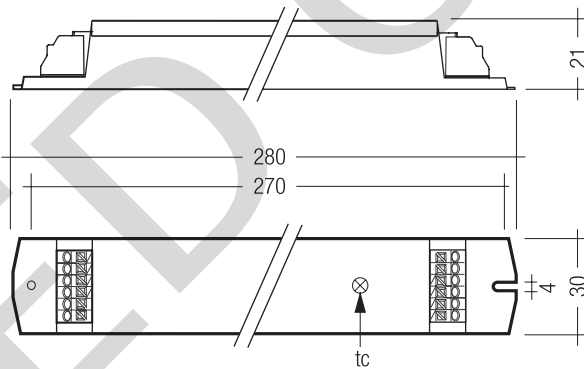




**TALEXconverter 0060 K350 one4all Ip**  
ECO series

### Product description

- Low-profile cross-section (21 x 30 mm)
- Plug-in terminals for simple connection
- 1-channel one4all constant current LED control gear
- Dimming curve adapted to the sensitivity of the eye
- Noise-free precise control via DSI signal, switchDIM or DALI
- Powerless switching via a digital interface (no need for switching via mains)
- Fault reporting and programmable operating parameters in DALI mode
- 1 addressable output channel
- 350 mA PWM output signal
- Short-circuit shutdown
- No-load detection
- Intelligent Temperature Guard (protection against thermal damage)
- Connecting cable, cable cross-section 0.5 – 1.5 mm<sup>2</sup>
- Power input on standby < 2 W
- switchDIM-MEMORY and corridorFUNCTION



### Technical data

Rated supply voltage	220 – 240 V
Rated current (at 230 V 50 Hz)	0.3 A
Mains frequency	50 / 60 Hz
Efficiency	> 90 %
$\lambda$ (at 230 V 50 Hz)	0.95
PWM frequency	400 Hz
Output power	60 W
Output voltage <sup>①</sup>	116 – 195 V
Max. output voltage <sup>②</sup>	420 V
Dimming	DSI, DALI, switchDIM – single switch
Ambient temperature $t_a$	-25 ... +50 °C
Max. casing temperature $t_c$	70 °C
Dimensions LxWxH	280 x 30 x 21 mm
Hole spacing D	268 mm

### Ordering data

Type	Article number	Secondary voltage DC	Secondary current	Packaging carton	Weight per pc.
<b>0060 K350</b>	<b>86458566</b>	116 – 195 V	350 mA	25 pc(s).	0.216 kg

- ① in operation  
② in non-load operation



Standards, page 2

Wiring diagrams and installation examples, page 3

### Standards

EN 55015  
EN 61000-3-2  
EN 61000-3-3  
EN 61347-1  
EN 61347-2-13  
EN 61547  
EN 62384

### Control input (DA/D1, DA/D2)

Digital DALI/DSI signal or switchDIM can be wired on the same terminals (DA/D1 and DA/D2).

### Digital signal DALI/DSI

The control input is non-polar and protected against accidental connection with a mains voltage up to 264 V. The control signal is not SELV. Control cable has to be installed in accordance to the requirements of low voltage installations. Different functions depending on each module.

### switchDIM

Integrated switchDIM function allows a direct connection of a push to make switch for dimming and switching.

Brief push (< 0.6 s) switches LED control gear ON and OFF. The LED control gears switch-ON at light level set at switch-OFF.

When the push to make switch is held, LED modules are dimmed. After repush the LED modules are dimmed in the opposite direction.

In installations with LED control gears with different dimming levels or opposite dimming directions (e.g. after a system extension), all LED control gears can be synchronized to 50 % dimming level by a 10 s push.

Use of push to make switch with indicator lamp is not permitted.

switchDIM and corridorFUNCTION are very simple tools for controlling ballasts with conventional momentary-action switches or motion sensors.

To ensure correct operation a sinusoidal mains voltage with a frequency of 50 or 60 Hz is required at the control input.

Special attention must be paid to achieving clear zero crossings. Serious mains faults may impair the operation of switchDIM and corridorFUNCTION.

### Notes



- Not qualified for uses with protection class III
- For further information on installation please refer to the brochure entitled „Requirements for Installation of Non-SELV LED converters“.

### Dimming

Dimming range 3 % to 100 %

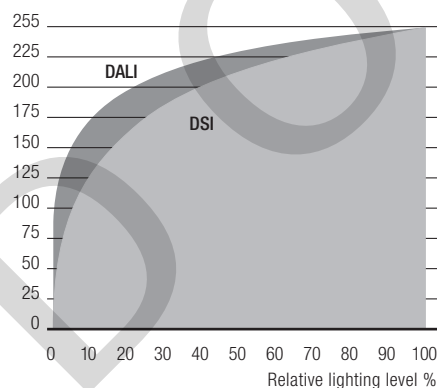
Digital control with:

- DSI signal: 8 bit Manchester Code  
Speed 3 % to 100 % in 1.4 s
  - DALI signal: 16 bit Manchester Code  
Speed 3 % to 100 % in 0.5 s
- Programmable parameter:  
Minimum dimming level  
Maximum dimming level  
Default minimum = 3 %  
Programmable range  $3\% \leq \text{MIN} \leq 49\%$   
Default maximum = 100 %  
Programmable range  $100\% \geq \text{MAX} \geq 50\%$

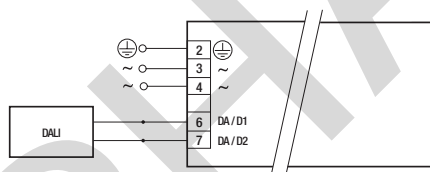
Dimming curve is adapted to the eye sensitiveness.

### Dimming characteristics

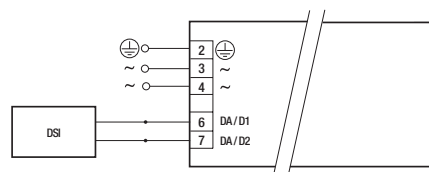
Digital dimming value



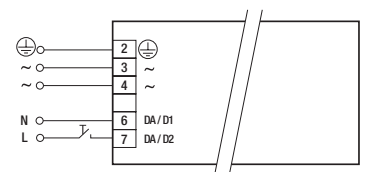
Dimming characteristics as seen by the human eye. A linear dimming characteristic can be activated optionally via DALI.



DALI TALEXconverter 0060 K350 one4all Ip



DSI TALEXconverter 0060 K350 one4all Ip

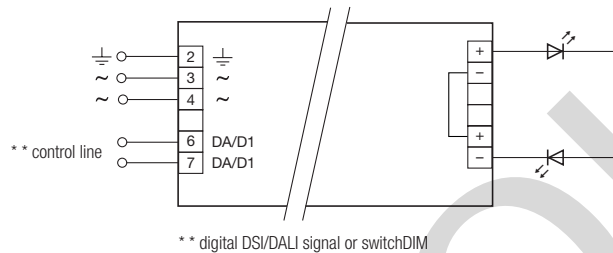
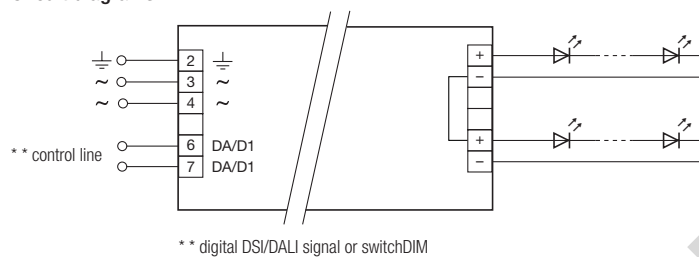


switchDIM TALEXconverter 0060 K350 one4all Ip

### Wiring guidelines

- The cables should be run separately from the mains connections and mains cables to ensure good EMC conditions
- The maximum secondary cable length at the terminals is 5 m. The LED wiring should be kept as short as possible to ensure good EMC
- The LED modules must be operated in series on constant current LED control gear TALEXconverter 0060 K350 one4all Ip
- The LED control gear does not have polarity reversal protection on the secondary side. LED modules that do not have polarity reversal protection may be damaged if polarity is reversed.
- LED control gear is not SELV (output voltage up to 420 V). See EN 60598-1

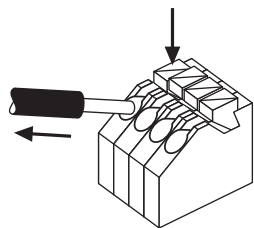
### Circuit diagrams



LED's have to be connected as shown above to work properly. It is possible to connect a different number of LED's on two circuits (like on top picture). The minimum power load has to be connected. Otherwise the LED control gear will switch off.

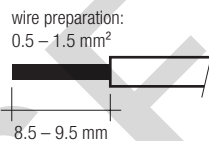
### Release of the wiring

Press down the "push button" and remove the cable from front.



### Wiring type and cross section

The wiring can be in stranded wires with ferrules or solid. For perfect function of the push-wire terminals the strip length should be 8.5–9.5 mm.



Information about the correct handling of LEDs can be found in the TALEX brochure "Installation instructions and Guidelines" → [www.tridonic.com](http://www.tridonic.com)