

## Electronic ballasts in special environments

Electronic ballasts are exposed to special influences in special applications.

### **Humidity:**

Outdoor luminaires are designed according to EN 60598-1 and also with high protection class against condensation water and humidity. The ballast should be dealt with in the same way as all other electric components and measures must be taken to ensure that condensation water does not affect them.

The ballast should not be mounted in a cavity, where condensation water could be collected. We recommend fixing the ballast in an incline position so that any condensation water is able to drain off. The wires should be arranged so that they come from the bottom side to the ballast to avoid condensation water migrating along the wires into the ballast.

### **Temperature:**

Electronic ballasts of TridonicAtco are designed for a defined ambient temperature range ( $T_a$ ). They are specified in the corresponding data sheets. The design of the luminaire should ensure that the maximum specified ambient temperature is not permanently exceeded. A short overrun of 10 °C is specified in the EN 60598-1 and is tolerated without any quality losses.

### **EMC:**

All electronic ballasts of TridonicAtco are EMC-compatible (radio interference suppression, harmonics and surge, burst). Therefore they are applicable without any restrictions.

### **Atmosphere with chemical substances:**

Applications in atmospheres with chemical substances could be critical. They have to be clarified with TridonicAtco.

**Applications engineering**  
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