Product range E 210
On-off switches, pushbuttons, indicator lights
System pro M compact®
The new 9 and 18 mm wide ABB modular command or control devices for DIN 35 mm mounting rail attachment in the system pro M compact ® design.

ABB modular command or control devices can be used in the SMISSLINE socket system (without contact to the bus bar).
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Applications
On-off switches, pushbuttons, indicator lights

Using modular DIN-rail mounted devices (MDRC) such as On-Off switches, pushbuttons and indicator lights makes it possible to switch and control electric loads from a central location. Thanks to signalling of the switch position, operating states can be recognized easily and users have an overview of the situation. Space is saved in the distribution board thanks to the new narrow width of only 9 mm (0.5 modular width). The On-Off switches are easy to operate and the switched position is always clearly recognisable. Depending on requirements, the switch position can also be indicated by a built-in yellow LED. The pushbuttons are excellently suitable for forwarding pulse control commands, e.g. in lighting controls. The operating state of the luminous pushbutton variants can be signalled. The indicator lights are optimally used to signal or report back an operating state.

Private electrical installations
All E210 devices can be used in subdistribution boards of multiple or single-family dwellings and other private buildings. Optimum operability and/or signalling of operating states is made easily possible.

Examples:
- Phase monitoring
- Signalling the operating state of a pond pump
- Switching machines in a DIY workshop
- Switching additional garden lighting On/Off
- Visualising the garden/garage door position

Commercial installations
In guesthouses, hotels, storage halls, small workshops, construction sites and other commercial operations, the E210 devices enable easy switching, control and signalling, thus providing a clear general picture of current operating states.

Examples:
- Outdoor lighting systems
- Additional electric heaters
- Visual status indication of machines and devices (e.g. a fan)
- Outdoor sockets
- Hotel reception (switching and/or monitoring functions)

Industrial installations
The E210 product range is also used in all industrial establishments.

Examples:
- Phase monitoring
- Manual flap controls (ventilation systems)
- Switching pumps On/Off
- Manual - 0 - Automatic changeover
- Manual changeover of two-speed machines
Integration of modular installation devices (on-off switches, pushbuttons and indicator lights) in the subdistribution board affords the additional advantage of intelligible signalling of electric loads' operating states. Easy operation or interpretation of devices is ensured by the clearly recognizable switching position (toggle lever) and/or a status display by means of an LED light. Depending on the system requirements, further signalling or control functionality for reliable operation can be used in the subdistribution board in the form of pushbuttons or indicator lights.

**Electric heating devices**

- **On-off switches, pushbuttons and pushbuttons with LED**
  Manual direct or pulse-controlled On/Off switching of additional heating elements, e.g. in DIY workshops or other purpose-built installations.

**Lighting systems**

- **On-off switches**
  As master switches for multiple-phase lighting sections, e.g. in halls, large basement rooms or provisional constructions.

- **Pushbuttons and pushbuttons with LED (puls contact operation)**
  Issuing of commands to latching relay or miniature contactors with visual feedback.

**Air conditioners and fans**

- **On-off switches or pushbuttons**
  Connecting air conditioners or ventilation fans as required.

- **Change over switches or group switches I-0-II**
  Switching over fans with two operating levels

- **Group switches I-0-II**
  Manual - 0 - Automatic changeover (from normal to emergency mains)

**Signalling**

- **On-off switches or pushbuttons with LED**
  Clear signalling and indication of the operating states of electric loads.

- **Indicator lights**
  Phase monitoring display
  Signalling On, Off or Danger (colours, e.g. green, red, yellow)
Sample applications

On-off switches and control switches

Additional garden lighting
On-off switches E211-16-20 (2NO contacts) and indicator lights E219-D
- On-off control for additional garden light
- The green indicator light in the central distribution board shows whether the garden light is ON or OFF

Room ventilator with status display
Control switches E218-25-31 (3NO + 1NC contacts) and E219-D48; E219-C48
- On-off function control of a ventilator
- Integrated signal lamp 24 V for status detection is directly embedded at the ventilator
- The green and red indicator lights 12-48 V show the current operating position in the central distribution board
Change over switches and group switches

### Flap gate control
**Change over switches E213-16-001 with position I-II (1CO contact) and E219-G; E219-B**
- Control of a manual flap gate position with central visualization
- The blue indicator light shows that the flap gate is open
- The white indicator light shines in closed state

### Electrical room heater
**Group switches E214-16-101 with position I-0-II (1CO contact) and E219-E; E219-G**
- Changeover switching of manual control to time switch mode, e.g. for an additional heater
- The yellow indicator light shows that the control mode occurs manually
- The heater is set on automatic control when the blue E219-G shines
Sample applications

Push buttons

Room lighting (fluorescent-tubes)

Pushbuttons mit 1NO contact (impulse) with geen LED

- Lighting system with latching relay (impulse switching relais)
- The green LED which is integrated in the pushbutton shines when the lighting group has the status ON
Multiple indicator lights

Network and phase control
Multiple indicator lights E219-3D (3x green LEDs)
- All LEDs shine → Net is working
- If one phase breaks down, the green LED turns off
  → Attention! Phase break down in the network

Motor status display
Multiple indicator lights E219-2CD (1x green, 1x red LED)
- ABB three-phase contactor (remote controlled with 2 auxiliary contacts (1NO + 1NC))
- The current operating mode of the motor drive is visualized over auxiliary contacts.
Sample applications

Multiple indicator lights

**Motor status display**

**Multiple indicator lights E219-3CDE (1x green, 1x yellow, 1x red LED)**
- ABB polyphase contact gate (remote control) with 2 auxiliary contacts (1NO + 1NC)
- The current operating mode of the motor drive is visualized over contactor auxiliary contacts
- The error indication occurs over the signalling contact of the motor protection relay
Motor status display (off and interruption)
Multiple indicator lights E219-3CDE (1x green, 1x yellow, 1x red LED)
- A thermal activation is signaled by the use of motor protection relay contacts
- Motor off = green LED on; closed motor protection relay contact = yellow LED shows interference
Characteristics
On-off switches, change over switches and group switches

The On-Off switches, pushbuttons and indicator light units open up new space-saving and modern installation possibilities.

The units are for switching, controlling or signalling part of electrical systems or specific items of equipment. The new Series E210 units are available in widths of 9 mm (0.5 modular width) or 18 mm (1.0 modular width).

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**On-Off switches, 16 A, 25 A and 32 A**

These switches are installed directly in the subdistribution board and are used as manual master switches for direct On/Off switching of courtyard or basement lighting systems, ventilation and air conditioning systems, fans or special lighting systems with gas discharge lamps.

Module width depends on the contact configuration.
- 1 + 2 switching contacts = 9 mm (0.5 modular width)
- 3 + 4 switching contacts = 18 mm (1 modular width)

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**On-Off switches, 16 A and 25 A with switch position indication**

The unit’s switched position is signalled clearly by the integrated LED. Thanks to the easily visible lit amber LED, which operating states the various items of equipment are in is clearly recognisable on the distribution board.

Module width depends on the contact configuration.
- 1 switching contact + LED = 9 mm (0.5 modular width)
- 2 + 3 switching contacts + LED = 18 mm (1 modular width)

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**Change over switches, 16 A and 25 A**

With its two switched positions, the change over switch is used in industry and building management systems. Clear recognisability of the switch’s settings I and II enables reliable and easy use.

Applications consist of switching over from normal to emergency lighting, changing over an outdoor lighting system with light sensor to normal operation and many other possibilities.

Module width depends on the contact configuration.
- 1 changeover contact = 9 mm (0.5 modular width)
- 2 changeover contacts = 18 mm (1 modular width)

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**Group switches I-0-II 16 A and 25 A**

The group switches offer universal application possibilities in industry, building management systems and house installations. They are used in lighting and machine control systems, for example. Using these units, a Manual-0-Automatic control can be realised with ease.

Module width depends on the contact configuration.
- 1 changeover contact = 9 mm (0.5 modular width)
- 2 changeover contacts = 18 mm (1 modular width)
Control switches, pushbuttons and indicator lights

Control switches, 16 A and 25 A
The control switches are used in electric control cabinets or house distribution boards. They offer universal possibilities of use with their diverse variants. They perform the task of forwarding control commands.
Module width depends on the contact configuration.
1 + 2 switching contacts = 9 mm (0.5 modular width)
3 + 4 switching contacts = 18 mm (1 modular width)

Pushbutton, 16 A - 6 different pushbutton colours (Pulse contact operation)
Normal pushbuttons are always equipped with a normally-open and a normally-closed contact. The pushbuttons’ various colours (six colours) are based on DIN60204-1 (colour marking of operator control parts and their significance). These pushbutton devices are suitable for forwarding pulse control command in almost every electrical system. They can also be used to operate lighting groups by means of a pulse command, e.g. to a latching relay or directly on the spot from the subdistribution board or the distribution cabinet. Module width is always 9 mm (0.5 modular width)

Pushbutton, 16 A with LED - 5 different colours (Pulse contact operation)
The pushbuttons with an LED are equipped with only one contact (normally open or closed). Here, you have to choose between a normally-open or normally-closed version. The LED lights, various colours, are based on DIN60204-1 (colour marking of operator control parts and their significance).
The pushbuttons with LED are excellently suitable for signalling or reporting back the operating state of loads controlled.
e.g. pump On = green LED lit; pump Off = LED not lit

The pushbuttons with LED are available in 12-48 V versions for DC or AC voltage, 115-250 VAC voltage and 60-220 VDC voltage.

Indicator lights with 1 LED - 5 different LED colours
The indicator lights warrant a clear overview of the operating states of electrical equipment from one central location. The long useful life of LED technology promises maintenance-free operation for up to 100,000 hours.
For comparison: the incandescent bulbs previously used had a maximum operating operating time of 10,000 hours.

The indicator lights are available in 12-48 V versions for DC or AC voltage, 115-250 VAC voltage and in a version for 60-220 VDC voltage.

All code colours white, red, green, yellow and blue are available for the well-known functions:

<table>
<thead>
<tr>
<th>Code</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neutral</td>
<td>white</td>
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<tr>
<td>Emergency</td>
<td>red</td>
</tr>
<tr>
<td>Normal operation</td>
<td>green</td>
</tr>
<tr>
<td>Abnormal operation</td>
<td>yellow</td>
</tr>
<tr>
<td>Compelling action</td>
<td>blue</td>
</tr>
</tbody>
</table>

Technical catalogue | Characteristics 2/2
**Characteristics**

**multiple indicator lights**

**Multiple indicator lights with 2 or 3 LEDs**
These indicator lights are perfectly suited to the visualisation of on and off states. These devices can be used in private electrical equipment, commercial buildings or industrial switchgears. This application can be implemented in the smallest space in the apartment or control distributor.

The indicator lights are available with LEDs in the colours green and red, 3x red or in the traffic light colours red, yellow and green. Two different voltage ranges are available:
- 2 LEDs versions: 115-250 VAC or 12-48 VAC/DC
- 3 LEDs versions: 415/250 VAC

Module width is always 9 mm (0.5 modular width)

All code colours white, red, green, yellow and blue are available for the well-known functions:

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<td>green</td>
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<tr>
<td>Abnormal operation</td>
<td>yellow</td>
</tr>
<tr>
<td>Compelling action</td>
<td>blue</td>
</tr>
</tbody>
</table>
Set new standards in your electrical distribution board

The reduced device width saves space while providing the same functionality and improved performance

The 9 mm solution from ABB

More space plus improved performance
Characteristics

Pushbutton
6 different colours (grey, red, green, yellow, black, blue)

Cross-head recessed screws
Pozidrive 1 (captive)

Switch position
clearly recognisable

Indicator lights
5 different colours (red, green, yellow, blue, white)

Can be used in the SMISSLINE socket system

Reliable connection terminals
with integrated shutter

Fast mounting
Easily accessible with latching function
Impressive solutions at a glance
On-off switches, pushbuttons, indicator lights
- Touch protection to DIN EN 50274 (DIN VDE0660 Part 514)
- Reliable and convenient operation
- Colour-fast LEDs: 5 colours for luminous pushbuttons and indicator lights
- LED voltage ranges: 12-48 VAC/DC; 115-250 VAC; 60-220 VDC
- Multiple indicator lights with 2 or 3 LEDs
- Maintenance-free LED light source (up to 100,000 h)
- Consistent innovative design
- Dissipated power optimised
- Compliance with international standards

- Multiple indicator lights with 2 or 3 LEDs
- Visual switch position indication by On/Off switches (with LED light)
- Type designation and schematic with lasting laser marking
- Uniform design ABB pro M compact device family
- On/Off switch, lockable in the On or Off setting
Device overview
On-off switches, change over switches, group switches, control switches

On-off switches

On-off switches with LED

Change over switches

Group switches

Control switches
Pushbuttons, indicator lights and accessories

**Pushbuttons**

**Pushbuttons with LED**

**Indicator lights**

**Accessories**

Dummy housings (attachable)

Padlock for 9 and 18 mm
### On-Off switches, 16 A, 25 A and 32 A

<table>
<thead>
<tr>
<th>Contact config.</th>
<th>Rated Voltage VAC</th>
<th>Power I_loss W</th>
<th>LED Width mm</th>
<th>Order No.</th>
<th>Product No.</th>
<th>Bdn</th>
<th>Weight per unit EAN</th>
<th>Pack. unit kg</th>
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### On-Off switches, 16 A and 25 A with switch position indication

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<th>LED Width mm</th>
<th>Order No.</th>
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<th>Pack. unit kg</th>
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*NO = normally-open contact*
Change over switches and group switches

### Change over switches, 16 A and 25 A

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<tr>
<th>Contact config.</th>
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<th>Rated Power LED W</th>
<th>LED width mm</th>
<th>Order data</th>
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### Rated current = 25 A

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### Group switches I-0-II 16 A and 25 A

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<th>Rated Power LED W</th>
<th>LED width mm</th>
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<th>Product No.</th>
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<th>Weight per unit</th>
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<td><strong>Rated current = 16 A</strong></td>
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</table>

### Rated current = 25 A

<table>
<thead>
<tr>
<th>Contact config.</th>
<th>Rated voltage VAC</th>
<th>Rated Power LED W</th>
<th>LED width mm</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn 7612270</th>
<th>Weight per unit</th>
<th>Pack. unit</th>
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<tbody>
<tr>
<td>1 CO</td>
<td>250</td>
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<td>-</td>
<td>9</td>
<td>E214-25-101</td>
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<td>2 CO</td>
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<td>18</td>
<td>E214-25-202</td>
<td>2CCA703031R0001</td>
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<td>0.082</td>
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CO = changeover contact
### Control switches, 16 A and 25 A

<table>
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<tr>
<th>Contact config.</th>
<th>Rated voltage (VAC)</th>
<th>Power (W)</th>
<th>LED colour</th>
<th>Width (mm)</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn</th>
<th>Weight per unit (kg)</th>
<th>Pack. (unit)</th>
</tr>
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<tbody>
<tr>
<td><strong>Rated current = 16 A</strong></td>
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</tr>
<tr>
<td>1NO+1NC 250</td>
<td>0.50</td>
<td>-</td>
<td></td>
<td>9</td>
<td>E218-16-11</td>
<td>2CCA703050R0001</td>
<td>7612270</td>
<td>0.041</td>
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</tr>
<tr>
<td>2NO+2NC 250</td>
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<td>-</td>
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<td>18</td>
<td>E218-16-22</td>
<td>2CCA703060R0001</td>
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<td>3NO+1NC 250</td>
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<td>-</td>
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<td>E218-16-31</td>
<td>2CCA703065R0001</td>
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<td>1NO+1NC 250</td>
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<td>-</td>
<td></td>
<td>9</td>
<td>E215-16-11B</td>
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<td>1NO+1NC 250</td>
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<td>-</td>
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<td>938827</td>
<td>0.046</td>
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<td>1NO+1NC 250</td>
<td>0.50</td>
<td>-</td>
<td></td>
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<td>2CCA703152R0001</td>
<td>938834</td>
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<tr>
<td>1NO+1NC 250</td>
<td>0.50</td>
<td>-</td>
<td></td>
<td>9</td>
<td>E215-16-11E</td>
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<td>938841</td>
<td>0.046</td>
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</tr>
<tr>
<td>1NO+1NC 250</td>
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<td>E215-16-11F</td>
<td>2CCA703154R0001</td>
<td>938858</td>
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<td>1NO+1NC 250</td>
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<td>E215-16-11G</td>
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### Pushbutton, 16 A - 6 different pushbutton colours (Pulse contact operation)

<table>
<thead>
<tr>
<th>Contact config.</th>
<th>Rated voltage (VAC)</th>
<th>Power (W)</th>
<th>Button colour</th>
<th>Width (mm)</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn</th>
<th>Weight per unit (kg)</th>
<th>Pack. (unit)</th>
</tr>
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<tbody>
<tr>
<td><strong>Rated current = 16 A</strong></td>
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</tr>
<tr>
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<td>1NO+1NC 250</td>
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<td>-</td>
<td></td>
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<td>E215-16-11C</td>
<td>2CCA703151R0001</td>
<td>938810</td>
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</tr>
<tr>
<td>1NO+1NC 250</td>
<td>0.50</td>
<td>-</td>
<td></td>
<td>9</td>
<td>E215-16-11D</td>
<td>2CCA703152R0001</td>
<td>938827</td>
<td>0.046</td>
<td>10</td>
</tr>
<tr>
<td>1NO+1NC 250</td>
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<td>-</td>
<td></td>
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<td>E215-16-11E</td>
<td>2CCA703153R0001</td>
<td>938834</td>
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<td>1NO+1NC 250</td>
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<td>-</td>
<td></td>
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<td>E215-16-11F</td>
<td>2CCA703154R0001</td>
<td>938841</td>
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<td>1NO+1NC 250</td>
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<td></td>
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<td>938858</td>
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</tr>
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</table>

NO = normally-open contact  
NC = normally-closed contact
**Pushbuttons with LED**

**Pushbutton, 16 A, lit - 5 different LED colours (Pulse contact operation)**

<table>
<thead>
<tr>
<th>Contact config.</th>
<th>Rated voltage VAC</th>
<th>Power LED W</th>
<th>LED Width mm</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn</th>
<th>Weight per unit kg</th>
<th>Pack. unit</th>
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</thead>
<tbody>
<tr>
<td>NO</td>
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<td>E217-16-10B</td>
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<td>E217-16-10C</td>
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<td>E217-16-10D</td>
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</table>

**Rated LED voltage = 115-250 VAC**

<table>
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<tr>
<th>Contact config.</th>
<th>Rated voltage VAC</th>
<th>Power LED W</th>
<th>LED Width mm</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn</th>
<th>Weight per unit kg</th>
<th>Pack. unit</th>
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<tbody>
<tr>
<td>NO</td>
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<td>NO</td>
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<td>E217-16-01C</td>
<td>2CCA703251R0001 939091</td>
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**Rated LED voltage = 12-48 VAC/DC**

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<th>Rated voltage VAC</th>
<th>Power LED W</th>
<th>LED Width mm</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn</th>
<th>Weight per unit kg</th>
<th>Pack. unit</th>
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</thead>
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<tr>
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**Rated LED voltage = 60-220 VDC**

<table>
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<th>Rated voltage VAC</th>
<th>Power LED W</th>
<th>LED Width mm</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn</th>
<th>Weight per unit kg</th>
<th>Pack. unit</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
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<th>Power LED W</th>
<th>LED Width mm</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn</th>
<th>Weight per unit kg</th>
<th>Pack. unit</th>
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<tr>
<td>NC</td>
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<td>E217-16-01B</td>
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<table>
<thead>
<tr>
<th>Contact config.</th>
<th>Rated voltage VAC</th>
<th>Power LED W</th>
<th>LED Width mm</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn</th>
<th>Weight per unit kg</th>
<th>Pack. unit</th>
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<tbody>
<tr>
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<td>E217-16-01C220</td>
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NO = normally-open contact
NC = normally-closed contact
### Indicator lights with 1 LED - 5 different colours

<table>
<thead>
<tr>
<th>Contact config.</th>
<th>Rated voltage VAC</th>
<th>Power LED W</th>
<th>LED colour</th>
<th>Width mm</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn</th>
<th>Weight per unit kg</th>
<th>Pack. unit</th>
</tr>
</thead>
<tbody>
<tr>
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<td>- - 0.47</td>
<td>9</td>
<td>E219-B</td>
<td>2CCA703400R0001</td>
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<td>E219-C</td>
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<td>E219-D</td>
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<table>
<thead>
<tr>
<th>Contact config.</th>
<th>Rated voltage VAC</th>
<th>Power LED W</th>
<th>LED colour</th>
<th>Width mm</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn</th>
<th>Weight per unit kg</th>
<th>Pack. unit</th>
</tr>
</thead>
<tbody>
<tr>
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<td>E219-B48</td>
<td>2CCA703420R0001</td>
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<td>- - 0.40</td>
<td>9</td>
<td>E219-G48</td>
<td>2CCA703424R0001</td>
<td>939275</td>
<td>0.04</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contact config.</th>
<th>Rated voltage VAC</th>
<th>Power LED W</th>
<th>LED colour</th>
<th>Width mm</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn</th>
<th>Weight per unit kg</th>
<th>Pack. unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated LED voltage = 60-220 VDC</td>
<td>- - 1.00</td>
<td>9</td>
<td>E219-B220</td>
<td>2CCA703405R0001</td>
<td>939336</td>
<td>0.04</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- - 1.00</td>
<td>9</td>
<td>E219-C220</td>
<td>2CCA703406R0001</td>
<td>939343</td>
<td>0.04</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- - 1.00</td>
<td>9</td>
<td>E219-D220</td>
<td>2CCA703407R0001</td>
<td>939350</td>
<td>0.04</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- - 1.00</td>
<td>9</td>
<td>E219-E220</td>
<td>2CCA703408R0001</td>
<td>939367</td>
<td>0.04</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- - 1.00</td>
<td>9</td>
<td>E219-G220</td>
<td>2CCA703409R0001</td>
<td>939374</td>
<td>0.04</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All code colours white, red, green, amber and blue are available for the well-known functions:

- Neutral = white
- Emergency = red
- Normal operation = green
- Abnormal operation = yellow
- Compelling action = blue
## Multiple indicator lights and accessories

### Multiple indicator lights with 2 LEDs

<table>
<thead>
<tr>
<th>Contact config.</th>
<th>Rated voltage VAC</th>
<th>W</th>
<th>Width mm</th>
<th>Type</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn 7612270</th>
<th>EAN</th>
<th>Weight kg</th>
<th>Pack. unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>0.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E219-2CD</td>
<td>2CCA703910R0001</td>
<td>413330</td>
<td>0.042</td>
<td>10</td>
</tr>
</tbody>
</table>

**Rated LED voltage = 115-250 VAC**

<table>
<thead>
<tr>
<th>Contact config.</th>
<th>Rated voltage VAC</th>
<th>W</th>
<th>Width mm</th>
<th>Type</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn 7612270</th>
<th>EAN</th>
<th>Weight kg</th>
<th>Pack. unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>0.8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E219-2CD48</td>
<td>2CCA703911R0001</td>
<td>413347</td>
<td>0.042</td>
<td>10</td>
</tr>
</tbody>
</table>

**Rated LED voltage = 12-48 VAC**

### Multiple indicator lights with 3 LEDs

<table>
<thead>
<tr>
<th>Contact config.</th>
<th>Rated voltage VAC</th>
<th>W</th>
<th>Width mm</th>
<th>Type</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn 7612270</th>
<th>EAN</th>
<th>Weight kg</th>
<th>Pack. unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>1.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E219-3C</td>
<td>2CCA703900R0001</td>
<td>413309</td>
<td>0.044</td>
<td>10</td>
</tr>
<tr>
<td>-</td>
<td>1.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E219-3D</td>
<td>2CCA703901R0001</td>
<td>413316</td>
<td>0.044</td>
<td>10</td>
</tr>
<tr>
<td>-</td>
<td>1.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E219-3CDE</td>
<td>2CCA703902R0001</td>
<td>413323</td>
<td>0.044</td>
<td>10</td>
</tr>
</tbody>
</table>

**Rated LED voltage = 415/250 VAC**

### Accessories for the E210 device series

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Type</th>
<th>Order data</th>
<th>Product No.</th>
<th>Bbn 7612270</th>
<th>EAN</th>
<th>Weight kg</th>
<th>Pack. unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>E210-DH</td>
<td></td>
<td>2CCA703480R0001</td>
<td>404208</td>
<td>0.18</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Width mm</th>
<th>Type</th>
<th>Product No.</th>
<th>Bbn 7612270</th>
<th>EAN</th>
<th>Weight kg</th>
<th>Pack. unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>E210-ASV9</td>
<td>2CCA703648R0001</td>
<td>404215</td>
<td>10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The modular width of 18 mm must be complied with to use the devices in the SMISLINE socket system. The dummy housing is ready-made with two expanding connectors. Always snap on dummy housings on the left.

Padlock E210-ASV9 2CCA703648R0001 404215 10

for 9 and 18 mm wide units
Technical data

On-off switches

General
Overall depth 68 mm
Width 0.5 or 1 module (9 or 18 mm)
Colour grey, RAL 7035
Climatic resistance to
- IEC 60068-2-2 (dry heat)
- IEC 60068-2-30 (humid heat)
- IEC 60068-2-1 (low temperatures)
Ambient temperature -25°C to +55°C
Storage temperature -40°C to +70°C
Connection cross-section (Cu) from 1 x 1 mm² to 1 x 6 mm² or 2 x 2.5 mm² solid;
from 1 x 0.75 mm² to 2 x 1.5 mm² flexible
with end ferrule or pin cable lug
Tightening torque 1,2-1,5 Nm
Contacts Double interrupting

On-off switches (E211; E211X)
Short-circuit withstand capacity \( I_{\text{nc}} \) 3 kA; at 400 V \( \cos \varphi = 0.8 \) (with fusing \( \leq 35 \text{ A} / \text{NH00} \))
Rated current \( I \) 16 A, 25 A, 32 A
Rated voltage \( U \)
- in accordance with EN 250 VAC, 400 VAC
- in accordance UL 508 240 VAC
Rated impulse withstand voltage \( U_{\text{imp}} \) 6 kV
Lowest operating voltage 24 VAC; 25 mA
Isolating features to EN60669-2-4; IEC/EN 60947-3
Utilization category AC-22 A, DC-22 A acc. IEC/EN 60947-3
LED voltage ranges On-off switches E211X 115-250 VAC (Tolerance +/- 10%)
Frequency 50/60 Hz
Sealable in the On and Off positions
Standards DIN EN 60669-1 *VDE 0632-1
DIN EN 60669-2-4 *VDE 0632-2-4
UL 508
Approvals VDE; UL; GOST; CCC

Utilization category for E211 On-off switches (according to standard IEC 60947-3)

<table>
<thead>
<tr>
<th>Type</th>
<th>( I_{\text{n}} )</th>
<th>DC-22 A</th>
<th>AC-22 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>E211-16-...</td>
<td>16 A</td>
<td>50 VDC / 16 A</td>
<td>200 VDC / 1 A</td>
</tr>
<tr>
<td>E211-25-...</td>
<td>25 A</td>
<td>50 VDC / 25 A</td>
<td>200 VDC / 2 A</td>
</tr>
<tr>
<td>E211-32-...-</td>
<td>32 A</td>
<td>50 VDC / 32 A</td>
<td>200 VDC / 3 A</td>
</tr>
</tbody>
</table>
Change over, Group and control switches, pushbuttons and indicator lights

**Change over, Group and Control switches (E213; E214; E218)**

Rated current $I_n$: 16 A, 25 A  
Rated voltage $U_n$:  
- in accordance with EN: 250 VAC, 400 VAC  
- in accordance UL 508: 240 VAC  
Lowest operating voltage: 24 VAC; 25 mA  
Frequency: 50/60 Hz  
Switches sealable: in the On and Off positions  
Standards: DIN EN 60669-1, *VDE 0632-1*  
Approvals: VDE; UL; GOST; CCC

**Pushbuttons without and with LED (E215; E217)**

Rated current $I_n$: 16 A  
Rated voltage $U_n$:  
- in accordance with EN: 250 VAC  
- in accordance UL 508: 240 VAC  
Lowest operating voltage: 24 VAC; 25 mA  
LED voltage ranges: 12-48 VAC/DC; 115-250 VAC; 60-220 VDC (Tolerance +/- 10%)  
Frequency: 50/60 Hz  
Standards: DIN EN 60669-1, *VDE 0632-1*  
Approvals: VDE; UL; GOST; CCC

**Indicator lights (E219)**

LED voltage ranges: 12-48 VAC/DC; 115-250 VAC; 60-220 VDC (Tolerance +/- 10%)  
Frequency: 50/60 Hz  
Insulation voltage: 250 V  
Rated impulse withstand voltage $U_{imp}$: 4 kV  
Dissipated power: 0.47-1 W  
Standards: DIN EN 62094-1  
Approvals: VDE; UL; GOST; *1

**Indicator lights with 2 LEDs**

LED voltage ranges: 115-250 VAC; 12-48 VAC (tolerance +/- 10%)  
Frequency: 50/60 Hz  
Insulation voltage: 250 V  
Rated impulse withstand voltage $U_{imp}$: 4 kV  
Dissipated power: 0.8 W  
Standards: DIN EN 62094-1  
Approvals: VDE; GOST; *1

**Indicator lights with 3 LEDs**

LED voltage ranges: 415/250 VAC (tolerance +/- 10%)  
Frequency: 50/60 Hz  
Insulation voltage: 250 V  
Rated impulse withstand voltage $U_{imp}$: 4 kV  
Dissipated power: 1.2 W  
Standards: DIN EN 62094-1  
Approvals: VDE; GOST; *1

*1 = CCC approval not required
Technical data
On-off switches 16 A and 25 A

On-off switches 16 A  DC switching capacity E211 16 A

On-off switches 25 A  DC switching capacity E211 25 A

Ohmic load
- Normally-open contact
- Normally-closed contact

Load with time constant
- t = 15ms (inductive load)
  - Normally-open contact
  - Normally-closed contact
On-off switches 32 A

DC switching capacity E211 32 A

- Ohmic load
- Normally-open contact
- Normally-closed contact

Load with time constant $t = 15\text{ms}$ (inductive load)

- Normally-open contact
- Normally-closed contact
### Pushbuttons and indicator lights

Overview of general meanings of the colours of operator control parts (excerpt from VDE 0199 or DIN EN 60073).

<table>
<thead>
<tr>
<th>Colour</th>
<th>Meaning</th>
<th>Explanation</th>
<th>Application examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED</td>
<td>Emergency</td>
<td>Action in hazardous situations or emergency</td>
<td>EMERGENCY STOP, STOP or OFF with EMERGENCY STOP pushbutton</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Initiating an emergency function</td>
</tr>
<tr>
<td>YELLOW</td>
<td>Abnormal</td>
<td>Action if an abnormal condition is present</td>
<td>Intervention required to suppress the abnormal condition, manual intervention to restart an interrupted automatic cycle</td>
</tr>
<tr>
<td>GREEN</td>
<td>Safety</td>
<td>Action in safe conditions or to prepare a normal condition</td>
<td>Activation</td>
</tr>
<tr>
<td>BLUE</td>
<td>Regulation</td>
<td>Status requiring action</td>
<td>Reset function</td>
</tr>
<tr>
<td>WHITE</td>
<td>Non-specific</td>
<td>Functions start</td>
<td>Available for any functions except, except for emergency stop, e.g.</td>
</tr>
<tr>
<td>GREY</td>
<td></td>
<td></td>
<td>ON/OFF; Stop/Start</td>
</tr>
<tr>
<td>BLACK</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Dimensions (in mm)

Switches

16 A, 25 A and 32 A

Switch, 1+2-pole

Switch, 3+4-pole
Pushbuttons and indicator lights

Pushbuttons

Indicator lights
## Approval and standards

Switches, pushbuttons, indicator lights

<table>
<thead>
<tr>
<th>Devices</th>
<th>Germany</th>
<th>Denmark</th>
<th>Norway</th>
<th>Russia</th>
<th>Swiss-</th>
<th>USA</th>
<th>Poland</th>
<th>China</th>
<th>Shipping classification companies</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VDE</td>
<td>DEMKO</td>
<td>NEMKO</td>
<td>GOST</td>
<td>CE</td>
<td>UL</td>
<td>cURus</td>
<td>BBJ</td>
<td>CCC</td>
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<tr>
<td>Switches</td>
<td>E211</td>
<td>■</td>
<td></td>
<td></td>
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<tr>
<td>Change over switches</td>
<td>E213</td>
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<tr>
<td>Group switches</td>
<td>E214</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control switches</td>
<td>E218</td>
<td>■</td>
<td></td>
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<tr>
<td>Pushbuttons</td>
<td>E215</td>
<td>■</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Luminous pushbuttons</td>
<td>E217</td>
<td>■</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicator lights (1 LED)</td>
<td>E219</td>
<td>■</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicator lights (2 &amp; 3 LEDs)</td>
<td>E219</td>
<td>■</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- ■ devices are approved
- □ in preparation
- ○ not required
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Due to possible changes in regulatory requirements and materials, the characteristics and dimensions stated in this catalogue are only to be considered as binding after confirmation from ABB.