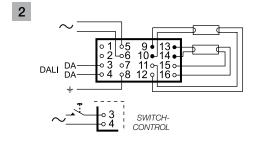
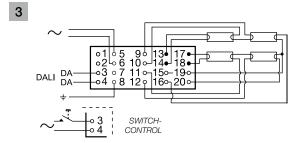
Connection diagrams

EL-iDim

NOTE: All wiring to the connectors marked with a red dot (hot wires) should be as short as possible.





- 1 EL1x ...iDim
- 2 EL2x ...iDim
- 3 EL4x ...iDim

Characteristics

	EL-iDim
Max.temperature at t _C point	75°C
Ambient temperature range	+10+50°C 1)
Storage temperature range	-40+80°C
Maximum relative humidity	no condensation
Number of starts per lamp	> 50 000
AC Range	198-264 VAC
DC range (starting voltage >198VDC)	176-280 VDC
Over voltage duration	320 VAC, 1h
Power factor (at maximum), typical	0.96
Earth leakage current	< 0.4 mA
Maximum working voltage (Uout)	400 V
Lifetime (90% survival)	50 000 h, at tc
Max length of ballast to lamp wiring	1.5 m / 2 m (hot / cold) 2)
Ignition time, typical	1.0 s
Type of starting	Preheat (warm start)

¹⁾ To ensure stable operation of TC-L lamps in ambient temperatures below 18°C it is not recommended to dim the light level below 3%

Standards

	EL-iDim
General and safety requirements EN61347-2-3	•
Additional safety requirements for AC/DC supplied	
ballasts acc. to EN61347-2-3 Annex J	•
Performance requirements EN60929	•
Lamp life acc. to EN60081 / EN60901 *)	•
Mains current harmonics, acc. to EN61000-3-2	•
Radio Frequency Interference, acc. to EN55015	•
Immunity standard, acc.to EN61547	•
Vibration test EN60068-2-64 test Fh	•
Bump test EN60068-2-29 test Eb	•
Thermal protection class EN61347, C5e	•

^{*} EN 60081 for T5 & T8 fluorescent lamps, EN 60901 for compact fluorescent lamps

²⁾ For TC-L lamps 1 m / 2 m (hot/cold lamp wires)

Switch-Control Information, EL-iDim ballasts

Switch-Control provides ON/OFF switching and UP/DOWN dimming functionality from one or more simple switches.

Switch-Control and DALI can not be connected to the iDim ballast at the same time.

Suitable switch:

- Automatic return type.
- Mains rated

Connection:

EL-iDim ballasts: To the DALI input
Wire length: 25m maximum. diagram A

25 - 200m, use a capacitor (1uF, 275V) diagram B

• Ballasts per switch: 50 (observe above)

• Ensure all ballasts and associated switches are connected to the same mains phase

Operation:

Switch off: Short push of the switch (<0.4 second)
Switch on: Short push of the switch (<0.4 second)

• EL-iDim ballasts will switch on to the last set level

• <u>Dimming:</u> Long push of the switch (>0.5 second)

• If lamps are off, the ballast dims up from minimum

• If lamps are on, the ballast dims in the opposite direction to previously

• The first dimming direction is dimming down

Correction of out of sequence operation:

- Switch the mains supply off and on, or...
- Long push (until all lamps are on), then a short push (all lamps off), then switch on

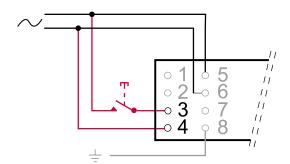
Compatibility:

Some ballasts manufacturers have functionality similar to Helvar Switch-Control. These methods are NOT COMPATIBLE with each other.

Connection

• To the DALI input

A) 0-25m



B) 25-200m

