**Product Information**

**ABB i-bus® EIB / KNX**

**SMI Shutter Actuator**

**JA/S 4.SMI.1M**

Intelligent Installation Systems

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**Technical Data**

**Shutter Actuator with Manual Operation, JA/S 4.SMI.1M**

- **Power supply**: 230 V AC +10/-15%, 45 ... 65 Hz
- **SMI outputs**: 4 independent SMI outputs for up to 4 SMI drives
- **SMI control voltage**: 18V DC
- **SMI cable length**: Max. 350 m
- **Manual operation**: 2 push buttons per output for Up/ Down/ Stop/ Step
  - 1 push button for toggling between manual operation and control via the ABB i-bus® EIB / KNX
- **Display of direction of movement/end positions/status**: 2 LEDs per output for move Up/ Down,
  - end position Up/ Down, SMI communication, alarm
- **Display of operating state**: 1 LED for displaying manual operation/
  - control via the EIB / KNX
- **SMI connections and 230 V AC power supply**: Finely stranded: 0.2 ... 2.5 mm²
  - Single-core: 0.2 ... 4 mm²
- **Temperature range**: Operation 5 °C ... + 45 °C
  - Storage 25 °C ... + 55 °C
  - Transport 25 °C ... + 70 °C
- **Design**: Modular installation device, profi
- **Installation**: On 35 mm mounting rail in accordance with DIN EN 50 022
- **Dimensions**: 90 x 72 x 64.5 mm (H x W x D)
- **Certification**: EIB / KNX, SMI

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**Ordering Information**

<table>
<thead>
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* MW = Module Width 18 mm

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The information in this leaflet is subject to change without further notice.

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Your EIB / KNX-Partner
The new Shutter Actuator JA/S 4.SMI.1M allows the convenient control of SMI shutter and blind drives via the ABB i-bus® EIB / KNX. The device converts EIB / KNX telegrams via the integrated SMI interface into SMI telegrams which can be processed in the drives. The shutter actuator can also receive status and diagnosis signals from the drives that can be displayed using, for example, visualization software or display panels.

An overview of the essential functions:
- Movement Up/ Down, Stop/ louvre adjustment
- Move into position (up to 4 preset positions)
- Set position
- Move to position 0% ... 100%
- Scenes
- Automatic sun protection
- Automatic temperature and energy saving function
- Monitoring of wind, rain and frost alarms (cyclical)
- Block and forced operation
- Status display: positions/ louvre position/ end positions
- Operation mode, SMI failure, auxiliary voltage
- Diagnosis of SMI communication and drive function
- Modification of parameter settings via the EIB / KNX

Benefits of SMI technology compared to traditional shutter control:
- The shutter can be positioned more precisely
- Status signals from the drive can be evaluated via the EIB / KNX

Cable lengths up to 350 metres can be accommodated by the intelligent SMI circuit interface. This means there are virtually no limitations that need to be taken into account during the planning and installation.

The digital SMI communication between the actuator and the drives is supported by numerous manufacturers and has established itself as a standard in digital sun protection. SMI-certified products of different manufacturers are compatible and can be operated simultaneously in an installation by the JA/S 4.SMI.1M.

Many functions that cannot be realised with conventional drives are implemented with simple but powerful standard commands, e.g., commands for precise movement into intermediate positions or querying of current position and diagnosis.

The Shutter Actuator JA/S 4.SMI.1M and the drives can be connected via a 5-core cable with a maximum length of 350 metres. Three cores are used for phase, neutral and PE and the remaining two for the SMI data transfer (I+ and I-). The data transfer is highly robust, such that standard mains cable can be used.

The SMI signal lines are protected against polarity reversal so that an incorrect connection cannot damage the actuator or drives. In addition the SMI circuit is also protected against overvoltage.

The data transfer takes place in both directions at 2400 bits per second. Together with the extremely efficient standard commands, a fast response is achieved.
Digital Sun Protection in Intelligent Installation Systems

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Simple Commissioning

No direct commissioning of the SMI components is required for use via the EIB / KNX. The shutter actuator is connected to 230 V, the EIB / KNX and SMI data cable and commissioned via the ETS.

The Shutter Actuator JA/S 4.SMI.1M from ABB STOTZ-KONTAKT has 4 independent SMI outputs available. If only one drive is connected to an output, the full functionality is available, in particular the use of the status signals from the drive.

A maximum of 4 SMI drives can be connected in parallel to an output. All the connected drives of an output are controlled as one group. This operating mode is particularly suitable for offices with 2 or more windows, in which the shutters are to be controlled in parallel.

The Connection for Digital Sun Protection

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