

Optical Data Link Module (ODLM)



**Unlock the Future with ODLM and
Transform Your SSI Network:
Your Path to Connectivity Evolution**

Features:

- Direct "drop-in" replacement for the standard Solid-State Interlocking (SSI) Data Link Module (DLM), capable of transmitting the SSI signal over optical fibres or copper cabling
- Provides extreme immunity to conducted electromagnetic interference when optical fibres are used in preference to copper cabling
- Easily established optical connections using the industry-standard duplex LC/UPC connector
- Our ancillary OBPM (Optical ByPass Module) provides reliability by allowing the optical signal to bypass an ODLM that has lost power (or one that has been removed during maintenance) without affecting the operation of ODLMs downstream
- Up to 63 ODLMs can be connected in a 'bus' configuration with communication possible over distances of up to 13 km between locations
- Toolless termination of datalinks using Z(LT)O to provide optimal EMC performance

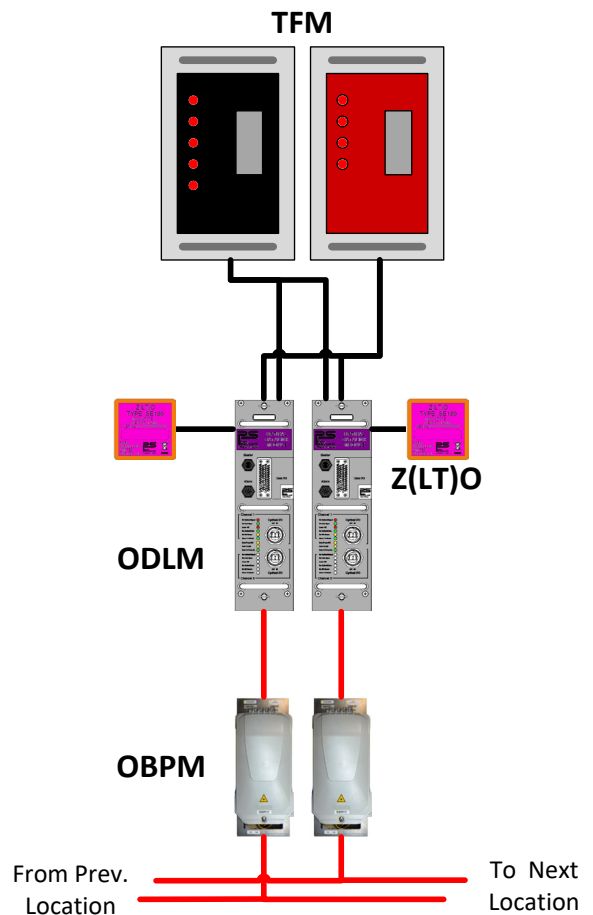
ODLM (Optical Data Link Module)

Revitalise your SSI Data Link network with ODLM. By embracing optical fibre at 1310 nm, ODLM offers rapid, dependable connectivity, eliminating the main risks associated with Conducted Electromagnetic Interference.

Say goodbye to copper theft concerns and welcome improved maintenance with LED-enhanced fault detection and alarm monitoring. As a direct replacement for existing Data Link Modules ODLM provides unparalleled reliability, security, and sustainability for your SSI Data Link infrastructure.

Supported with the OBPM this offers a complete solution for maintaining uninterrupted data communication. With flexible mounting options, it can be easily installed on lineside location cases or within Relocatable Equipment Buildings (REBs).

OBPM ensures seamless data transmission by allowing a sufficient amount of light to bypass the non-operational unit, ensuring network continuity.



Example ODLM Configuration

Technical Specification

Electrical	
Electromagnetic Compatibility (EMC)	BS EN 50121-4:2016+A1:2019
Electrical Safety	BS EN 61010-1:2010+A1:2009
MTBF	277499 hrs
Optical	
Optical Port Connector	LC/UPC
Transmit Optical Power	-15dBm to -8dBm into single mode fibre
Receiver Sensitivity	<-33dBm
Receiver Saturation	>-3dBm
Laser	Class I
Compliant with BS EN 50125-3:2003 (Cubicle, A1, T1), BR967 (Cat. D), BR1900D and BR1904A. Enclosure is rated to IEC 60529 IPx1.	

Park Signalling

3rd Floor, Houldsworth Mill, Houldsworth Street,

Reddish, Stockport, SK5 6DA

Tel: +44 (0) 161 219 0161

email: sales@park-signalling.co.uk

www.park-signalling.co.uk