



Short form catalogue

Building automation Door communication & access control

Building automation

Door communication & access control



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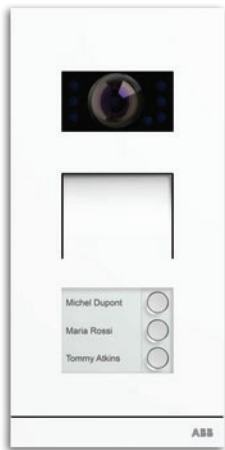
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Building automation

ABB - Welcome door system overview



01



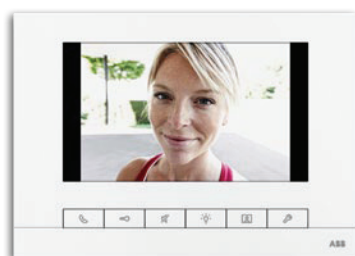
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ABB-Welcome

- 01 Video outdoor station, stainless steel (brushed)
- 02 Video outdoor station, studio white matt (metal-coated)
- 03 Audio outdoor station, stainless steel (brushed)
- 04 Audio outdoor station, studio white matt (metal-coated)
- 05 WelcomeTouch, studio white matt
- 06 WelcomeTouch, aluminium silver
- 07 WelcomeTouch, anthracite matt
- 08 Indoor audio station with display, switch range future® inear, studio white
- 09 Indoor audio station with display, switch range future® linear, aluminium silver
- 10 Indoor audio station with display, switch range future® linear, anthracite
- 11 Indoor audio station with handset, studio white matt
- 12 Indoor audio station with handset, aluminium silver
- 13 Indoor audio station with handset, anthracite matt

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, independent of audio or video

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



01

02

03

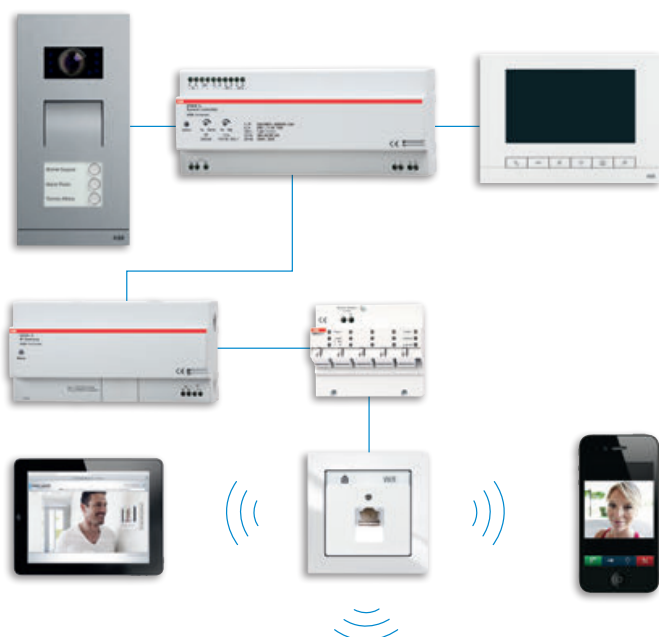
04

01 Keypad extension

02 Camera module

03 Audio assembly with microphone and loudspeaker

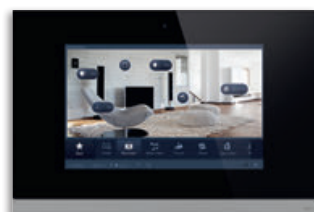
04 Switch actuator, flush mounted



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.



Building automation

ABB - Welcome door system



6 gang 660 stainless steel

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

| | | |
|-----------------------|------------------|-------------|
| 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 |



1 gang 660 stainless steel

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

| | | |
|-----------------------|------------------|-------------|
| 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 |



8 gang 664 studio white

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

| | | |
|-----------------------|------------------|-------------|
| 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 |

Building automation

ABB - Welcome door system



3 gang 664 studio white

| 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

| | | |
|-----------------------|------------------|-------------|
| 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



| | | |
|-----------------------|------------------|-------------|
| 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



| | | |
|-----------------------|------------------|-------------|
| 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



| | | |
|-----------------------|------------------|-------------|
| 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 |

Building automation

ABB - Welcome door system



| 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 relays (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

Building automation

ABB - Welcome door system



Description

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

Part No

83315-500

Product Hierarchy 900004 Order Code

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 apartments.
 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

Building automation

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 |

Building automation

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

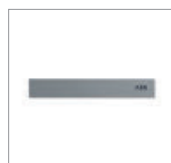


Handset

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

Building automation

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 |

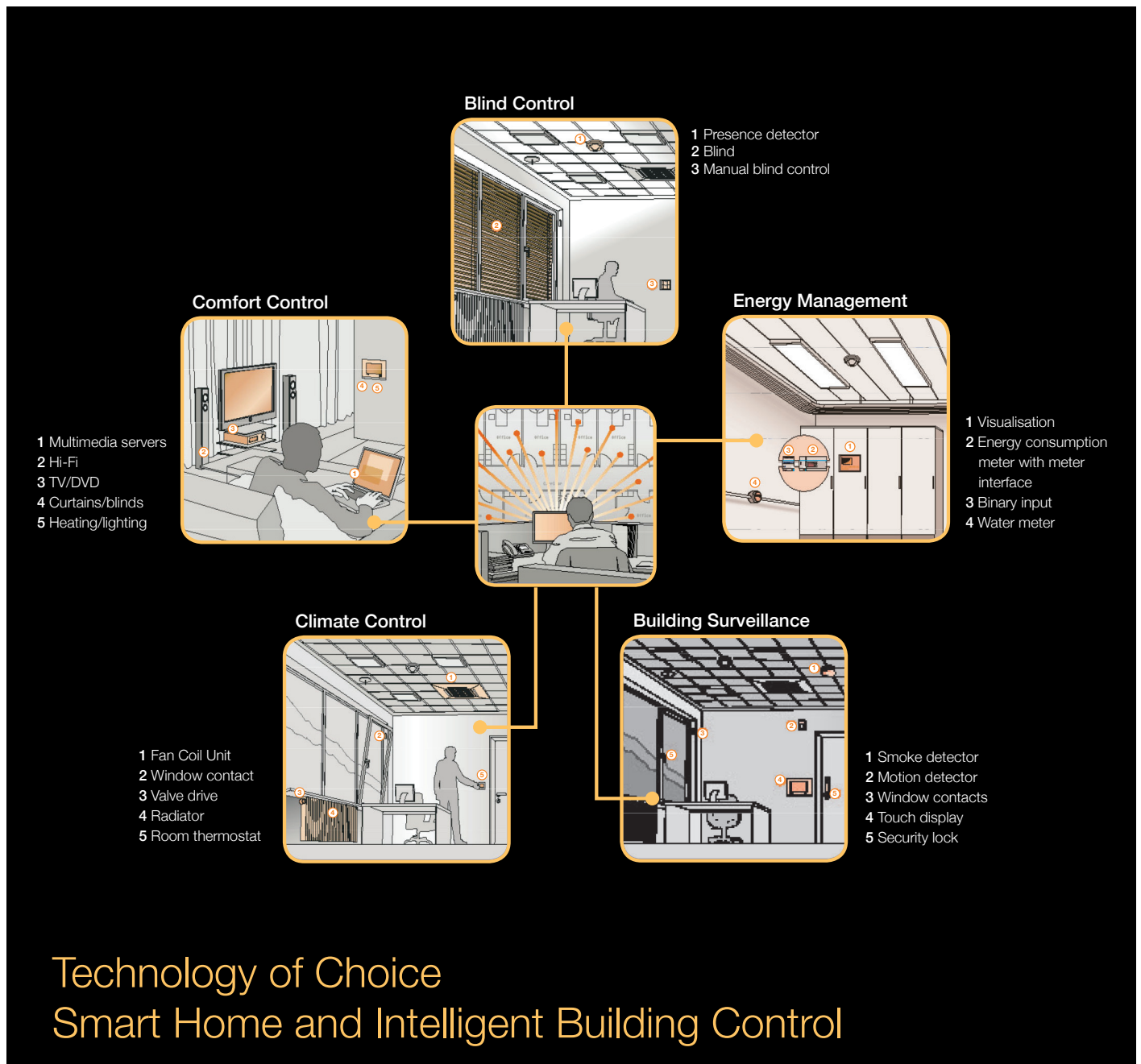
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ABB - Welcome door system complete sets



| 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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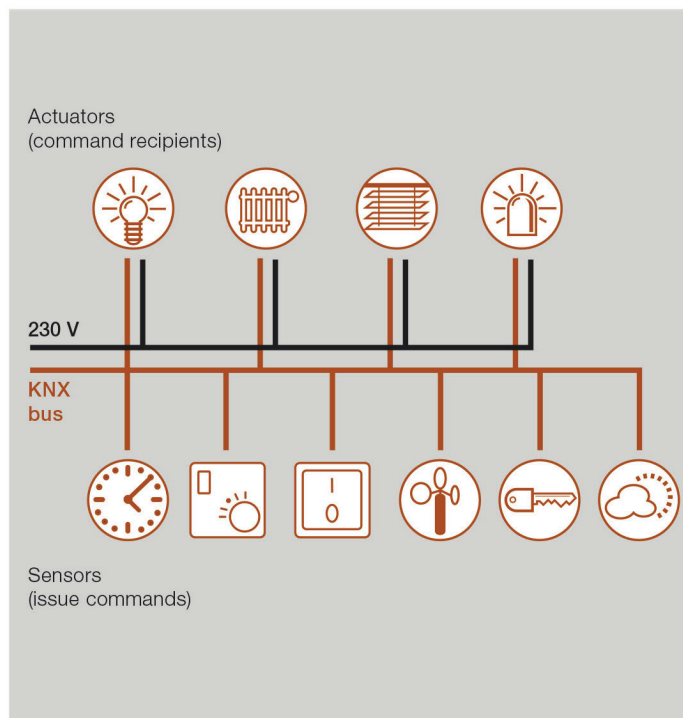
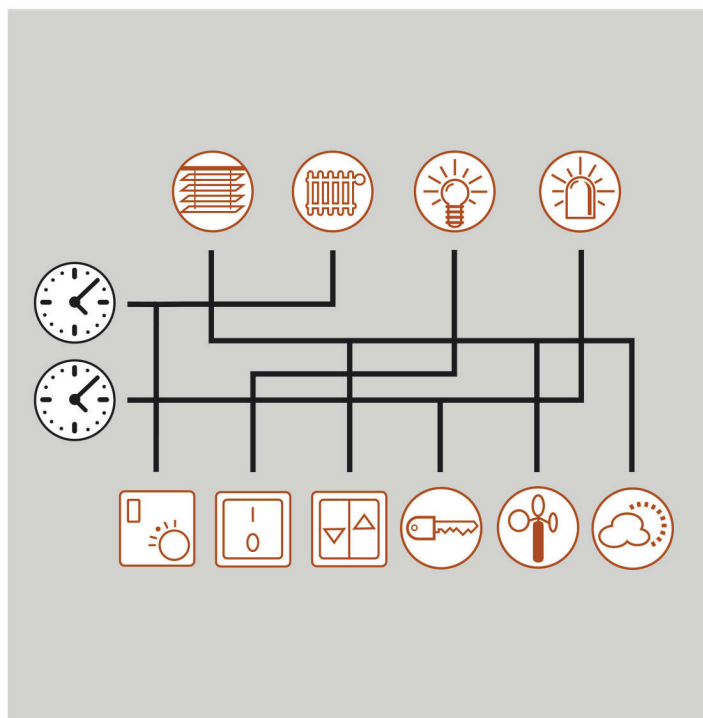
ABB i-bus® KNX

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.



Contact us

ABB Ltd

Tower Court
Foleshill Enterprise Park
Courtaulds Way
Coventry CV6 5NX

Tel: 0333 999 9900

Fax: 0333 999 9901

Email: LV.Enquiries@gb.abb.com

Twitter: @ABBUKLP

www.abb.co.uk/lowvoltage

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