

Farm animal stables are an area of application in which luminaires and the light components built inside of them (electronic ballasts, LED Drivers, LED modules) face special challenges. The stress and damage differs depending on the type of stable (size, species, technical implementation, ventilation, cleaning, etc.), but is generally significantly higher than in standard applications.

The following challenges must be taken into account in farm animal stables:

- _ Aggressive atmosphere
- _ Pollution (in the air)
- _ Special temperature conditions
- _ Increased humidity
- _ Mechanical damage from animals
- _ Pollution
- _ Animal waste products

The following document summarizes what Tridonic has learned about the use of light components in farm animal stables and what position Tridonic takes in this regard.

1. Tridonic has not yet initiated any tests in this direction (analysis of light components in farm animal stables).
2. However, on the basis of returned device complaints, Tridonic can determine that light components that have been installed and used in farm animal stables show specific damage. This includes severe corrosion in the area of the terminals, conductor tracks, solder joints and other components.
3. Tridonic assumes that the use of light components in farm animal stables can lead to premature failures due to the conditions there and the damage described. However, due to the different local factors, a general forecast of the service life is not possible.
4. Due to the described challenges and circumstances, Tridonic can generally not approve the use of light components in farm animal stables or in other applications in which light components are exposed to such influences.
5. Necessary protective measures for the use of light components in farm animal stables must be taken within the framework of the luminaire construction or other suitable measures.