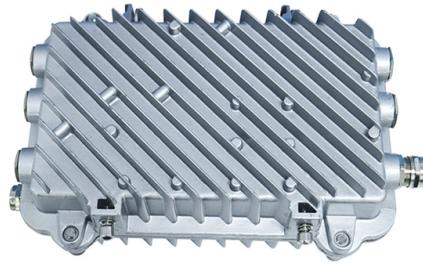


Principle and Function of Corridor Light Splitter



Article Overview

A corridor light splitter distributes control signals from sensors or control units to multiple luminaires, enabling energy-efficient, occupancy-based lighting in corridors.

Principle

The corridor light splitter operates on the principle of centralized control of multiple lights using a single input from motion or presence sensors. When a sensor detects occupancy, the splitter relays the signal to all connected luminaires, triggering them to switch on or adjust brightness. Conversely, when no movement is detected, the splitter can dim the lights to a preset level or switch them off entirely, maintaining safety while reducing energy consumption. This principle allows simultaneous control of multiple fixtures without requiring individual sensors for each luminaire.

Function

- **Signal Distribution:** The splitter receives input from motion detectors, push buttons, or control systems and distributes it to multiple lights, ensuring synchronized operation.
- **Energy Efficiency:** By dimming or switching off lights when corridors are unoccupied, the system reduces energy usage by up to 60% compared to always-on lighting.
- **Safety and Comfort:** Even when dimmed, a low-level background light remains on, preventing dark areas and ensuring safe passage in stairwells, corridors, and underground areas

Article Content

Commissioninginstructions corridorFUNCTION_V1_en

The sensors detect the available ambient light and use this as the basis for controlling the lighting system to achieve a definable

PLC Splitter: The Ultimate Guide to Efficient Light Distribution

A PLC Splitter divides one optical signal into multiple outputs, ensuring reliable, efficient fiber optic network

Energy Efficient Lighting Control System Design For Corridor illumination

For corridors, required illumination or light intensity usually ranges from 50 to 100 lux . The main aim of this paper includes the

Automated Corridor Lighting Control System

It provides an effective measure to save energy by preventing unnecessary wastage of electricity, caused due to manual switching or

Corridor function

The corridor function allows you to adjust the lighting intensity in the objects to changing conditions. In practice, it automatically

Optical Splitters Demystified: The Silent Heroes Powering Your FTTH ...

□□ How Does an Optical Splitter Work? The working principle is based on the fundamental physics of light. Light,

Optical Beam Splitter Guide: Cube, Plate & Polarizing Types

Compare cube, plate, polarizing, and dichroic beam splitters for laser, imaging, spectroscopy, and photonics applications.

Corridor Intelligent Lighting System Design

The system can effectively save energy and has intelligent lighting control such as automatic induction of people,

Lighting the Way Forward: The Significance of corridors with downlights

This layering of light adds depth and dimension to the corridor while maintaining the primary function of safe navigation. Additionally,

Corridor C

This can be applied to a condition called "Corridor hold", which balances the control lighting between a corridor and adjoining offices,

Lighting control for Corridors • Helvar

Lighting control for corridor areas Corridors connect spaces, frame transitions, and shape how people move through a building.

Optimising Corridor Lighting: Efficient LED Solutions

Corridor Function luminaires provide instant full brightness when movement is detected, guaranteeing clear visibility,

Flur 17m LiveLink mit externem Sensor_en

When movement is detected in the corridor and light levels are below the nominal value, lighting is switched back on. As depicted on

What are Beamsplitters?

Types of Beamsplitters Standard Beamsplitters are commonly used with unpolarized light sources, such as natural or polychromatic,

How does a beam splitter work? Common types and use cases

Understanding Beam Splitters Beam splitters are essential optical components used to divide a beam of light into two

Requirements Lighting for Circulation Areas | TRILUX

Lighting of traffic zones such as corridors, staircases and other traffic areas must be examined in connection with the lighting of

How Does a Beam Splitter Work? Types, Principles & Applications

Learn how beam splitters work, compare cube and plate designs, and explore applications in lasers, microscopy, and interferometry.

What Is an Optical Splitter?

What's an optical splitter? How does the fiber optic splitter work? How many fiber splitter types? How to choose the

Corridors and circulation areas

The functionalities and design principles for corridors and circulation areas are very diverse depending on their location in the design

Corridor Function Lighting: Classic Mode vs Swarm

Corridor function is a sequential, presence-driven lighting behaviour. As someone moves along a path, luminaires step up to full

Staircase and Corridor Lighting — Safety and Design

Stairs, corridors and other passageways have specific lighting requirements. This is not only for safety reasons, but also due to the

How many meters apart should corridor lights be? 5 factors ...

In architectural design and interior decoration, corridors serve as transitional spaces connecting various functional

The Ultimate Guide to Corridor Lighting

The main function of corridor lighting is to illuminate the passage and ensure that everyone makes it through safely.

(PDF) Automated Corridor Lighting Control System

Instead of having the staircase and corridors permanently light, the lighting is reduced to a pre-defined amount of time after one of

Contact Us

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