensource/license/>
- * It should be observed that harsh environments may affect product operability (excessive humidity, salt, extreme temperatures)

Technical data

Knob surface	Stainless steel
Approvals	CE; fire door up to T90
Version	Fix or demountable knob versions with or without RFID-Reader
Cylinder length (LENGTH=A/LENGTH=B)	Basic length 30/30 mm, extendable in 5 mm increments up to 60 mm
Version	E/ED
Panic function SCALA	Without panic function
Device	Cylinder
Distance between the RFID-Reader and hub	Typical range 25 m depending on the hub type and building environments
RFID reading	UID / Sektor / Block / Application / File
Communication interfaces	Micro USB Firmware download (V3 only)
Surface	NP
Surface	NP - Cylinder surface nickel-plated
Screw length	85 mm
Length A	40 mm

RFID Technologies (Based on reader type)	MIFARE® Classic DESFire® EV1
Knob shape	Stainless steel
Function	Online
Profile	EURO
Type of cylinder	Double knob cylinder
Battery	1 x Lithium 3 V (CR2)
Battery life	30 openings per day for 49 months
Radio standard	IEEE 802.15.4 (2.4 GHz)
Encryption (radio communication)	AES 128 bits
Access	Identity card
RFID Reading range	< 4 cm
Status	LED (red/green/orange)
Events	Up to 200 events
Knob dimensions	43 x 33 mm (L x Ø)
Class of protection	IP 55
Operating temperature range	0°C to 60°C
Emergency authorisation	Up to 10 emergency authorization IDs
Length B	30 mm
Article number	50320160-2000--