STO/GM

ABB i-Bus®

Switch-/Dim Actuator SD/S x.16.1

KNX®

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Range of Switch-/Dim Actuator   SD/S x.16.1

- Complete range of Switch-/Dim Actuators SD/S

- Structured ABB i-Bus® product line in techniques

- One application program, clear structure

- Design consistent with Switch Actuators SA/S
  (e.g. manual use and terminals)

- Attractive and smart alternative to the DALI technology

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Switch-/Dim Actuator   SD/S x.16.1

- SD/S 2.16.1

- Modular DIN-Rail Device (MDRC), *proM* Design

- 4 MW, ABB i-bus® EIB / KNX

- 2 independent channels for switching and dimming

- 16A - AC1, 10AX

- 1-10V control output max. 100mA

- 1-10V control wire maximally 100m with 1,5mm^2 cross section

- Supply only over EIB / KNX

- Manual switching and contact position indication without any supply

Switch-/Dim Actuator   SD/S x.16.1

- SD/S 4.16.1

- Modular DIN-Rail Device (MDRC), *proM* Design

- 6 MW, ABB i-bus® EIB / KNX

- 4 independent channels for switching and dimming

- 16A - AC1, 10AX

- 1-10V control output max. 100mA

- 1-10V control wire maximally 100m with 1,5mm^2 cross section

- Supply only over EIB / KNX

- Manual switching and contact position indication without any supply

Switch-/Dim Actuator   SD/S x.16.1

- SD/S 8.16.1

- Modular DIN-Rail Device (MDRC), *proM* Design

- 8 MW, ABB i-bus$^{®}$ EIB / KNX

- 8 independent channels for switching and dimming

- 16A - AC1, 10AX

- 1-10V control output max. 100mA

- 1-10V control wire maximally 100m with 1,5mm^2 cross section

- Supply only over EIB / KNX

- Manual switching and contact position indication without any supply

Design- and Range Overview   SD/S x.16.1

SD/S 2.16.1
16A – AC1
4 MW

SD/S 4.16.1
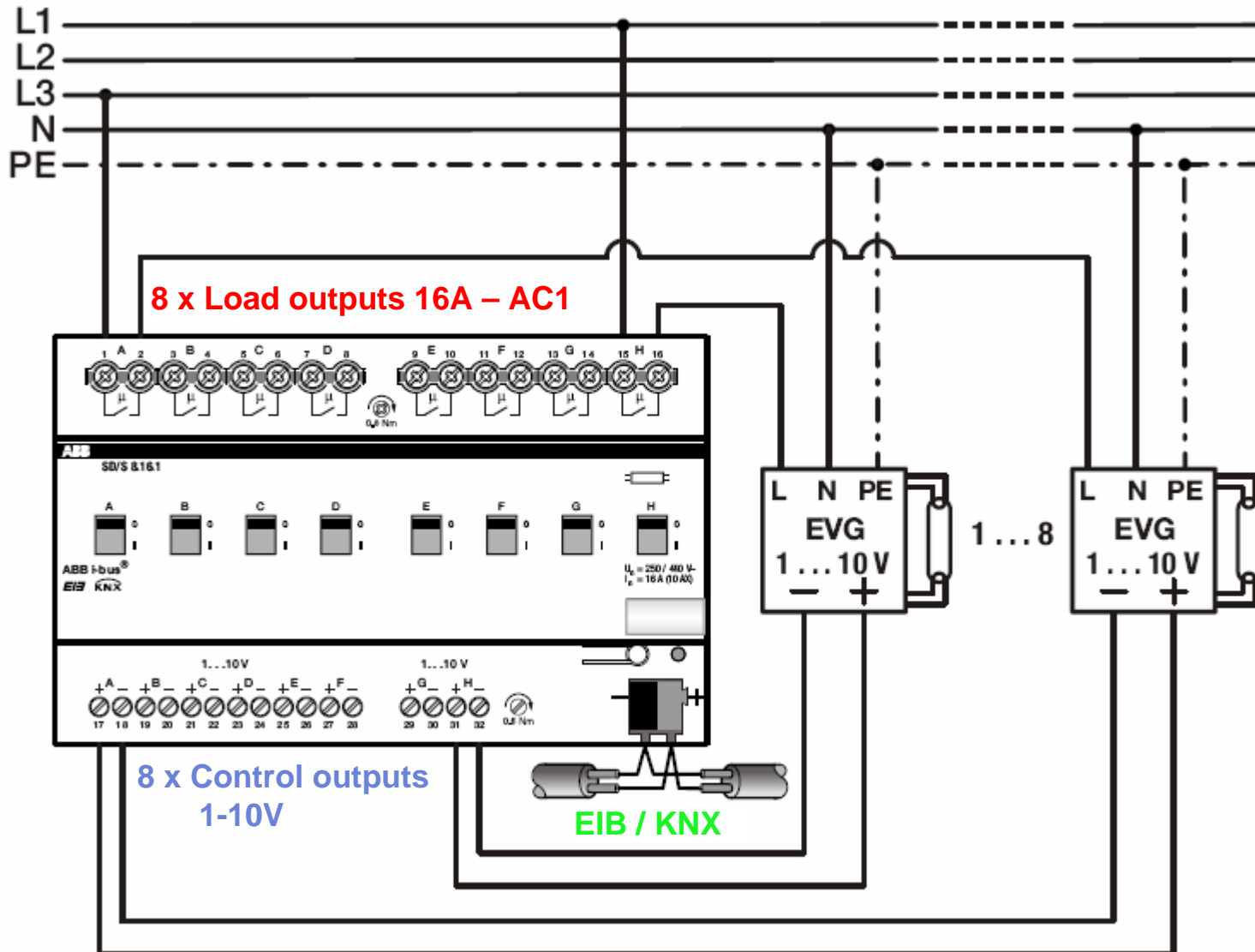16A – AC1
6 MW

SD/S 8.16.1
16A – AC1
8 MW

- 1-10V control outputs each used for maximal 100mA control load

- independent, potential free relays outputs

- 6 mm² terminal with universal head screws for load outputs

- Rated current 16A – AX1, 10 AX (acc. IEC 60947 and IEC 60669)

Max. Peak inrush-current I_p (150μs)	400A
Max. Peak inrush-current I_p (250μs)	320A
Max. Peak inrush-current I_p (600μs)	200A

8 x Load outputs 16A – AC1

8 x Control outputs 1-10V

EIB / KNX

L1
L2
L3
N
PE

EVG 1 . . . 10 V

1 . . . 8

EVG 1 . . . 10 V
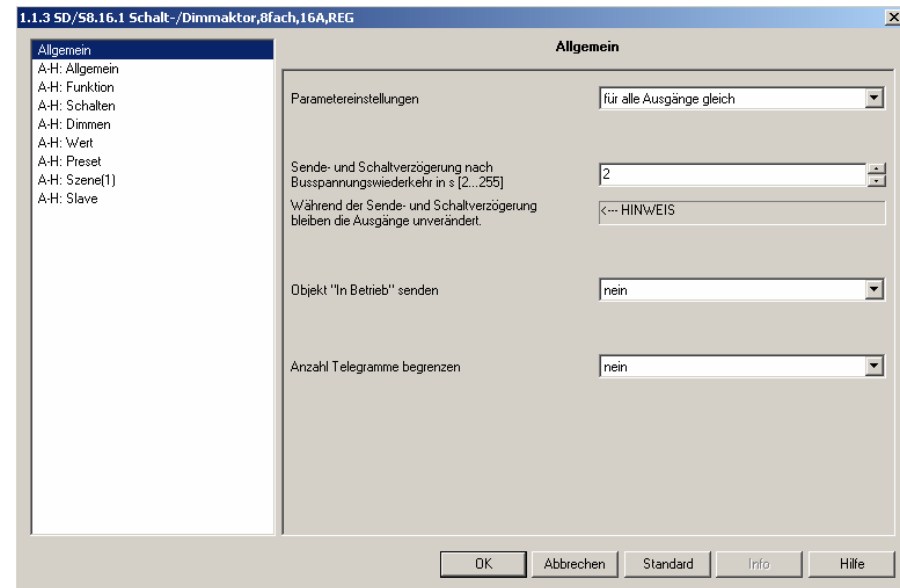
ABB

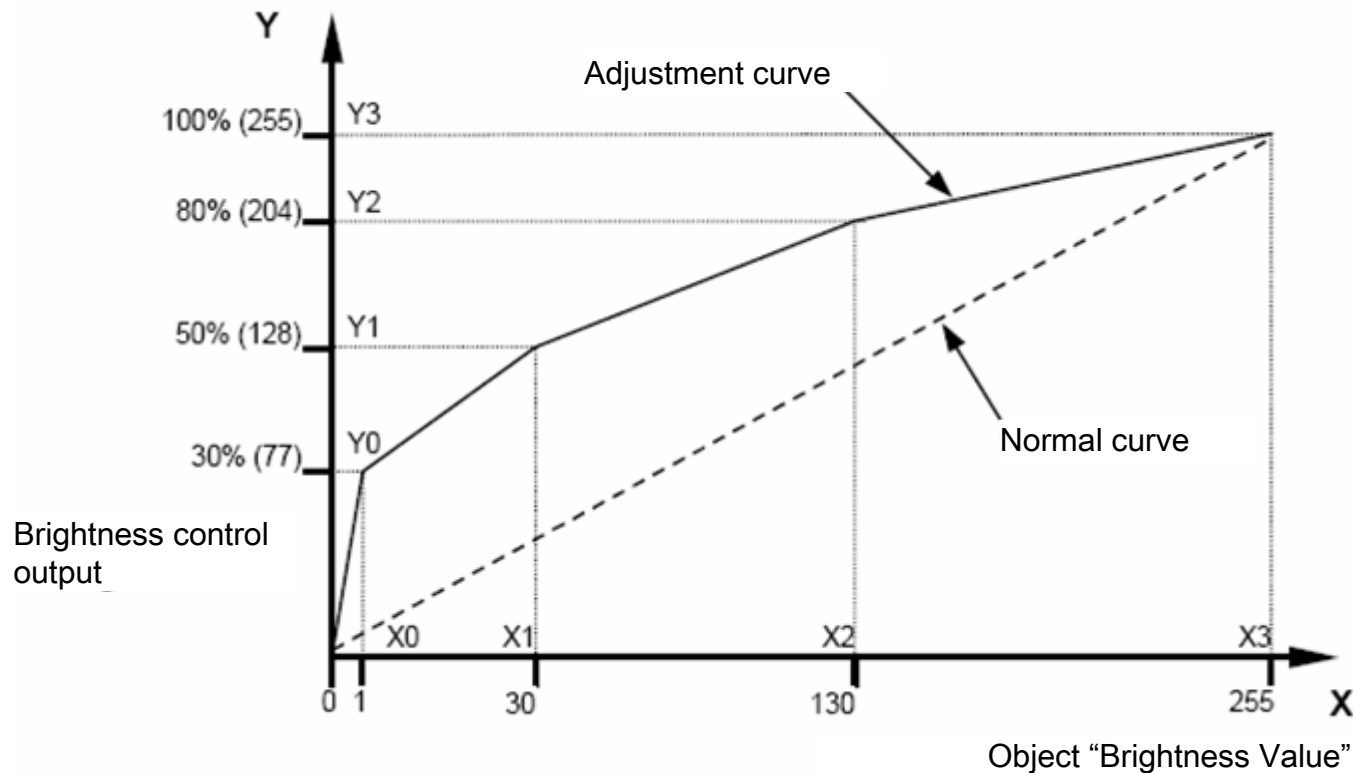# Application program

and

Functions

- Basis is the SD/M Module for Room-Controller

- Parametration of channels individual or together

- Basic functions

  - Switching

  - Dimming

  - Setting brightness value

- 4 Presets and 18 Scenes

- Forced operation (2Bit)

- Blocking of channels

- Staircase function, with integrated warning

- Setting staircase lighting time via bus

- Slave mode in combination with light controller

- Individual dimming speed for

    - Dimming (setting over bus is possible)

    - Switching

    - Setting brightness

- Individual dimming / brightness limit values for

    - Switch, dim and staircase lighting

    - Set of brightness, preset, scenes and slave mode

- Switching status and brightness feedback

- Characteristic curve adjustment to adapt the control output to the lamp characteristic
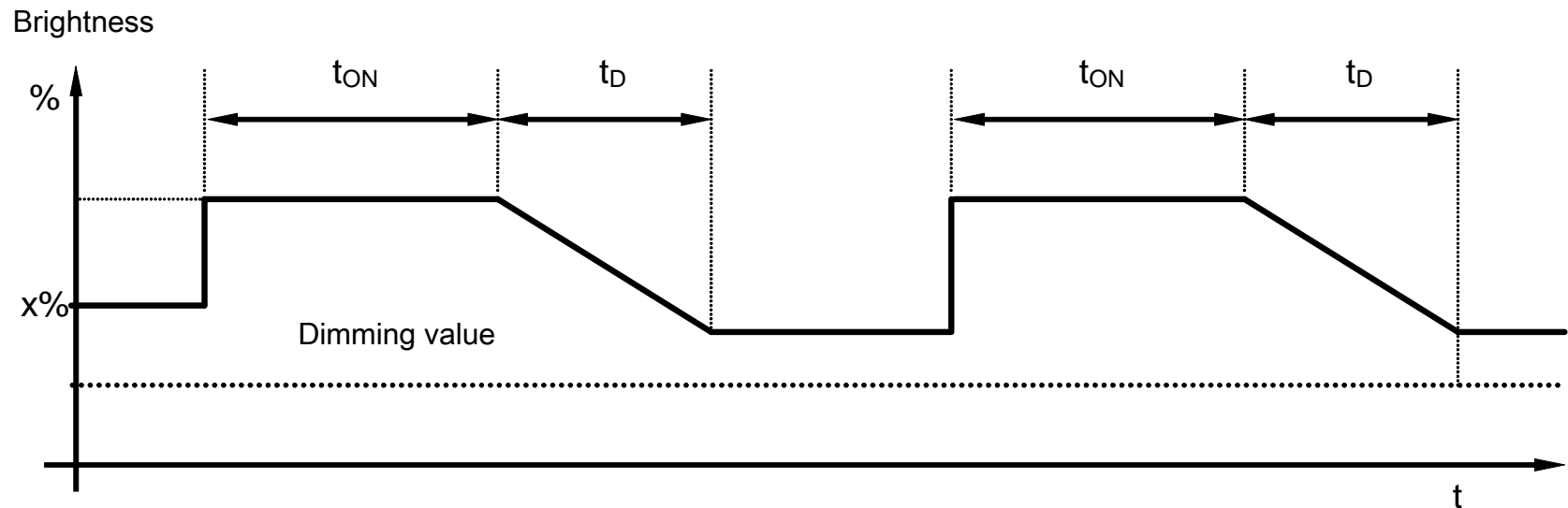
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Characteristic adjustment

- To adapt SD/S control output to lamp characteristic
- Curve with up to 4 value points
- Calculation of a linear curve between value points

Adjustment curve

Normal curve

Brightness control output

Object "Brightness Value"

Staircase function

- ■ Staircase lighting time t_{ON}

- ■ Dimming down time t_D (Warning time)

- ■ Base brightness x%

Brightness

%

t_{ON} t_D t_{ON} t_D

x%

Dimming value

t

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Marketing data

- New product, no existing device is lost

- Chapter 8 „Illumination and Light Sensors"

- Order Code

Type	Order code	EAN-No
SD/S 2.16.1	2CDG 110 079 R0011	40 16779 65996 3
SD/S 4.16.1	2CDG 110 080 R0011	40 16779 65937 6
SD/S 8.16.1	2CDG 110 081 R0011	40 16779 65918 5

**Product
Information**

**Product
Manual**

**Specification Text
and technical Data**

VD3- and VD2

**Presentation
Slides**

ABB

Type Code

SD/S 2.16.1   SD/S 4.16.1   SD/S 8.16.5S

- **SD/S**   - **S**witch-/**D**im Actuator, MDRC
- **SD/S x.**   - x = number of outputs
- **SD/S x.16.**   - 16 = rate current in A
- **SD/S x.16.1**   - 1 = Version

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