ABB i-bus® EIB
Shutter Actuators
Product Range Overview I

- Shutter Actuator, 2fold, 230 V AC (4 modules)

- Shutter Actuator, 4fold, 230 V AC (4 modules)
Product Range Overview II

- Shutter Actuator, 8fold, 230 V AC (8 modules)
Product Range Overview III

- Shutter Actuator with Manual Switches, 4fold, 230 V AC (4 modules)

- Shutter Actuator with Manual Switches, 8fold, 230 V AC (8 modules)
Product Range Overview IV

- Shutter Actuator, 4fold, 24 V DC (4 modules)

- Shutter Actuator Standard, 4fold, 230 V AC (4 modules)
Shutter Actuator with Manual Switches

- 2 push buttons per output (long: up/down – short: stop/step)
- 2 LEDs per output (display of actual position)
- Push button and LED for changing between EIB and manual operation

Manual Operation:
- with EIB, no 230 V AC supply voltage,
- no EIB, with 230 V AC supply voltage,
- with EIB and 230 V AC supply voltage
Application Program

- All application programs are identical (exception: RA/S 4.230.1)
- Functions:
  - Move to position
  - Call scene and set scene
  - Safety and Security functions
  - Sun protection automatic control
  - Heating/Cooling automatic control
  - Status feedback
- Additional functions for Shutter Actuators with Manual Switches
Application Program

Move to Position

- Choice between direct and indirect positioning

- 2 objects „Move to position 0...255“:
  - 1 Byte for height of shutter/sunblind
  - 1 Byte for blind angle

- 2 objects „Move to preset position“:
  - 1 Bit for Move to position 1 („0“) and position 2 („1“)
  - 1 Bit for Move to position 3 („0“) and position 4 („1“)

- 2 objects „Set preset position“:
  - 1 Bit for setting preset 1 („0“) and setting preset 2 („1“)
  - 1 Bit for setting preset 3 („0“) and setting preset 4 („1“)
Application Program

Call scene and set scene

- 8 Bit scenes:
  - only 1 group address for up to 64 scenes
  - all EIB participants are connected to this group address
  - all scene positions are set within the actuators
  - all scene positions can be changed via EIB

- Content of the 8 Bit telegram:
  - No. of the scene (6 Bit)
  - the information „Recall scene“ or „Set scene“ (1 Bit)
  - 1 Bit not used

- Shutter Actuators:
  - Each output can be integrated in up to 10 scenes
Application Program

Safety and Security Functions

- 3 objects „Wind alarm“ (1 Bit):
  - Up to 3 wind alarm objects can be activated
  - Cyclical control of wind sensor(s)
  - Reaction on wind alarm individual for each output

- 2 objects „Rain alarm“ and „Frost alarm“ (1 Bit):
  - Cyclical control of sensors
  - Reaction on rain/frost alarm individual for each output

- 1 object „Block operation“ (1 Bit) for each output

- 1 object „Forced control“ (2 Bit) for each output
- Priority of safety and security functions parameterable
Application Program

Sun Protection Automatic Control I

Example „Simple sun protection automatic control“:

No sun
→ Sunblind up

Sun
→ Sunblind down and blinds closed
Application Program

Sun Protection Automatic Control II

Example „Day light control“:
Application Program

Sun Protection Automatic Control III

- Automatic Control can be activated individually for each output

- Position when the sun is shining:
  - according parameterized preset value or
  - according 1 Byte position telegram 0...255
Application Program

Heating/Cooling Automatic Control I

Example:

Heating period

Sun:
→ inside up
→ outside up

No sun:
→ inside down
→ outside up

Cooling period

Sun:
→ inside down
→ outside down

No sun:
→ inside down
→ outside up
Application Program

Heating/Cooling Automatic Control II

- Automatic Control can be activated individually for each output
- Change between Sun protection and Heating/Cooling automatic control via EIB
- Position when the sun is shining / not shining:
  - According parameterized preset value
Application Program

Status Feedback

- 4 objects „Status position“:
  - 2 x 1 Byte: Height of shutter/sunblind and blind angle 0...255
  - 2 x 1 Bit: upper / downer final position reached

- 1 object „Status operation“ (1 Bit):
  - „0“: operation blocked (e.g. because of wind alarm)
  - „1“: operation allowed

- 1 object „Statusbyte“ (1 Byte):
  - Actual status of shutter actuator

- 1 object „Status automatic control“ (1 Bit):
  - „0“: Automatic control deactivated
  - „1“: Automatic control activated
Application Program

Additional Functions for Shutter Actuators with Manual Switches

- 1 object „Block/allow manual operation“ (1 Bit):
  - „0“: Operation blocked
  - „1“: Operation allowed

- 1 object „ Status manual operation“ (1 Bit):
  - „0“: EIB operation
  - „1“: Manual operation

- 1 Object „Status supply voltage“ (1 Bit):
  - „0“: Supply voltage not OK
  - „1“: Supply voltage OK
Application Program

Functions of the Application Program for the Shutter Actuator Standard, 4fold, 230 V AC

- Move Up/Down
- Stop/Step
- Wind alarm