

## AKK-0216.03

KNX Switch Actuator 2-channel, 2 SU MDRC, 16 A, 230 V AC, compact, 70  $\mu$ F, 10 ECG



### Product description:

The compact MDT Switch Actuator AKK for small to medium loads offers comprehensive functions. The four channel switch actuator requires 2 SU MDRC in a distribution board, half the space required in comparison to comparable actuators. The maximum switching capacity is 16 A and 70  $\mu$ F C-Load

### Product functions:

- **Function extension**
- Push-button for manual operation and LED Indicator per channel
- Normally open and normally closed
- Status feedback for all channels (also for manual operation)
- Time functions (switch-on / switch-off delay)
- Comprehensive staircase lighting and pulse functions
- Logical functions
- Extended scene function per channel
- Central functions and blocking objects for forced operation
- Behaviour on Bus power failure/reset selectable
- **Common L- connection**
- Power supply over the KNX Bus
- Fast application download (long frame support as of ETS 5)
- 3 year warranty

## Technical data:

|  |   |                                |
|--|---|--------------------------------|
| <b>Device</b>                            | Device type                                     | AKK Switch Actuator            |
|  | Article Number                                  | AKK-0216.03                    |
|  | EAN / GTIN                                      | 4251916130237                  |
|  | Installation width                              | 2 SU / 36 mm                   |
|  | Dimensions (H x W x D)                          | 90 x 36 x 65 mm                |
|  | Weight, gross (incl. packaging)                 | 0.124 kg                       |
|  | Protection classification                       | IP20                           |
|  | Installation type                               | MDRC, DIN rail 35 mm           |
|  | Installation position                           | any                            |
|  | Weight, net                                     | 0.105 kg                       |
|  | Mechanical manual override                      | No                             |
|  | <b>Performance data</b>                         | Nominal voltage $U_n$          |
| Nominal frequency                        |   | 50/60 Hz                       |
| Relay type                               |   | bistable                       |
| Mech. switching frequency                |   | 1.000.000                      |
| Capacitive load                          |   | 70 $\mu$ F / 16 A              |
| Fluorescent lamp load AX                 |   | $\leq$ 16 AX                   |
| Power dissipation of the device, typical |   | $\leq$ 3 W                     |
| <b>Outputs</b>                           | Number of outputs                               | 2                              |
| <b>Lamp data</b>                         | Incandescent lamp load                          | 2000 W                         |
|  | HV-Halogen lamps                                | 2000 W                         |
|  | NV-Halogen lamps                                | 1200 W                         |
|  | Fluorescent lamp uncompensated                  | 1800 W                         |
|  | Fluorescent lamp parallel compensation          | 800 W                          |
|  | Max. number of ECG                              | 10                             |
| <b>Currents</b>                          | Inrush current (150 $\mu$ s)                    | 300 A                          |
|  | Inrush current (600 $\mu$ s)                    | 150 A                          |
|  | Total current carrying capacity of the actuator | 16 A                           |
| <b>KNX</b>                               | Nominal voltage KNX                             | 30 V DC SELV                   |
|  | Voltage range KNX                               | 21 ... 31 V DC SELV            |
|  | Typical power consumption KNX bus               | < 0,3 W                        |
|  | KNX Medium                                      | TP-256 with long frame support |
|  | KNX Application                                 | as of ETS 4                    |

## Technical data:

|                                 |                               |                                  |
|---------------------------------|-------------------------------|----------------------------------|
| <b>Environmental conditions</b> | Ambient operating temperature | 0 ... 45 °C                      |
|                                 | Storage                       | -20 ... +55 °C                   |
|                                 | Humidity                      | < 95 %                           |
|                                 | Condensation permissible      | No                               |
| <b>Connections</b>              | Connection type               | Screw terminal with slotted head |
|                                 | Conductor cross section 1 x   | 0,5 ... 2,5 mm <sup>2</sup>      |
|                                 | KNX connection type           | KNX terminal                     |
|                                 | KNX cable cross section       | 0.6 ... 0.8 mm, solid conductor  |

## Hinweise

Protection against induced voltage spikes: To protect against voltage spikes when switching off inductive loads, it is recommended to use appropriate protective circuits such as flyback diodes, RC networks, or varistors directly at the actuator output.

\*1 Mixed operation of nominal and safety extra low voltage (SELV) within the actuator is not permitted!

## Wiring diagram:

