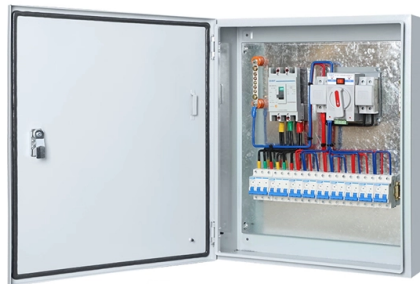


## The Fiber Optic Link Module OLM can be used for single-mode fiber optics



### AI Overview

Yes, the Fiber Optic Link Module (OLM) can be used with single-mode fiber optics, specifically with Siemens PROFIBUS OLM/G11-1300 and OLM/G12-1300 models. Supported OLM Models and Fiber Specifications Single-mode or mono-mode glass fiber optic cables with core/cladding diameters of 9/125  $\mu\text{m}$  or 10/125  $\mu\text{m}$  can be connected to the following PROFIBUS Optical Link Modules (OLM): OLM/G11-1300 and OLM/G12-1300. These modules use BFOC connectors for the optical interfaces, ensuring proper alignment and signal transmission for single-mode fibers. Network Topologies OLMs support various network topologies, including linear (bus), star, and redundant optical ring configurations. For linear bus structures, two-fiber cables are used to connect individual OLMs. Modules at the beginning and end of a line can have a single optical channel, while intermediate modules typically use two channels. Star couplers can integrate multiple OLMs via two-core fiber-optic cables, with the electrical star segment connecting the modules. Operational Considerations Conversion Function: OLMs convert electrical PROFIBUS (RS-485) signals to optical signals and vice versa, enabling integration into existing PROFIBUS networks. Environmental Conditions: Some models, like OLM/G12-EEC, are rated for extended temperature ranges (-25 °C to 60 °C), while standard models operate from 0 °C to 60 °C. Ex Zone Applications: For intrinsically safe applications in hazardous areas, OLMs with optical interfaces can be used, provided the fiber type and transceiver match the safety requirements. Summary In conclusion, single-mode fiber optics are fully compatible with Siemens PROFIBUS OLM/G11-1300 and OLM/G12-1300 modules, using BFOC connectors and adhering to the specified fiber diameters. These modules support flexible network topologies and can be deployed...

## Article Content

### PROFIBUS OLM/G12-1300

The OLM/G12-1300 with a wave length of 1300 nm for long distances can be used for very long distances of up to 15 km with single-mode FO cables (60/125 µm). The OLM/G12-1300 includes 1 x

Optical link module (standard version)

Always set the same mode for the two optical channels connected together via the fiber-optic cable. When operating with devices that do not provide fiber-optic link monitoring, this mode cannot be

Optical link module

Mode "bus with fiber-optic link monitoring and segmentation" CH2 is set to this mode when S1 and S2 are in position 0. & + & + & + & + & + CH3 is set to this mode when S3 and S4 are in position 0.

To which PROFIBUS Optical Link Module (OLM) can you connect a single ...

The properties of the single-mode or mono-mode glass fiber optic cable must meet the specifications of the optical interfaces of the OLM. The optical interfaces of the OLM are BFOC sockets.

### SIMATIC NET PROFIBUS, Optical Link Module

Use this mode when you connect a PROFIBUS OLM with a different fiber-optic component according to the PROFIBUS guideline (optical/electrical converter), which does not send a frame echo and does

### Optical Link Modules

Establish your optical networks with PROFIBUS OLM (Optical Link Modules) as required in linear, star or redundant ring topologies. Build innovative machines faster without costly prototyping with Efficient

### SIMATIC NET PROFIBUS OLM Guide | PDF | Network Topology

The document provides operating instructions for the SIMATIC NET PROFIBUS Optical Link Module (OLM) series, detailing safety guidelines, installation, maintenance, and product characteristics.

### Description and Operating Instructions OLM/P11 SIMATIC NET PROFIBUS OLM ...

Use this operating mode if you connect a PROFIBUS OLM with another optical fiber network component, which does not send a frame echo and does not expect or is not compatible with a frame

### SIMATIC NET PROFIBUS Optical Link Module OLM Operation Manual

If a module fails or a fiber-optic cable breaks or disturbances are detected on the optical transmission line, the fiber-optic link between the two OLMs is interrupted

## Optical Networks

Establish your optical networks with PROFIBUS OLM (Optical Link Modules) as required in linear, star or redundant ring topologies. Our Product Finder is your go-to resource for exploring a wide range of

## Cisco 10GBASE SFP+ Modules Data Sheet

The Cisco 10GBASE-ER Industrial Temperature Module supports a link length of up to 40 kilometers on standard Single-Mode Fiber (SMF, G.652). The SFP-10G-ER-I for Industrial Operating Temperature

To which PROFIBUS Optical Link Module (OLM) can you connect a

You can connect single-mode or mono-mode glass fiber optic cables (9/125µm or 10/125µm) to the following PROFIBUS Optical Link Modules (OLM): PROFIBUS OLM/G11-1300

## Siemens OLM Single vs Multi Mode Fiber: Compatibility Guide

Optical Link Modules (OLMs) used in Siemens Profibus networks support both single mode (SM) and multi mode (MM) fiber optic configurations. Understanding the differences in

## Optical Networks

Product description: The range of PROFIBUS OLM products includes many different versions and can be used for different applications with plastic or glass fiber-optic cables: System buses and fieldbuses

## Siemens SIMATIC NET Operating Instructions Manual

Description of the device 2.4 Area of application Area of application PROFIBUS OLMs are designed for use in optical PROFIBUS fieldbus networks. They allow the conversion of electrical PROFIBUS

## SIMATIC NET PROFIBUS OLM Operating Instructions

Operating instructions for SIMATIC NET PROFIBUS Optical Link Modules (OLM). Covers installation, maintenance, and troubleshooting.

## Optical link module

Use this mode when you connect a PROFIBUS OLM with a different fiber-optic component according to the PROFIBUS guideline (optical/electrical converter), which does not send a frame echo and does

Manual Olm Siemens PDF | PDF | Network Topology | Optical Fiber

OBT Optical Bus Terminal OLM Optical Link Module PCF Polymer Cladded Fiber (similar to HCS™) PNO PROFIBUS User Organization SELV Safety Extra Low Voltage TSDR MIN Time Station Delay

Secure & Reliable Fiber Optic Connectivity Solutions

Versiton specializes in designing and manufacturing copper-to-fiber connectivity solutions tailored for data, voice, and video applications across diverse industries. Our products are backed by a lifetime

Siemens SIMATIC NET OLM/P22 V4.0 Operating Instructions Manual

Page 64 Index SIMATIC NET PROFIBUS Optical Link Module OLM V4.0 Index-58 Operating Instructions, 01/2013, C79000-G8976-C270-03...

Siemens SIMATIC NET OLM/P22 V4.0 Operating Instructions Manual

PROFIBUS OLMs are designed for use in optical PROFIBUS fieldbus networks. They allow the conversion of electrical PROFIBUS interfaces (RS-485 level) into optical PROFIBUS interfaces and

What Is An Optical Link Module? Use Case & Function

An optical link module converts electronic signals to light, transmitting data wirelessly or through fiber optics. This ensures low-latency, reliable, and secure

SIMATIC NET PROFIBUS Optical Link Module OLM Operation Manual

OBT Optical Bus Terminal OLM Optical Link Module PCF Polymer Cladded Fiber (similar to HCS™) PNO PROFIBUS User Organization SELV Safety Extra Low Voltage TSDR MIN Time Station Delay

Optical link module

Always set the same mode for the two optical channels connected together via the fiber-optic cable. When operating with devices that do not provide fiber-optic link monitoring, this mode cannot be

Optical Link Modules

Siemens has developed new optical link modules (OLM) for Profibus networks. The OLM P22 and OLM G22 modules each have two optical Profibus interfaces using bayonet fiber optic

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://adikor.eu>

Email: [info@adikor.eu](mailto:info@adikor.eu)

Phone: +33 6 48 37 92 15

Address: 12 Rue de la Paix, 75002 Paris, France

This document is for informational purposes only. Specifications subject to change without notice.

