



## 4x4 INDUSTRIAL BYPASS OPTICAL SWITCH -ADVANCE

### Product Description

The 4x4 Industrial Bypass Optical Switch utilizes fiber-to-fiber technology over an angled surface to achieve ultra low losses and crosstalk. It is an external Optical Bypass Box for 10 /1Gbps fiber Gigabit Ethernet networks. The 4x4 Optical Bypass Box protects from network failures and is easy to implement network maintenance by ensuring network integrity. It is suitable for all bi-directional protection switching applications where premise-side connectivity is not required in the bypass state. The optical bypass box provides excellent performance on your network and possesses the advantages of compact and competitive cost. Lightwave Link 4x4 Industrial Bypass Optical Switch fully complies with RoHS Directive 2011/65/EU.



### Features

- Compact Format
- Low Return-Loss
- Available in Single Mode / Multi Mode
- Non-Latching Type
- LED indicators for Power and OSW status
- Power on Time Delay
- DIN Type Mounted

### Applications

- Node Bypass Protection
- Network Maintenance
- Industrial Ethernet Ring Switch
- Intrusion Prevention System
- SDH ADM Ring
- WAN Optimization
- High Performance Server

### Performance Specification

Parameter	9μm Core Single Mode			50μm or 62.5μm Core Multi Mode			Unit
	Min.	Typ.	Max.	Min.	Typ.	Max.	
Wavelength Range <sup>1</sup>	1260~1630			850/1300			nm
Straight Insertion Loss <sup>2</sup>		0.5	1.0		0.4	0.8	dB
Bypass Insertion Loss <sup>2</sup>		0.8	1.6		0.6	1.3	
Return Loss		-50					dB
PDL			0.1				dB
WDL			0.3				dB
Crosstalk		-80			-80		dB
Repeatability			±0.1			±0.1	dB
Switching Time <sup>3</sup>			5			5	ms
Absolute Optical Input Power			500			500	mW
Operating Current	150±10%						mA
Operating Voltage	12~48						VDC
Power Consumption	750±10%						mW
EMI Certification	FCC Class B						
Switching Life Expectancy	3x10 <sup>7</sup>			3x10 <sup>7</sup>			Cycles
Operation Temperature-Normal	-5		70	-5		70	°C
Operation Temperature-Special	-40		85	-40		85	°C
Storage Temperature	-40		85	-40		85	°C
Operation Humidity	5		95	5		95	%RH
Storage Humidity	5		95	5		95	%RH
Dimension (H*W*L)	26 x 95 x 140						mm
Weight <sup>4</sup>	535						g

1. Special wavelength would be upon request.

2. Optical parameters excluded connectors.

3. A minimum ≥20ms pulse is recommended for latching type of switch.

4. The product weight excluded optical connectors.