

KNX Shutter/Blind Actuator 6-fold

JA.6.230 – EIBMARKT GmbH
6f. Shutter/Blind (230V)
Article-No.: JA.6.230
Order-No.: N000303

(Source: EIBMARKT GmbH)

The blind actuator JA.6.230 receives data telegrams via EIB and controls up to 6 blinds, shutters, awnings, ventilation flaps or similar drives. Different outer conductors can be connected to each output. The JA.6.230 is a very compact device with only 6 horizontal pitches to be fixed on a 35mm DIN-bar and for installation in electric distribution systems. Power for this device is supplied via bus; no other power supply is required. All drives that dispose of separate connections for „Up“ and „Down“ can be used. Drives that change their driving direction resulting from a polarity change cannot be actuated.

High-quality relays were used for the outputs. Their maximum load is 3A, AC3. Common blind drives take an operating voltage of 230V, approx. 0.5..0.8 A. Thus, up to 3 drives can be operated at one output simultaneously. In this case, the drives have to be decoupled by means of a cut-off relays (additionally, externally). The life time of the contacts of each relay depends on the contact coating, the connected load the switching frequency (switching cycles).

In connection with the ETS-database and the application software „blind, shutter, measured values“, the actuator serves to control up to 6 independent electric drives with different functions set individually for each output. The software permits the use of a variety of parameters and functions to operate the building facilities (blinds, shutters, ventilation flaps) in the most convenient, automatic and energy-efficient way. Besides the option to switch the connected drives in a defined way in case of a bus malfunction, it is possible to define the blind/shutter/ventilation flap status even after bus recovery. Energy for this device is supplied via the KNX bus; no other power supply is required.

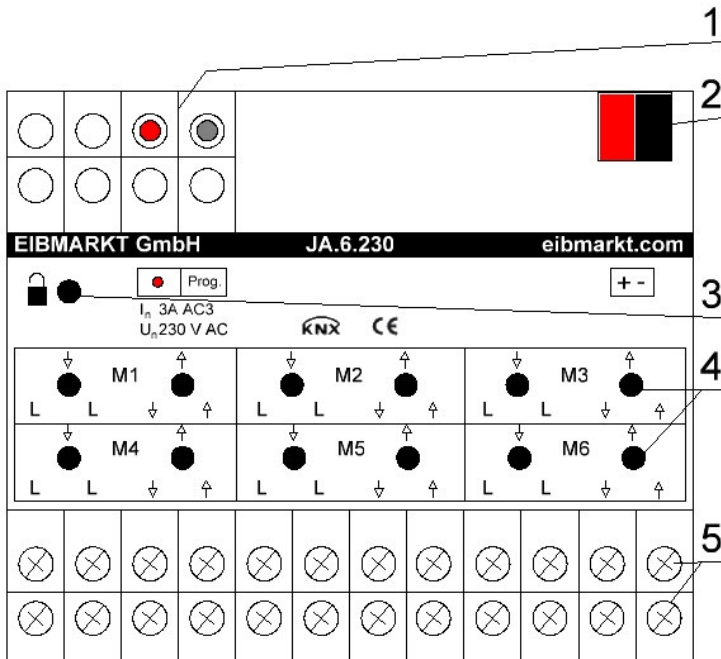
In addition to the 6 drive outputs the device software disposes of 6 independent software modules to process the measured values. Measured values received via KNX can be corrected /adapted and forwarded. At the same time these measured values can be used as alarm for the connected drives as soon as the adjustable limits are exceeded. In this way, for example, a wind sensor can be used to move the blind/shutter up in case of a storm. Connection to the bus (KNX TP1) is ensured by means of the included bus terminal. The drives are connected by means of integrated screw terminals.

Due to potential-free contacts, the outputs M1 to M6 are able to switch electric blind and shutter drives with a current of up to 3A AC3 at 230V. Using the integrated push-buttons the connected load circuits can also be controlled manually.



Technical data:

- Energy supply/Control/Programming: 29V DC, bus terminal
- Control and display elements: LED red and key for programming of the physical address
- 12 keys, drive direction/stop for manual switching of the drives
- 1 key, release of manual operation
- Outputs as potential-free contacts
- Load circuits via screw terminals: min. \varnothing 0.1mm / max. 2x 2.5mm²
- Nominal voltage, load: 230V AC
- Nominal current max.: 3A AC3
- Minimum load: 10 mA, 5V DC
- Contact life time, electric: 150,000 switching cycles
- Contact life time, mechanic: 1,000,000 switching cycles
- Protection type: IP20, acc. to EN 60529
- Ambient temperature, operation: -5°C...45°C
- Ambient temperature, storage: -25°C...55°C
- Ambient temperature, transport: -25°C...70°C
- Assembly: Mounting rail 35mm, DIN EN 50022
- Dimensions: 105 x 90 x 60 (W x H x D)
- Weight: 0.4kg
- Approbation / Certifications
 - KNX Certification: EN 50090-2-2
 - CE-label: EMC standard and low-voltage directive
- Product data base ETS: ETS4 or higher
- Application software: blind, shutter, measured values
 - Blind actuator
 - Shutter actuator
 - Ventilation flap actuator
 - Automatic functions
 - Measured value processing



Connection scheme:

1. Push button and LED for programming the physical address
2. Bus connection (+/-), EIB, KNX TP1
3. Release key for manual operation
4. Push button drive direction/stop for manual drive control
5. Screw terminals for blind drive connection

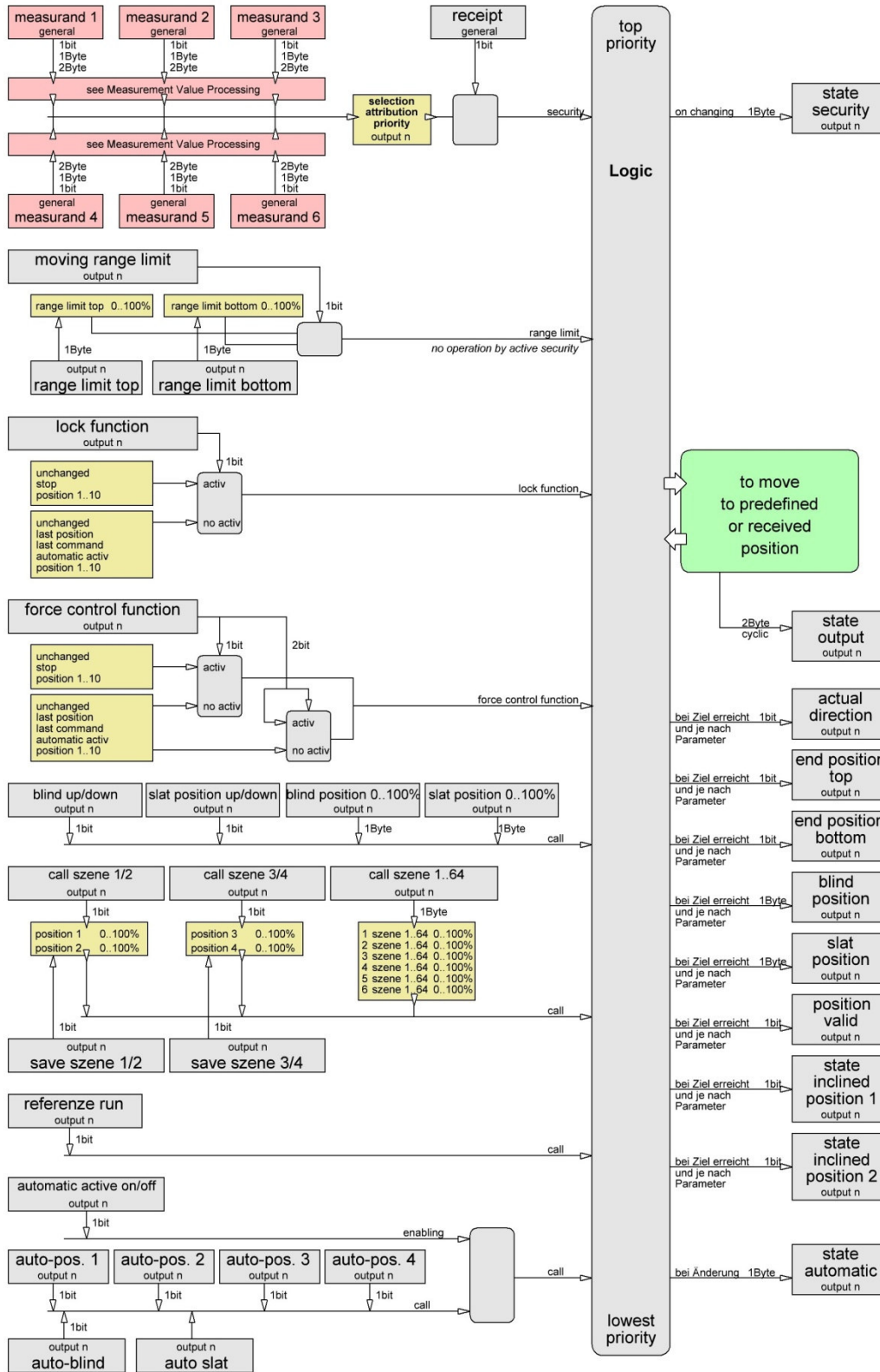
Application description

Selection in the ETS:

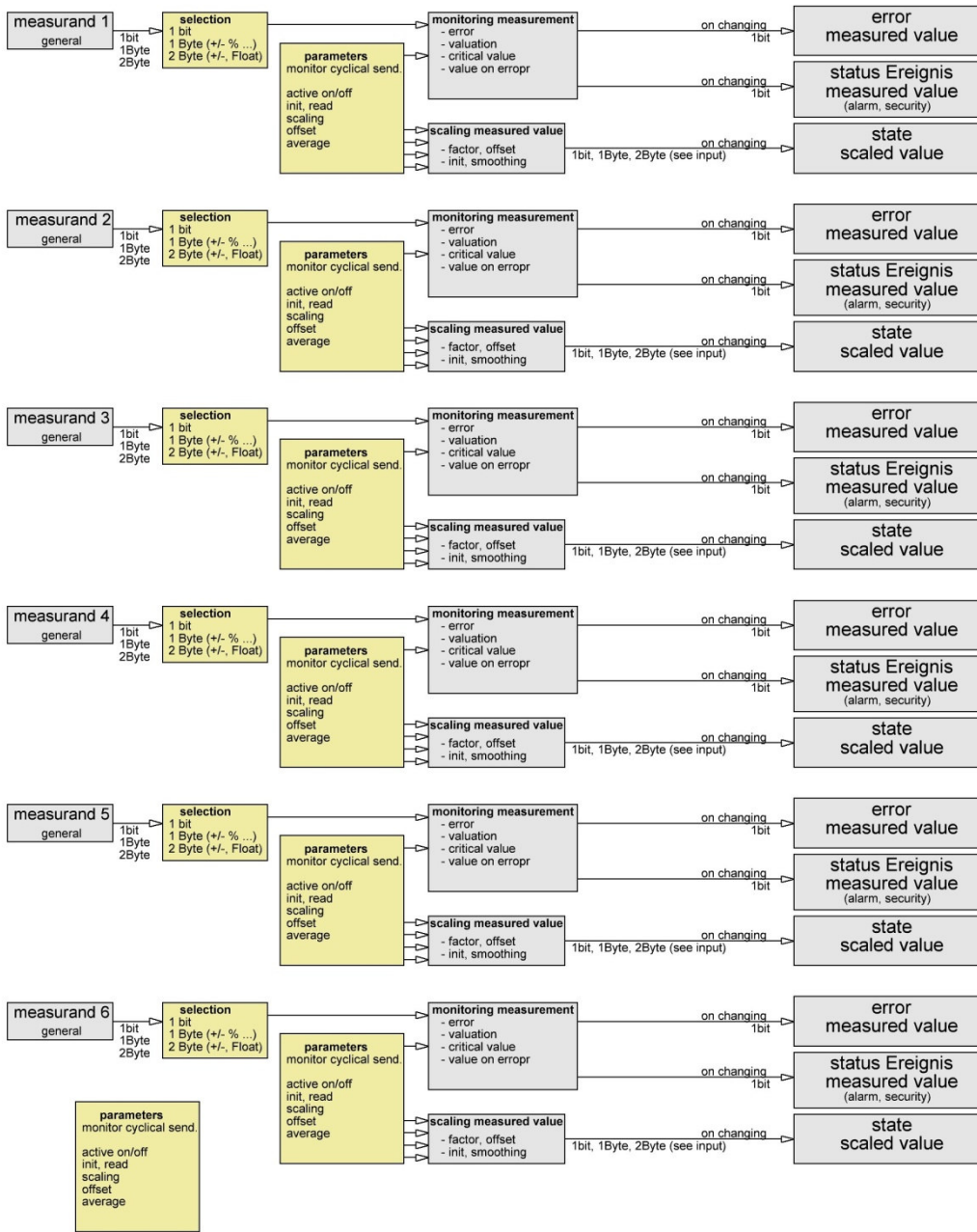
Manufacturer: EIBMARKT GmbH
 Product group: Output
 Product: JA.6.230
 Program designation: blind, universal

Using the ETS (ETS4 or higher) a series of parameters and functions can be set for each output. Depending on the selection made different adjustment options and objects are visible or invisible. A detailed explanation of existing functions and parameters can be found in the online Help for the ETS.

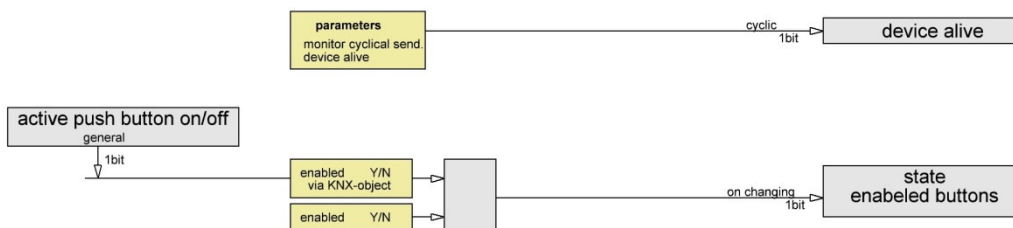
Schematic Drive Control



Schematic Measurement Value Processing



Schematic Device Functions





For a current product database and further information visit: www.eibmarkt.de or send your enquiry to: info@eibmarkt.de.

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