WDM

Wavelength Division Multiplexer 100Mb Converter

The new BGB WDM (Wave Division Multiplexer) is designed to complement and enhance BGB's Optilinc FORJ to convert two fibre (duplex) systems to a single fibre multiwave length system (simplex).

Its unique rugged design has been developed to adapt itself to all environmental conditions. Designed to survive the arduous [physical and electrical] environments found in the wind energy industry (which insist on inbuilt transient surge protection), the WDM protects itself from lightning strikes via inbuilt electronic clamping systems.

When combined with BGBs Optilinc, the WDM lends itself to all applications whether it be light or heavy industry.

Power
Input nominal 24Vdc range 18V to 36V
Power consumption max 6W typically 3.5W
Internally fused at 3A for transient protection

Protocol
Protocol transparent

Media Connections
Compliant with IEEE 802.3z 100 Mb Ethernet

Dual Fibre
Connection SC duplex 1x9 format into 62.5/125microns or 50/125microns multi-mode fibre.
Wavelength 850nm nominal −20/+10nm
Output power -9.5dBm min to −4dBm max delivered into 62.5/125microns.
Extinction ratio >9dB
Input power range −18dBm min to 0dBm max
Signal detect threshold assert at −18dBm de-assert at −30dBm typical, Hysteresis >1dB. Indication of link integrity by Red/Green LED

Single Fibre
Connection SC 2x5 format into 62.5/125microns single mode fibre.
Wavelengths 1550nm / 1310nm.
Output optical power −9dBm min to -3dBm max delivered into 9/125microns.
Extinction ratio >9dB
Input sensitivity −21dBm min to -3dBm max
Signal detect threshold assert at −21dBm de-assert at −35dBm typical, Hysteresis >1dB. Indication of link integrity by Red/Green LED

Environmental
Operating temperature range −20°C through 80°C ambient.
Storage −40°C through +85°C ambient.
Humidity 40% through 90%RH non condensing.

* Optilinc FORJ not included

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