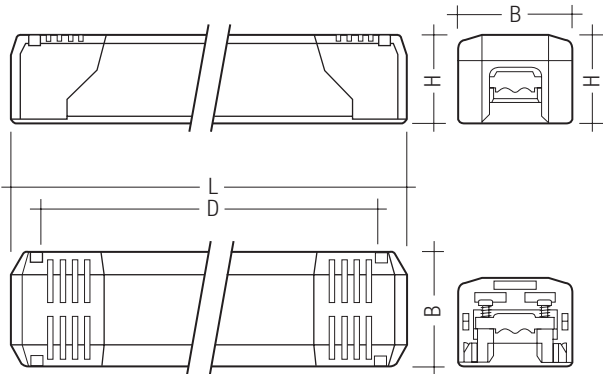⊕ ☐ ▽ ᵛ²⁰ ᵂ ᵂ 🗵 C€ ⧀ RoHS

TE 0150 one4all sc, 50 – 150 VA 230 – 240/12 V 0/50/60 Hz
Dimming one4all

Product description

• Independent device with integrated cable clamp and terminal cover

• Dimming range 1 to 100 %

• For emergency lighting systems as per EN 50172

• Short-circuit shutdown feature with automatic restart

• With soft start

• Noise-free precise control via one4all-interface DALI,
  DSI, switchDIM or corridorFUNCTION

• Fault reporting and programmable operating parameters
  in DALI and DSI mode

• Overtemperature and overload protection
  by reducing power and automatic restart

• Load range 50 – 150 VA

• Primary-side through-wiring

• 8-pole terminal on secondary side

• Practical individual packaging with assembly instructions

• Not suitable for operation with MR16 LED bulbs

Technical data

Protection class	II
Type of protection	IP20
Mains frequency	0 / 50 / 60 Hz
Efficiency	> 95 %
λ	> 0.95
Max. cable length secondary	2 m

→

Standards, page 2

Wiring diagrams and installation examples, page 2

Ordering data

Type	Article number	Lamp wattage	Dimensions LxWxH	Distance between mounting holes (D)	Dimming
TE 0150 one4all sc	**86457874**	50 – 150 VA	207 x 46 x 40 mm	170 – 174 mm	DSI, DALI, switchDIM – single momentary-action switch

Packaging: 10 pieces/carton, 600 pieces/pallet

Specific technical data

Type	Rated supply voltage AC	Rated supply voltage DC	Rated current (at 230 V 50 Hz)[①]	Secondary voltage[①]	DC lamp output	Operating frequency	Ambient temperature ta	Max. casing temperature	Soft-start	Weight	Output terminal
TE 0150 one4all sc	230 – 240 V	230 – 240 V	0.61 A	11.8 V	70 %	33 kHz	-25 ... +50 °C	90 °C	yes	0.29 kg	8-pin spring terminal

[①] Valid at 100 % dimming level.

Standards
EN 55015
EN 61000-3-2
EN 61047
EN 61347-2-2
EN 61547

Dimming
Dimming range 1 % to 100 %
Digital control with:
- DSI signal: 8 bit Manchester Code
  Maximum speed 1 % to 100 % in 1.4 s
- DALI signal: 16 bit Manchester Code
  Maximum speed 1 % to 100 % in < 0.7 s
  Programmable parameters:
  Minimum dimming level
  Maximum dimming level
  Programmable range
  1 % ≤ MIN ≤ MAX ≤ 100 %
  Default minimum = 1 %
  Default maximum = 100 %
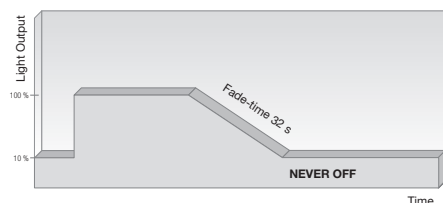Dimming curve is adapted to eye sensitivity.

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

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 should be installed in accordance to the requirements of low voltage installations. Different functions depending on control modules.

corridorFUNCTION
In the default delivery status the corridorFUNCTION is in the standard profile „never off".

To activate the corridorFUNCTION without using software a voltage of 230 V simply has to be applied for five minutes at the switchDIM connection. The unit with then switch automatically to the corridorFUNCTION.
Note: If the corridorFUNCTION is wrongly activated in a switchDIM system (for example a switch is used instead of pushbutton), there is the option of installing a pushbutton and deactivating the corridorFUNCTION mode by five short pushes of the button within three seconds.
To program the corridorFUNCTION by means of software a DALI-USB interface is needed in combination with a DALI PS. The software can be either the configTOOL or the corridorFUNCTION CONFIGURATOR. For further information (e.g. the amortisation calculator) go to www.corridorfunction.com.

switchDIM
Integrated switchDIM function allows a direct connection of a push to make switch for dimming and switching.
Brief push (50–600 ms) switches transformers ON and OFF. The transformers switch-ON at light level set at switch-OFF.
When the push to make switch is held, TE one4all are dimmed. After repush the TE one4all is dimmed in the opposite direction.
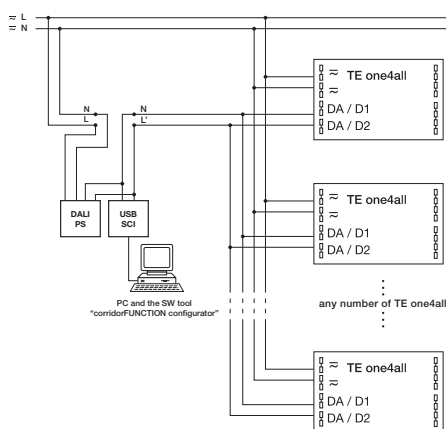In installations with TE one4all with different dimming levels or opposite dimming directions (e.g. after a system extension), all TE one4all can be synchronized to 50 % dimming level by a 10 s push. The dimming direction will be "down" for the next push.

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 Hz or 60 Hz is required at the control input.
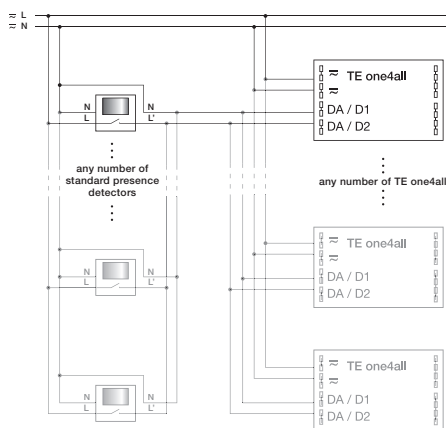Special attention must be paid to achieving clear zero crossings. Serious mains faults may impair the operation of switchDIM and corridorFUNCTION.

Programming
With appropriate software and a USB interface different functions can be activated and various parameters can be configured. All that is needed is a DALI USB / DALI PS and the software.

Wiring diagramm for programming

Wiring diagramm for corridorFUNCTION

configTOOL
Full version for programming all the functions and parameters.

corridorFUNCTION CONFIGURATOR
For activating and deactivating the corridorFUNCTION and for project-specific programming.**Light output level in DC operation**
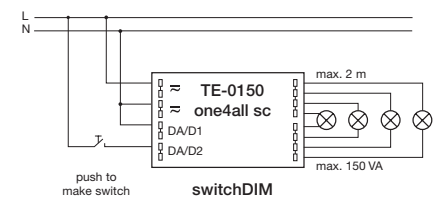Programmable from 1 % to 70 %
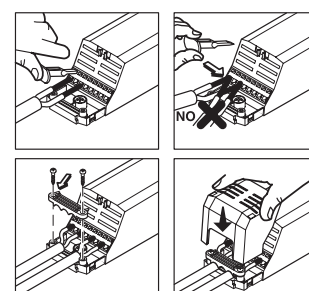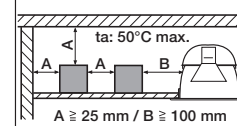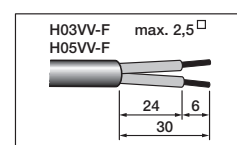Programming by extended DSI signal (16 bit) via eDSI.
Default value is 70 %
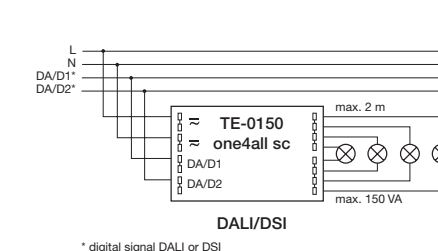In DC operation dimming is not possible.

Error feedback
- DSI signal: lamp failure (open circuit, short-circuit)
- DALI signal: lamp failure (open circuit, short-circuit) thermal switch off

Installation instructions

Loading of automatic circuit breakers (B, C, K)

Automatic circuit breaker type	10 A	13 A	16 A	20 A
Installation ∅	1.5 mm²	1.5 mm²	1.5 mm²	2.5 mm²
TE-0150 one4all sc	14	18	23	29