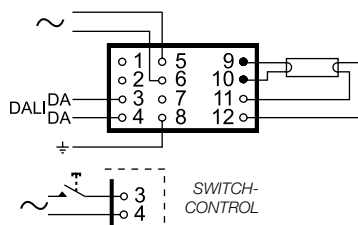


## Connection diagrams

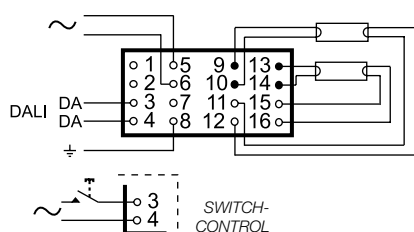
### EL-iDim

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

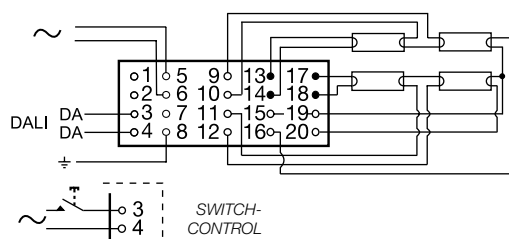
1



2



3



3

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

## Characteristics

	EL-iDim
Max.temperature at t <sub>c</sub> point	75°C
Ambient temperature range	+10...+50°C <sup>1)</sup>
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 (U <sub>out</sub> )	400 V
Lifetime (90% survival)	50 000 h, at t <sub>c</sub>
Max length of ballast to lamp wiring	1.5 m / 2 m (hot / cold) <sup>2)</sup>
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%

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

## 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 <sup>*)</sup>	●
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

## 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 (1 $\mu$ F, 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
- Dimming: 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

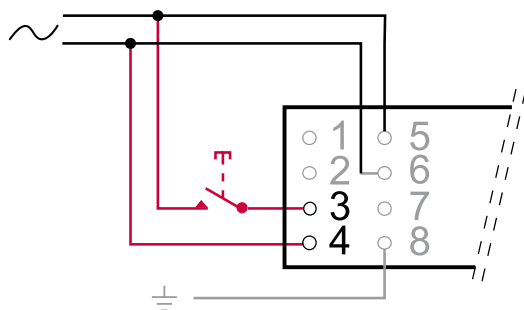
### Compatibility:

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

