

# ABB i-bus® KNX

## Product Selection Guide - Universal Dim Actuators, LED Dimmers

|   | Universal Dim Actuators      |                                     | LED Dimmer with constant curve |   |
|---|------------------------------|-------------------------------------|--------------------------------|---|
|   | UD/S 2.300.2                 | 6197/x-101-500<br>(x=12-15, 52, 53) | 6155/30-500<br>1–4 fold        | 6155/40-500<br>1–4fold<br>with power supply |
| <b>General</b>  |                              |                                     |                                |   |
| Supply voltage  | 230 V -15/+10 %, 50/60 Hz    | 230 V AC ± 10 %, 50/60 Hz           | 12...24 V DC                   | 230 V AC ± 10%, 50/60 Hz                    |
| Type of installation  | MDRC                         |                                     | Wall (surface)                 |   |
| Module width (18 mm)  | 4                            | 8/12                                | –                              | –   |
| Number of outputs   | 2                            | 1, 4, 6                             | 4                              | 4   |
| Maximum load per channel  | 2 x 300 W,<br>or 1x 500 W/VA | 210, 315, 600, 1260,<br>2400 VA     | 1 x 10 A<br>/<br>4 x 2.5 A     | 1 x 4 A<br>/<br>4 x 1 A                     |
| Incoming supply   | 2 phase inputs               | 3 phase inputs                      | 1 phase input                  | 1 phase input                               |
| <b>Load types</b>   |                              |                                     |                                |   |
| 230 V incandescent lamps  | ■                            | ■                                   | –                              | –   |
| 230 V halogen lamps   | ■                            | ■                                   | –                              | –   |
| Low-voltage halogen lamps with conventional transformers or electronic transformers | ■                            | ■                                   | –                              | –   |
| LED strips or 12/24V lamps  | –                            | –                                   | ■                              | ■   |
| LED Retrofit 230 V  | –                            | ■ <sup>1)</sup>                     | –                              | –   |
| Grouping of channels for load increase  | ■ <sup>2)</sup>              | ■                                   | ■                              | ■   |
| <b>Switching</b>  |                              |                                     |                                |   |
| Brightness value when turned on   | ■                            | ■                                   | ■                              | ■   |
| Dimming speed for switching on and off  | ■                            | ■                                   | ■                              | ■   |
| <b>Dimming</b>  |                              |                                     |                                |   |
| Change of dimming speed via KNX   | ■                            | ■                                   | ■                              | ■   |
| Min. and max. dimming values  | ■                            | ■                                   | ■                              | ■   |
| Switching on/off via rel. dimming   | ■                            | ■                                   | ■                              | ■   |
| <b>Brightness</b>   |                              |                                     |                                |   |
| Dimming speed while setting brightness values                                       | ■                            | ■                                   | –                              | –   |
| Min. and max. value limits  | ■                            | –                                   | –                              | –   |
| Switching on/off via value  | ■                            | ■                                   | ■                              | ■   |

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| <b>Further functions</b>  |                         |                                     |                                |   |
| Forced operation  | ■                       | –                                   | –                              | –   |
| Dimming curve adjustment  | ■                       | ■                                   | –                              | –   |
| Reaction on bus voltage failure                                     | ■                       | ■                                   | –                              | –   |
| Behavior on bus voltage recovery                                    | ■                       | ■                                   | ■                              | ■   |
| Status feedback   | ■                       | ■                                   | ■                              | ■   |
| Blocking channel  | ■                       | ■                                   | ■                              | ■   |
| Preset  | ■                       | ■                                   | –                              | –   |
| Scenes  | ■                       | ■                                   | ■                              | ■   |
| Phase angle control:<br>automatic, leading or trailing edge         | ■                       | ■                                   | –                              | –   |
| General functions:<br>logic, gate, flashing, etc.                   | –                       | ■                                   | –                              | –   |
| Ripple control  | ■                       | –                                   | –                              | –   |
| Slave mode e.g. for integration in the<br>constant lighting control | ■                       | –                                   | ■                              | ■   |
| Staircase lighting  | ■                       | ■                                   | –                              | –   |

■ = Function is supported

– = Function is not supported

<sup>1)</sup> Selected LED retrofit lamps are tested and approved. Restrictions have to be observed.

Details see Busch-Dimmer® Tool ([www.busch-jaeger.com](http://www.busch-jaeger.com))

<sup>2)</sup> One channel uses 500 W