The Shutter Actuator JA/S 4.SMI.1M controls four independent groups, each with up to 4 SMI shutter or roller blind drives via the EIB / KNX. The operating buttons on the device can be used to manually raise and lower the shutter/blind as well as to stop it and adjust it in stages. The operating state, information concerning the respective channels as well as the current direction of motion or position of the shutter/blind are displayed via LEDs.

The Shutter Actuator is a rail-mounted device for insertion in the distribution board. The connection to the ABB i-bus® EIB / KNX is established via a terminal.

### Technical data

**Power supply**
- Operating voltage: 230 V AC +10/-15%, 45 ... 65 Hz
- Bus voltage: 21 ... 30 V DC via EIB / KNX
- Current consumption EIB / KNX: < 12 mA
- Power consumption EIB / KNX: Max. 250 mW
- Power consumption 230 V AC: Max. 2 W
- Leakage loss: Max. 1.8 W

**Outputs**
- 4 independent SMI outputs for up to 4 SMI drives each
- SMI control voltage: 18 V DC
- SMI cable lengths: Max. 350 m

**Operating and display elements**
- Red LED and button: For assignment of the physical address
- Manual operation: 2 buttons per output for up and down (long operation) or stop/louvre adjustment (short operation)
- Display direction of motion / end positions / status: 2 LEDs per output for up / down, top / bottom, SMI communication, alarm
- Mode: 1 button for switchover between manual operation and operation via EIB / KNX
- Operating mode display: 1 LED for indication of the operating mode (manual operation / EIB / KNX)

**Connections**
- EIB / KNX: Bus connection terminal (black/red)
- SMI: 2 screw terminals per output (I+; I-)
  - Conductor cross-section:
    - stranded: 0.2 ... 2.5 mm²
    - single-core: 0.2 ... 4 mm²
- 230 V AC power supply: 2 screw terminals for L
  - 2 screw terminals for N
  - Conductor cross-section:
    - stranded: 0.2 ... 2.5 mm²
    - single-core: 0.2 ... 4 mm²

**Enclosure**
- IP 20, EN 60 529

**Ambient temperature range**
- Operation: – 5°C ... + 45°C
- Storage: – 25°C ... + 55°C
- Transport: – 25°C ... + 70°C
ABB i-bus® EIB / KNX
Shutter Actuator with Manual Operation
4-fold, SMI, MDRC
JA/S 4.SMI.1M, 2CDG 110 028 R0011

<table>
<thead>
<tr>
<th>Design</th>
<th>Modular installation device, ProM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing, colour</td>
<td>Plastic housing, grey</td>
</tr>
<tr>
<td>Installation</td>
<td>On 35 mm mounting rail to DIN EN 50 022</td>
</tr>
<tr>
<td>Dimensions</td>
<td>90 x 72 x 64.5 mm (H x W x D)</td>
</tr>
<tr>
<td>Mounting depth / width</td>
<td>68 mm / 4 modules at 18 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 0.25 kg</td>
</tr>
<tr>
<td>Mounting position</td>
<td>As required</td>
</tr>
<tr>
<td>Approvals</td>
<td>EIB / KNX; SMI</td>
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<tr>
<td>CE mark</td>
<td>In accordance with the EMC guideline and low voltage guideline</td>
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</table>

### Application program

<table>
<thead>
<tr>
<th>Application program</th>
<th>Number of communication objects</th>
<th>Max. number of group addresses</th>
<th>Max. number of associations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shutter SMI 4f M/1</td>
<td>134</td>
<td>250</td>
<td>250</td>
</tr>
</tbody>
</table>

**Note:** The programming requires EIB Software Tool ETS2 V1.1.3 or higher. If ETS3 is used, a “.VD3” type file must be imported. The application program is available in ETS2 / ETS3 under ABB/shutter/switch.

### Circuit diagram

![Circuit diagram]

1. Label carrier
2. Programming LED/button
3. Bus connection terminal
4. 230 V AC power supply
5. LED and “Man.” button
6. SMI connection terminal (I+; I-)
7. LED UP / DOWN / Position
8. Buttons UP / DOWN / Stop / louvre adjustment
ABB i-bus® EIB / KNX  Shutter Actuator with Manual Operation
4-fold, SMI, MDRC
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Dimension drawing
ABB i-bus® EIB / KNX

Shutter Actuator with Manual Operation

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Notes