

Electrical installation solutions for buildings

ABB-AccessControl

Index

Cylinder - European profile	19/8
Cylinder - Swiss profile	19/9
Cylinder - Scandinavian profile	19/10
Cylinder - ANSI profile	19/11
System devices	19/12
Accessories	19/13

Access control

The smarter way to control your door

Access control via digital locking cylinders has long been the system of choice in both private and commercial daily life. ABB-AccessControl ensures easy scalability, even for large-scale projects.

ABB-AccessControl comes along with maximum encryption transmission to ensure all cyber security demands. It can be planned as standalone solution or can be easily part of a bigger Building system due to smart connectivity via IP.

ABB-AccessControl as professional solution supports remote access and management possibilities that makes people's lives easier, thus for operators and end-users. The MyBuildingportal powered by ABB Ability provides the right and secure remote service.





Access control

The smarter way to control your door

Quick and easy retrofit to traditional mechanical cylinder

Whatever your access control needs, electronic wireless cylinders provide an ultra-modern solution that will compliment any type of door wherever they are used.

Maximum security by sophisticated encrypted communication

The DESfire EV1 key fob with sophisticated encryption technology makes duplication impossible. Plus the real-time cancellation to a lost or stolen key fob from management software, the door is secured all the time.

In addition, it is the encrypted radio frequency communication to transfer information from cylinder to Smart Access Point Pro. Both RF repeater and RF/IP gateway are also equipped with the same encryption mechanism.



Triple reminder guarantees on-time battery replacement

Despite the latest BLE low energy consumption technology, the battery can run with low power for quite a long period of time. When the reminder time has come with its self-counting algorithm, there will be visual indication from flash light every time swiping the card, in addition, the App will also receive the notification to change the battery. Finally, the email will be altered with the same information. With the help of local device App and email placement reminder, no need to worry about low battery power of your smart cylinder.

Scalable to big project

ABB-AccessControl is not restricted with wireless transmission, which is superb in short distance projects. The versatile system can flexibly scale up thanks to the RF/IP gateway. No limits of distance and capacity to decentralize each RF/IP gateway to manage up to 16 cylinders. This makes the new and big construction projects as easy as small projects to plan and to install.

User-friendly management system with intuitive web design

To intuitively visualize and manage the interlink between different user groups and door groups, is the key job of digital access control system. Administrator can quickly and easily execute all access plan updates on the system such as instant changes to user access privileges and can control the entire property. Meanwhile, administrator also can handle users' specific access rights to specific openings by setting the right mode from the choices of options.

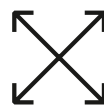


Make a door smart

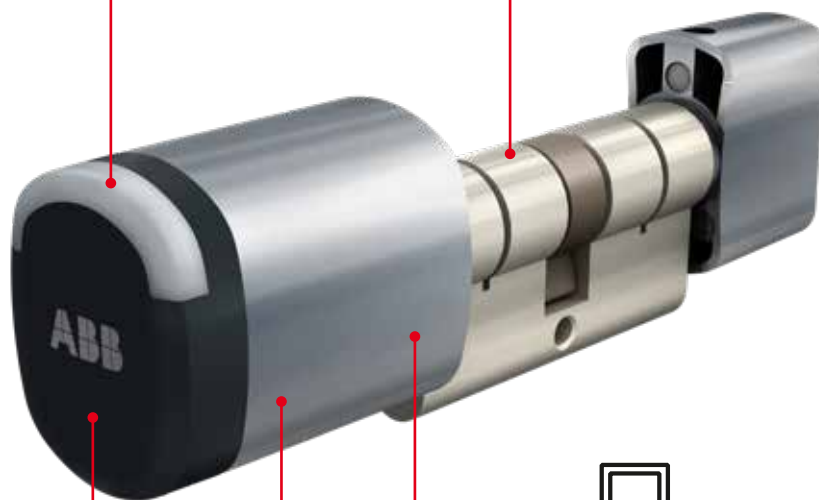
Example of European full profile cylinder



Visual and acoustic indication
On-site feedback for permitted or non-permitted access and other notification



Different lengths and profiles
Different lengths for different door thicknesses and profiles for EU, US, SCAN, SWISS standards



MIFARE® DESFire® EV2
Transponders in three color variants are available as modern keys



Interior and exterior doors
All the cylinders are suitable for interior and exterior doors, with IP66 protection level



In-built batteries
For up to 130,000 openings and reminder for soon necessary battery change

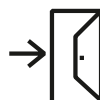
Control everything

Smart Access Point Pro



Access all possibilities

Central management device for AccessControl and Welcome IP systems. Support up to 600 devices and 2000 Users



Who, where and when

Access rights management for controlling up to 2000 users with manageable access



Easy commissioning and remote control

Web interface, no additional commissioning software is required

ABB-AccessControl

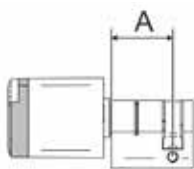
Cylinder - European profile



Cylinder - European half profile and European full profile

The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. 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. The cylinder can be operated offline, in a local networked configuration or online through internet.

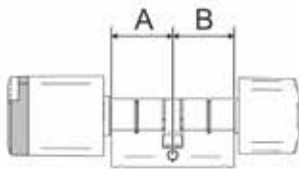
- Supported RFID standards: MIFARE (DESFire EV1)
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Battery: 4x LR1 Alkali
- Battery life at 20 °C: up to 130.000 or up to 3 years
- Temperature: -35 °C to 55 °C
- Protection type: up to IP66
- Humidity: 0 to 95%, non-condensing
- Certification symbol: CE, FCC, IC, IP66, EAC, WEEE



European half profile						
B	00	30	35	40	45	50
A						
30	1174	1183	1192	1201	1210	1219
35	1175	1184	1193	1202	1211	1220
40	1176	1185	1194	1203	1212	1221
45	1177	1186	1195	1204	1213	1222
50	1178	1187	1196	1205	1214	1223
55	1179	1188	1197	1206	1215	1224
60	1180	1189	1198	1207	1216	1225
65	1181	1190	1199	1208	1217	1226
70	1182	1191	1200	1209	1218	1227

Article no. D01EUA**ABB**03NF1-04 Replace in the article number "**AA**" with measure A and "**BB**" with measure B

Order no. 2CKA008300**AXXX** Replace in the order number "**XXXX**" with the corresponding code in the measures table



European full profile with thumbturn									
B	30	35	40	45	50	55	60	65	70
A									
30	1228	1229	1230	1231	1232	1233	1234	1235	1236
35	1237	1238	1239	1240	1241	1242	1243	1244	1245
40	1246	1247	1248	1249	1250	1251	1252	1253	1254
45	1255	1256	1257	1258	1259	1260	1261	1262	1263
50	1264	1265	1266	1267	1268	1269	1270	1271	1272
55	1273	1274	1275	1276	1277	1278	1279	1280	1281
60	1282	1283	1284	1285	1286	1287	1288	1289	1290
65	1291	1292	1293	1294	1295	1296	1297	1298	1299
70	1300	1301	1302	1303	1304	1305	1306	1307	1308

Article no. D01EUA**ABB**03TF1-04 Replace in the article number "**AA**" with measure A and "**BB**" with measure B

Order no. 2CKA008300**AXXX** Replace in the order number "**XXXX**" with the corresponding code in the measures table

ABB-AccessControl

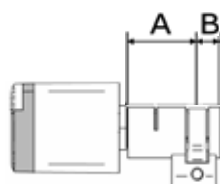
Cylinder - Swiss profile



Cylinder - Swiss half profile and Swiss full profile

The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. 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. The cylinder can be operated offline, in a local networked configuration or online through internet.

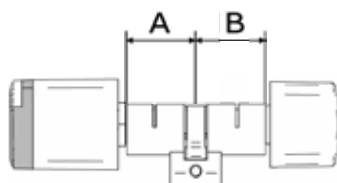
- Supported RFID standards: MIFARE (DESFire EV1)
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Battery: 4x LR1 Alkali
- Battery life at 20 °C: up to 130.000 or up to 3 years
- Temperature: -35 °C to 55 °C
- Protection type: up to IP66
- Humidity: 0 to 95%, non-condensing
- Certification symbol: CE, FCC, IC, IP66, EAC, WEEE



Swiss half profile						
B	00	30	35	40	45	50
A						
30	1309	1318	1327	1336	1345	1354
35	1310	1319	1328	1337	1346	1355
40	1311	1320	1329	1338	1347	1356
45	1312	1321	1330	1339	1348	1357
50	1313	1322	1331	1340	1349	1358
55	1314	1323	1332	1341	1350	1359
60	1315	1324	1333	1342	1351	1360
65	1316	1325	1334	1343	1352	1361
70	1317	1326	1335	1344	1353	1362

Article no. D01CHA**ABB**03NF1-04 Replace in the article number “**AA**” with measure A and “**BB**” with measure B.

Order no. 2CKA008300**AXXXX** Replace in the order number “**XXXX**” with the corresponding code in the measures table.



Swiss full profile with thumbturn									
B	30	35	40	45	50	55	60	65	70
A									
30	1363	1364	1365	1366	1367	1368	1369	1370	1371
35	1372	1373	1374	1375	1376	1377	1378	1379	1380
40	1381	1382	1383	1384	1385	1386	1387	1388	1389
45	1390	1391	1392	1393	1394	1395	1396	1397	1398
50	1399	1400	1401	1402	1403	1404	1405	1406	1407
55	1408	1409	1410	1411	1412	1413	1414	1415	1416
60	1417	1418	1419	1420	1421	1422	1423	1424	1425
65	1426	1427	1428	1429	1430	1431	1432	1433	1434
70	1435	1436	1437	1438	1439	1440	1441	1442	1443

Article no. D01CHA**ABB**03TF1-04 Replace in the article number “**AA**” with measure A and “**BB**” with measure B.

Order no. 2CKA008300**AXXXX** Replace in the order number “**XXXX**” with the corresponding code in the measures table.

ABB-AccessControl

Cylinder - Scandinavian profile



Cylinder - Scandinavian half profile

The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. 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. The cylinder can be operated offline, in a local networked configuration or online through internet.

- Supported RFID standards: MIFARE (DESFire EV1)
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Battery: 4x LR1 Alkali
- Battery life at 20 °C: up to 130.000 or up to 3 years
- Temperature: -35 °C to 55 °C
- Protection type: up to IP66
- Humidity: 0 to 95%, non-condensing
- Certification symbol: CE, FCC, IC, IP66, EAC, WEEE

Scandinavian half profile

Dimension	30/00
Article no.	D015C300003NF1-04
Order no.	2CKA008300A0846

ABB-AccessControl

Cylinder - ANSI profile

Cylinder - Mortise profile, RIM US profile for standard & Schlage® B-Series deadbolt

The cylinder is suitable for any interior or weather-proofed exterior door, making it a very versatile solution. 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. The cylinder can be operated offline, in a local networked configuration or online through internet.

- Supported RFID standards: MIFARE (DESFire EV1)
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Battery: 4x LR1 Alkali
- Battery life at 20 °C: up to 130.000 or up to 3 years
- Temperature: -35 °C to 55 °C
- Protection type: up to IP66
- Humidity: 0 to 95%, non-condensing
- Certification symbol: CE, FCC, IC, IP66, EAC, WEEE



Mortise profile			
Dimension	32/00	35/00	38/00
Article no.	D01MO320003NF1-04	D01MO350003NF1-04	D01MO380003NF1-04
Order no.	2CKA008300A0986	2CKA008300A0987	2CKA008300A0988
Dimension	41/00	44/00	50/00
Article no.	D01MO410003NF1-04	D01MO440003NF1-04	D01MO500003NF1-04
Order no.	2CKA008300A0989	2CKA008300A0990	2CKA008300A0991



Latch cylinder for standard deadbolt	
Dimension	00/00
Article no.	D01US000003NF1-04
Order no.	2CKA008300A0983



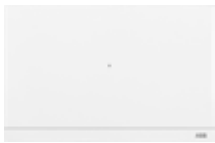
Latch cylinder for standard deadbolt	
Dimension	32/00
Article no.	D01DB000003NF1-04
Order no.	2CKA008300A1015

ABB-AccessControl

System devices

Shared features:

- Radio interface: IEEE 802.15.4 2.4GHz radio
- Power supply: 24 V DC
- Temperature: -10 °C to +45 °C
- Protection type: IP30
- Vandal proof: IK07
- Humidity: 0 to 95%, non-condensing



Smart Access Point Pro

A central management device of AccessControl and Welcome IP, it can couple as sub-system, and also manage interworking of multiple sub-system of same type. Commissioning and remote control is executed via web interface. No additional commissioning software is required.

Connection to the network via WLAN client mode or via CAT cable to manage all your access, configure all your devices, record your logs, etc.

- Easy to commissioning
- Access rights for full management
- Enhanced security with record event log and receive notification and alert
- Manage all connected devices
- Interaction between different systems
- Manage welcome App
- Event management and building-wide messaging
- Integrated chimey, easy for retrofit
- Dimension: 204 × 132 × 32 mm / 8 x 5.2 x 1.25 inch
- Operating mode: LAN / WiFi-Client / WiFi-AP
- Wireless transmission band: IEEE 802.11 a/b/g/n 2.4 GHz/5.8 GHz
- Safety standard: WPA-PSK, WPA2-PSK, WPA, WPA2, IEEE 802.1x
- Network connection standard: 10 / 100 Mbps, auto MDI/MDI-X
- PoE (Power over Ethernet)

Article no.	D04011
Order no.	2TMA400260W0002



RF repeater

RF repeater is for indoor applications, wireless extension of radio range by integrated antenna. No network knowledge is required for the wireless network. The RF repeater is available in the elegant housings and can be combined with all VDE boxes, and also can be surface-mounted on the wall.

- Scale up system topology easily
- Easy and fast configuration
- Firmware update remotely
- Dimension: 90 x 90 x 28 mm / 3.5 x 3.5 x 1.1 inch

Article no.	D04021
Order no.	2TMA400260W0003

ABB-AccessControl

Accessories



RF/IP Gateway

RF/IP Gateway is an easy solution to connect the cylinders to IP platform, so it is one important device to extend the AC solution from residential to commercial, support more than 16 doors, even there is long distance between each door.

- Scale up wireless access control system topology easily
- One RF/IP gateway can support another 16 cylinders
- Maximum 64 gateways can be connected
- Easy and fast configuration
- Graphical visual configuration through SmartAP web-based interface, pair and link the locks simply and fast
- Different power solution to meet different requests
- PoE
- Power supply: 24 V DC
- Firmware update remotely through SmartAP and APP
- Dimension: 107 × 109 × 30 mm / 4.2 x 4.3 x 1.2 inch
- Radio interface: IEEE 802.15.4 2.4GHz radio
- Power supply: 24 V DC
- Temperature: -10 °C to +45 °C
- Protection type: IP30
- Vandal proof: IK07
- Humidity: 0 to 95%, non-condensing

Article no.	D04031
Order no.	2TMA400260W0013



Tag

The tag is based on RFID chip technology. Available in electronic cylinders and ABB outdoor readers. With a special encryption to ensure secure controlled access.

- 13.56 MHz contactless RFID identification, DESfireEV1 (256, 2K, 4K, 8K bytes)
- Compatible in all ABB devices
- Modern design with ID-number layout
- Waterproof
- 13.56 MHz, Mifare DESfireEV1 chip

Version	White ■	Grey ■	Black ■
Article no.	D081WH-04	D081GY-04	D081BK-04
Order no.	2CKA008300A1001	2CKA008300A1002	2CKA008300A1004

ABB-AccessControl

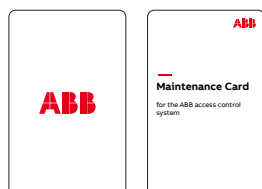
Accessories



Maintenance tool

A tool for disassembling / mounting the knob, to install in new door, or replace battery.

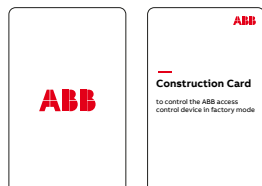
Article no.	D080MT-04
Order no.	2CKA0083000A1006



Maintenance card

Maintenance card to activate the digital cylinder into the smart access point.

Article no.	D080MC-04
Order no.	2CKA0083000A1007



Construction card

Construction to control the digital cylinder in factory mode.

Article no.	D080CC-04
Order no.	2CKA0083000A1012



Battery pack LR1

Spare part, batteries already included in the digital cylinder package.

Article no.	D080BT-03
Order no.	2CKA0083000A1013