Building automation
Door communication & access control

ABB

Building automation
Door communication & access control

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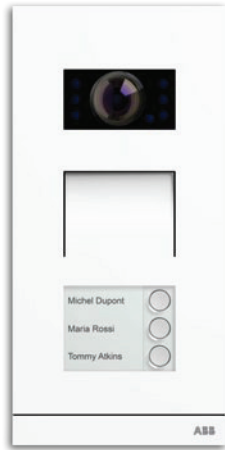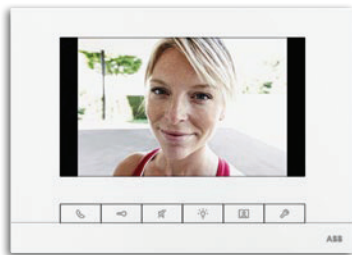02

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ABB-Welcome

01 Video outdoor station, stainless steel (brushed)
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Building automation
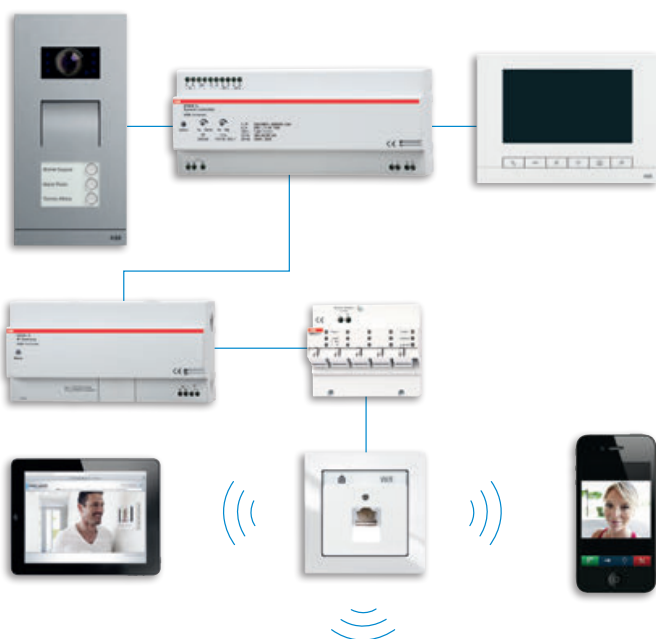## ABB - Welcome door system

Possibilities with installation modules for letterbox systems.

- Max. 4 video door systems with max. 99 doorbell buttons
- Max. 99 private apartments
- A maximum of 4 indoor stations are possible in each apartment, inependant of audio or video

Two sub lines as well as the incoming and forwarding stub line can be connected per video distributor.

01   Keypad extension
02   Camera module
03   Audio assembly with microphone and loadspeaker
04   Switch actuator, flush mounted

Mobile door communication.

As supplement to the permanently installed indoor stations, up to four additional participants can be connected to the ABB-Welcome system via the IP gateway. These devices can be smartphones, tablet PCs or a Busch-ComfortTouch®. The devices can be mixed.

There is only one system controller irrespective of whether audio or video systems are set up. Starting from a specific number of participants, additional power supplies are necessary. Detailed information on the system setup is available in the ABB-Welcome system manual (0001-0-1292). The system controller already has connections for the door opener and for one outdoor light. Both are switched via the indoor station.

Description	Part No	Product Hierarchy 900004 Order Code

Outdoor video stations stainless steel

Front plate made of 3 mm stainless steel, surface is brushed
Video camera with automatic day/night switchover and
infrared LEDs to illuminate the night shots.
Communication unit and key module are backlit.
Stamped labelling foil is enclosed.
Mounting tool is enclosed.
For flush-mounted installation with 83402 U-681-500.
For surface-mounted installation with 83402 AP-681-500.
Vertical/horizontal detection angle: 86°/67°
Setting angle horizontal/vertical: +/-15°, mechanically adjustable
Protection class (Device): IP 44
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 277 mm x 135 mm x 43 mm

6 gang 660 stainless steel

Description	Part No	Product Hierarchy 900004 Order Code
1 gang[1)	83121/1-660-500	8300-0-0101
2 gang[1)	83121/2-660-500	8300-0-0102
3 gang[1)	83121/3-660-500	8300-0-0103
4 gang[1)	83122/4-660-500	8300-0-0288
6 gang[1)	83122/6-660-500	8300-0-0289
8 gang[1)	83124/8-660-500	8300-0-0290
12 gang[1)	83124/12-660-500	8300-0-0291

Outdoor audio stations stainless steel

Front plate made of 3 mm stainless steel, surface is brushed
Communication unit and key module are backlit.
Stamped labelling foil is enclosed.
Mounting tool is enclosed.
For flush-mounted installation with 83401 U-681-500.
For surface-mounted installation with 83401 AP-681-500.
Protection class (Device): IP 44
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 205 mm x 135 mm x 29 mm

1 gang 660 stainless steel

Description	Part No	Product Hierarchy 900004 Order Code
2 gang[1)	83101/1-660-500	8300-0-0096
2 gang[1)	83101/2-660-500	8300-0-0097
3 gang[1)	83101/3-660-500	8300-0-0098
4 gang[1)	83102/4-660-500	8300-0-0284
6 gang[1)	83102/6-660-500	300-0-0285
10 gang[1)	83105/10-660-500	8300-0-0286
15 gang[1)	83105/15-660-500	8300-0-0287

Outdoor video stations studio white matt

Front plate made of 3 mm steel, surface is coated white
Video camera with automatic day/night switchover and
infrared LEDs to illuminate the night shots.
Communication unit and key module are backlit.
Stamped labelling foil is enclosed.
Mounting tool is enclosed.
For flush-mounted installation with 83402 U-689-500.
For surface-mounted installation with 83402 AP-689-500.
Vertical/horizontal detection angle: 86°/67°
Setting angle horizontal/vertical: +/-15°, mechanically adjustable
Protection class (Device): IP 44
Temperature range (Device): -25 °C to 55 °C
Dimensions: (L x W x D): 277 mm x 135 mm x 43 mm

8 gang 664 studio white

Description	Part No	Product Hierarchy 900004 Order Code
1 gang[1)	83121/1-664-500	8300-0-0091
2 gang[1)	83121/2-664-500	8300-0-0092
3 gang[1)	83121/3-664-500	8300-0-0093
4 gang[1)	83122/4-664-500	8300-0-0280
6 gang[1)	83122/6-664-500	8300-0-0281
8 gang[1)	83124/8-664-500	8300-0-0282
12 gang[1)	83124/12-664-500	8300-0-0283

Description	Part No	Product Hierarchy 900004 Order Code

Outdoor audio stations studio white matt
Front plate made of 3 mm steel, surface is coated white
Communication unit and key module are backlit.
Stamped labelling foil is enclosed.
Mounting tool is enclosed.
For flush-mounted installation with 83401 U-689-500.
For surface-mounted installation with 83401 AP-689-500.
Protection class (Device): IP 44
Temperature range (Device): –25 °C to 55 °C
Dimensions: (L x W x D): 205 mm x 135 mm x 29 mm

3 gang 664 studio white

Description	Part No	Order Code
1 gang[1]	83101/1-664-500	8300-0-0086
2 gang[1]	83101/2-664-500	8300-0-0087
3 gang[1]	83101/3-664-500	8300-0-0088
4 gang[1]	83102/4-664-500	8300-0-0276
6 gang[1]	83102/6-664-500	8300-0-0277
10 gang[1]	83105/10-664-500	8300-0-0278
15 gang[1]	83105/15-664-500	8300-0-0279

WelcomeTouch video station with 17.8 cm (7") touch display
Display of the video image of the outdoor station. During the
conversation a picture of the visitor can be taken and stored
in the picture memory.
For door calls during absence three pictures of the visitor
are automatically stored in the picture memory.
With hands-free function, volume is adjustable.
Easy operation keys for door openers, mute function and light.
Different bell sounds are adjustable for door and floor ringing;
five polyphone bell sounds are available.
Volume of bell sounds is adjustable.
For surface mounting.
SD card slot for extension of the picture memory.
Display size: 17,8 cm (7'')
Display resolution: 800 x 480
Consumer units: 11
Protection class (Device): IP 30
Temperature range (Device): –5 °C to 40 °C
Dimensions: (L x W x D): 155 mm x 218 mm x 29 mm

Description	Part No	Order Code
624 studio white matt	83220 AP-624-500	8300-0-0083
681 anthracite matt	83220 AP-681-500	8300-0-0084
683 aluminium silver	83220 AP-683-500	8300-0-0085

Indoor audio station with handset
Volume of the handset is adjustable.
Easy operation keys for door openers, mute function and light.
Different bell sounds are adjustable for door and floor ringing;
five polyphone bell sounds are available.
Volume of bell sounds is adjustable.
For surface mounting.
Consumer units: 1
Protection class (Device): IP 30
Temperature range (Device): –5 °C to 40 °C
Dimensions: (L x W x D): 198 mm x 81 mm x 38 mm

Description	Part No	Order Code
624 studio white matt	83205 AP-624-500	8300-0-0080
681 anthracite matt	83205 AP-681-500	8300-0-0081
683 aluminium silver	83205 AP-683-500	8300-0-0082

Indoor audio station surface mounting
With hands-free function, volume is adjustable.
Easy operation keys for door openers, mute function and light.
Different bell sounds are adjustable for door and floor ringing;
five polyphone bell sounds are available.
Volume of bell sounds is adjustable.
Consumer units: 1
Protection class (Device): IP 30
Temperature range (Device): –5 °C to 40 °C
Dimensions: (L x W x D): 175 mm x 81 mm x 22 mm

Description	Part No	Order Code
624 studio white matt	83210 AP-624-500	8300-0-0332
681 anthracite matt	83210 AP-681-500	8300-0-0333
683 aluminium silver	83210 AP-683-500	8300-0-0334

Description	Part No	Product Hierarchy 900004 Order Code
Indoor audio station with display flush mounted For integrating in Busch-Jaeger switch ranges Illuminated monochrome display for indicating the most important functions (e.g. bells, conversation, mute) and programming menu. With hands-free function, volume is adjustable. Easy operation keys for door openers, mute function and light. Different bell sounds are adjustable for door and floor ringing; five polyphone bell sounds are available. Volume of bell sounds is adjustable. For flush-mounted installation in two flush-mounted sockets. Display size: 3,8 cm (1,5'') Consumer units: 2 Protection class (Device): IP 30 Temperature range (Device): -5 °C to 40 °C	83200 U-500	8300-0-0218
Cover plates For indoor audio station with display. Protection class (Device): IP 30 Temperature range (Device): -5 °C to 40 °C		
81 anthracite - future® linear	83260-81-500	8300-0-0220
83 aluminium silver - future® linear	83260-83-500	8300-0-0221
84 studio white - future® linear	83260-84-500	8300-0-0219
84 studio white - solo	83260-84-500	8300-0-0219
84 studio white - Busch-axcent®	83260-84-500	8300-0-0219
84 studio white - carat®	83260-84-500	8300-0-0219
System controller, MDRC Supply device and controller of the ABB-Welcome system. For connecting the indoor and outdoor busline. With output for electrical door opener for 12V∼, 1,6A or potential-free output 30V, 3A. With output to control hall light directly or via relais (230V, 3A). Switching time duration of the door opener and the light is adjustable. For up to 65 consumer units. Rated voltage: 230 V∼, +10 % / -10 % Output voltage: 28 V Rated frequency: 50 Hz/60 Hz Rated power: 42 W Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 216 mm x 65 mm Module width: 12 MW	83300-500	8300-0-0125
Auxiliary power supply, MDRC Additional supply device of the ABB-Welcome system to increase the number of connectable indoor stations. For up to 45 consumer units. Rated voltage: 230 V∼, +10 % / -10 % Output voltage: 28 V Rated frequency: 50 Hz/60 Hz Rated power: 28 W Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 144 mm x 65 mm Module width: 8 MW	83310-500	8300-0-0126
Switch actuator, door/light, MDRC To control an additional electrical door opener or additional hall light directly or via potential-free output 230V, 3A. Assignment to an outdoor station is adjustable. Switching time adjustable: for door opener 1 sec to 10 sec; for light outputs 1 sec to 5 min. Consumer units: 2 Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 72 mm x 65 mm Module width: 4 MW	83330-500	8300-0-0123

Description	Part No	Product Hierarchy 900004 Order Code
Bell transformer, 12 V AC 1.3 A, MDRC Power supply for an electric door opener. 4 V~, 1.3 A, 8 VA 8 V~, 1.3 A, 12 VA 12 V~, 1.3 A, 16 VA Rated voltage: 230 V~ Rated frequency: 50 Hz Protection class (Device): IP 20 Dimensions: (L x W x D): 90 mm x 36 mm x 65 mm Module width: 2 MW	83315-500	8300-0-0124
IP gateway Allows the integration of tablet or smartphone with installed Welcome app as mobile indoor load for audio and video communication. Makes possible the use of the Busch-ComfortTouch® as indoor door communication. Ethernet connection (RJ 45). Consumer units: 11 Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 180 mm x 65 mm Module width: 10 MW	83341-500	8300-0-0336
Video indoor distributor, MDRC For the distribution of the video signal with line junctions (e.g in a riser mains). Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 36 mm x 65 mm Module width: 2 MW	83320/2-500	8300-0-0120
Video indoor distributor, flush-mounted For mounting in flush-mounted wall box. For the distribution of the video signal with line junctions (e.g in a riser mains). Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 45 mm x 53 mm x 20 mm	83320/2 U-500	8300-0-0121
Video outdoor distributor, MDRC For connecting several video outdoor stations to the system controller. Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 36 mm x 65 mm Module width: 2 MW	83325/2-500	8300-0-0122
Switch actuator, flush-mounted For mounting in flush-mounted wall box. Switch actuator for connection to the door communication bus. Activates connected loads during an incoming door call (e.g. an external gong). Floating output: 230 V, 3 AX. Consumer units: 1 Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 51 mm x 51 mm x 28 mm	83335 U-500	8300-0-0335
Telephone gateway For connecting an ABB-Welcome system with the analog inputs of a private branch exchange (PBX). Enables the usage of telephones (e.g. DECT, ISDN or mobile phones) as indoor station. Taking door calls, opening the door and switching the light via the telephone keypad (DTMF). Switching between the freely-programmable target numbers via the telephone keypad (DTMF). PIN protection for all configuration settings. For ABB-Welcome systems with up to 99 appartments. Programming via the telephone keypad (DTMF) or via web browser (requires IP gateway 83342-5..). 2 screw-type terminals for the analog a'/b' connection towards the private branch exchange (PBX). Consumer units: 1 Protection class (Device): IP 20 Temperature range (Device): -5 °C to 45 °C Dimensions: (L x W x D): 90 mm x 72 mm x 65 mm Module width: 4 MW	83350-500	8300-0-0388

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ABB - Welcome door system accessories

Description	Part No	Product Hierarchy 900004 Order Code
Flush-mounting box - For mounting in plastered facades. Offers mounting points for the flush-mounted installation box.		
Size 1/2	83551-500	8300-0-0349
Size 1/3	83552-500	8300-0-0350
Size 1/4	83553-500	8300-0-0351
Size 2/3	83554-500	8300-0-0352
Cavity wall set For cavity wall mounting of the flush-mounted wall boxes.	83511-500	8300-0-0309
Surface-mounted installation box For surface-mounted installation of ABB-Welcome outdoorstation. Protection class (Device): IP 44		
681 anthracite - size 1/2	83401 AP-681-500	8300-0-0116
689 light grey - size 1/2	83401 AP-689-500	8300-0-0112
681 anthracite - size 1/3	83402 AP-681-500	8300-0-0117
689 light grey - size 1/3	83402 AP-689-500	8300-0-0113
681 anthracite - size 1/4	83403 AP-681-500	8300-0-0118
689 light grey - size 1/4	83402 AP-689-500	8300-0-0114
681 anthracite - size 2/3	83404 AP-681-500	8300-0-0119
689 light grey - size 2/3	83404 AP-689-500	8300-0-0115
DIN A 4 labelling sheet Transparent	1799/03	1799-0-0960
Base call button module Spare part for the outdoor station. Stamped labelling foil is enclosed. Protection class (Device): IP 44 Temperature range (Device): -25 °C to 55 °C		
1 gang	83140/1-500	8300-0-0106
2 gang	83140/2-500	8300-0-0107
3 gang	83140/3-500	8300-0-0108
Auxiliary call button module Spare part for the outdoor station. Stamped labelling foil is enclosed. Protection class (Device): IP 44 Temperature range (Device): -25 °C to 55 °C		
1 gang	83141/1-500	8300-0-0109
2 gang	83141/2-500	8300-0-0110
3 gang	83141/3-500	8300-0-0111
Audio module Spare part for the outdoor station or as supplement for the audio module assembly. Temperature range (Device): -25 °C to 55 °C	83500-500	8300-0-0232
Camera module Allows the integration of the ABB-Welcome installation in letter boxes and bell systems of different manufacturers, such as in the products of Erwin Renz Metallwarenfabrik GmbH & Co KG, Boschstr. 3, 71737 Kirchberg/Murr. The cutout for the camera must be created by the manufacturer. Extended audio module assembly with video function. Video camera with automatic day/night switchover and infrared LEDs to illuminate the night shots. Installed heating to keep the lens free of condensation. Vertical/horizontal detection angle: 86°/67° Setting angle horizontal/vertical: +/-15°, mechanically adjustable Consumer units: 4 Temperature range (Device): -25 °C to 55 °C	83501-101-500	8300-0-0331

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ABB - Welcome door system accessories

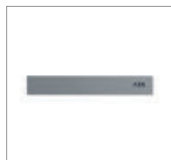| Description	Part No	Product Hierarchy 900004 Order Code
Flush-mounted installation box - For flush-mounted installation of ABB-Welcome outdoor station. Protection class (Device): IP 44 Temperature range (Device): -25 °C to 55 °C		
681 anthracite - size 1/2	83401 U-681-500	8300-0-0248
689 light grey - size 1/2	83401 U-689-500	8300-0-0244
681 anthracite - size 1/3	83402 U-681-500	8300-0-0249
689 light grey - size 1/3	83402 U-689-500	8300-0-0245
681 anthracite - size 1/4	83403 U-681-500	8300-0-0250
689 light grey - size 1/4	83403 U-689-500	8300-0-0246
681 anthracite - size 2/3	83404 U-681-500	8300-0-0251
689 light grey - size 2/3	83404 U-689-500	8300-0-0247
Audio Integration Unit Allows the integration of the ABB-Welcome installation in letter boxes and bell systems of different manufacturers, such as in the products of Erwin Renz Metallwarenfabrik GmbH & Co KG, Boschstr. 3, 71737 Kirchberg/Murr. Makes audio communication possible. Built-in relay for operating the door opener. 8 inputs for connecting the doorbell push-switches. Adjustable volume. With interface for the connection of built-in keypad extensions. With interface for the connection of the camera module. Consumer units: 2 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 68 mm x 126 mm x 31 mm	83110-500	8300-0-0329
Extension Unit Allows the integration of the ABB-Welcome installation in letter boxes and bell systems of different manufacturers, such as in the products of Erwin Renz Metallwarenfabrik GmbH & Co KG, Boschstr. 3, 71737 Kirchberg/Murr. With interface for the connection of additional built-in keypad extensions. The built-in audio module can be extended to a maximum of 99 inputs for doorbell push-switches with the aid of the built-in keypad extension. Consumer units: 1 Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 68 mm x 50 mm x 24 mm	83111-500	8300-0-0330
Handset Spare part for indoor audio station with handset. Temperature range (Device): -5 °C to 45 °C		
624 studio white matt	83505-624-500	8300-0-0135
681 anthracite matt	83505-681-500	8300-0-0135
683 aluminium silver	83505-683-500	8300-0-0137
End strip, size 1/x Spare part for the outdoor station. For outdoor stations 135 mm wide. Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 19 mm x 135 mm x 15 mm		
660 stainless steel	83531-660-500	8300-0-0130
664 studio white matt	83531-664-500	8300-0-0131
End strip, size 2/x Spare part for the outdoor station. For outdoor stations 235 mm wide. Temperature range (Device): -25 °C to 55 °C Dimensions: (L x W x D): 19 mm x 235 mm x 15 mm		
660 stainless steel	83532-660-500	8300-0-0132
664 studio white matt	83532-664-500	8300-0-0133
Label holder Spare part for the outdoor station. Temperature range (Device): -25 °C to 55 °C	83161-500	8300-0-0211

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ABB - Welcome door system accessories

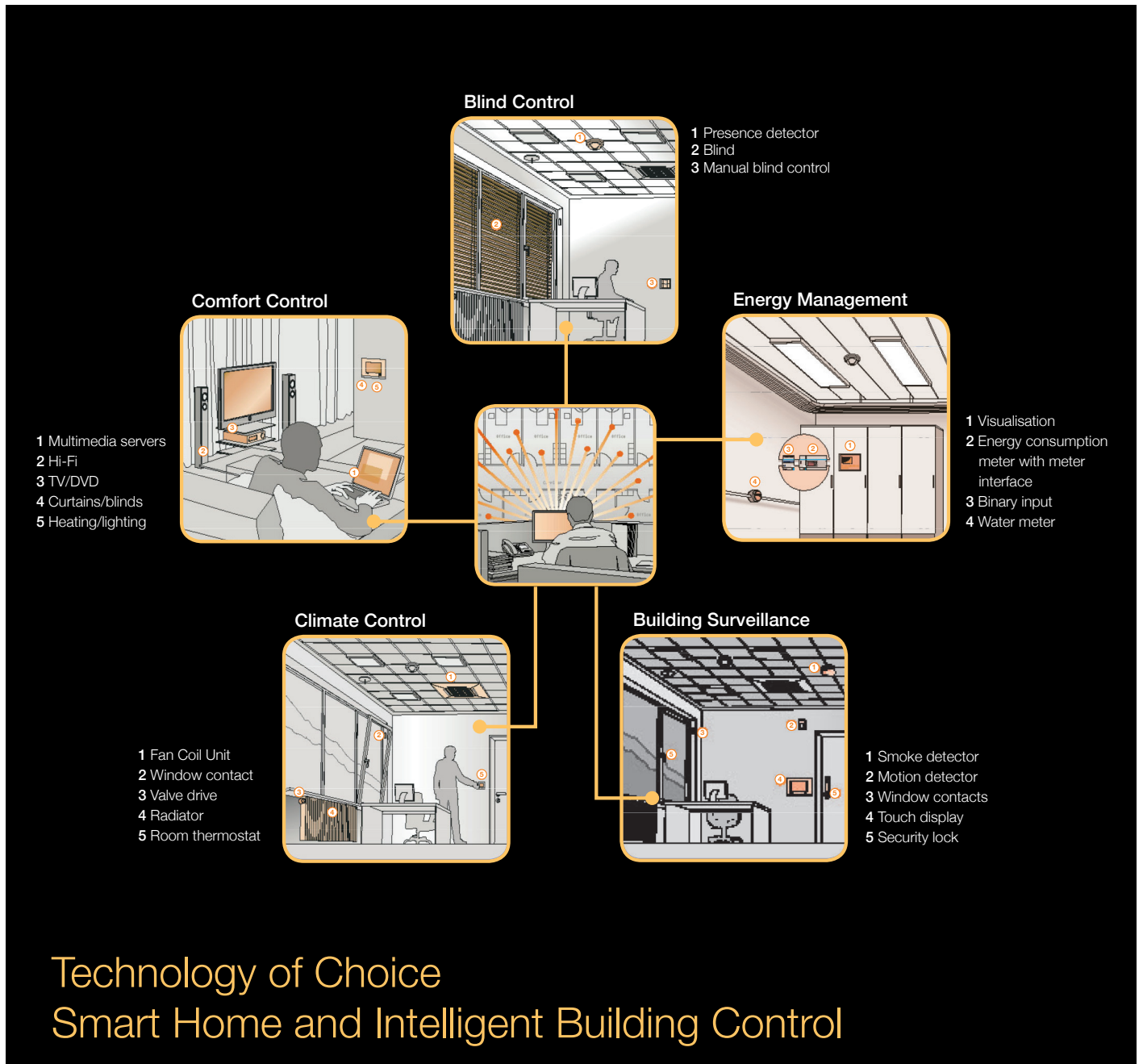| Description	Part No	Product Hierarchy 900004 Order Code
Sealing strip Spare part for the outdoor station. Temperature range (Device): -25 °C to 55 °C	83530-500	8300-0-0134
Mounting tool Spare part for the outdoor station.	83510-500	8300-0-0129

Building automation
ABB - Welcome door system complete sets

Description	Part No	Product Hierarchy 900004 Order Code
Audio compact set for One-family house Indoor station to match the future® linear switch range in studio white, outdoor station: stainless steel Consisting of outdoor audio station, 1 gang 83101/1-660-500. Consisting of outdoor surface-mounted installation box 83401 AP-681-500. Consisting of indoor audio station with display 83200 U-500. Consisting of cover plate 83260-84-500. Consisting of system controller 83300-500. Consisting of 2gang frame 1722-184K.	83004/1-500	8300-0-0142
Audio compact set for Two-family house Indoor station to match the future® linear switch range in studio white, outdoor station: stainless steel Consisting of outdoor audio station, 2 gang 83101/2-660-500. Consisting of outdoor surface-mounted installation box 83401 AP-681-500. Consisting of 2 x indoor audio station with display 83200 U-500. Consisting of 2 x cover plates 83260-84-500. Consisting of system controller 83300-500. Consisting of 2 x 2gang frame 1722-184K.	83004/2-500	8300-0-0143
Video compact set for One-family house ABB-WelcomeTouch in studio white matt, outdoor station: stainless steel Consisting of outdoor video station, 1 gang 83121/1-660-500. Consisting of outdoor surface-mounted installation box 83402 AP-681-500. Consisting of ABB-WelcomeTouch 83220 AP-624-500. Consisting of system controller 83300-500.	83022/1-500	8300-0-0150
Video compact set for Two-family house ABB-WelcomeTouch in studio white matt, outdoor station: stainless steel Consisting of outdoor video station, 2 gang 83121/2-660-500. Consisting of outdoor surface-mounted installation box 83402 AP-681-500. Consisting of 2 x ABB-WelcomeTouch 83220 AP-624-500. Consisting of system controller 83300-500.	83022/2-500	8300-0-0151

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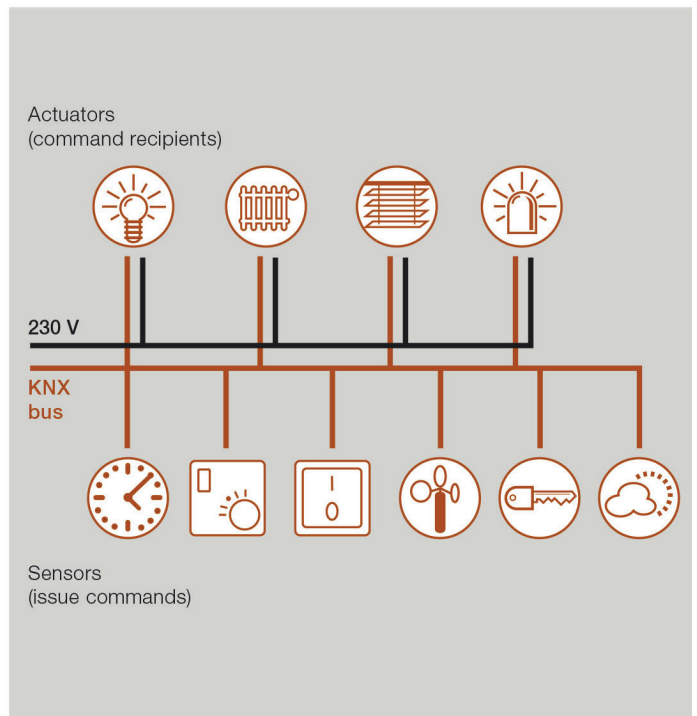## ABB i-bus® KNX

Blind Control

1 Presence detector
2 Blind
3 Manual blind control

Comfort Control

1 Multimedia servers
2 Hi-Fi
3 TV/DVD
4 Curtains/blinds
5 Heating/lighting

Energy Management

1 Visualisation
2 Energy consumption
  meter with meter
  interface
3 Binary input
4 Water meter

Climate Control

1 Fan Coil Unit
2 Window contact
3 Valve drive
4 Radiator
5 Room thermostat

Building Surveillance

1 Smoke detector
2 Motion detector
3 Window contacts
4 Touch display
5 Security lock

Technology of Choice
Smart Home and Intelligent Building Control
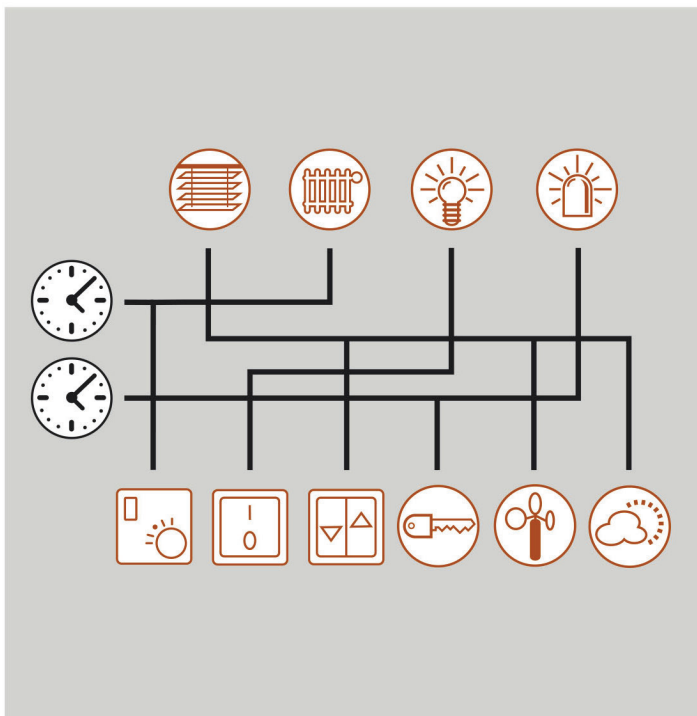
Building automation
ABB i-bus® KNX

ABB i-bus® KNX Intelligent Building Control.

Automation in buildings aims to combine individual room functions with one another and to simplify the implementation of individual customer preferences. KNX is the logical development for implementing traditional and new requirements in electrical building installations and thus replacing conventional installation techniques. The intelligent installation bus system efficiently performs the conventional functions and offers an additional broad range of expanded features, which could not be realized without a bus system. ABB offers consultants, system integrators and electrical installers a comprehensive product range with ABB i-bus® KNX, in order to meet the challenges posed to electrical building installations both today and in the future.

The KNX system is the leading intelligent control system for buildings world-wide. KNX resulted from the merger of major bus systems, including the well-known EIB (European Installation Bus) that has been successfully on the market since 1992. What does KNX stand for? KNX is the first globally standardized system for the automation of residential and commercial buildings in accordance with the international standard (ISO/IEC 14543-3), the European standard (CENELEC EN 50090, CEN EN 13321-1 and

13321-2), the Chinese standard (GB/Z 20965) and the US standard (ANSI/ASHRAE 135).– KNX has established a clearly defined system platform where the KNX products of different manufacturers can be operated with one another. Both the data protocol and the devices are certified compliant to the KNX standard. KNX thus guarantees the net-workability, interoperability, is both upward and downward compatible and thus future-proof. Just one common software tool is required for planning, engineering and commissioning of all KNX installations. Both the manufacturers and the KNX Association support professionals during planning, commissioning and maintenance world-wide. Comprehensive training opportunities are available for beginners and experienced users in certified training centres. More than 200 internationally certified manufacturers are members of the KNX association. More than 22,000 qualified KNX partners plan, install and integrate KNX systems worldwide. Thousands of buildings, ranging from private houses to airport complexes around the world, are equipped with more than 10 million KNX products.

Actuators
(command recipients)

230 V

KNX
bus

Sensors
(issue commands)

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Power and productivity
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