

0506 Electro-mechanical Switch

Q1100-S



1x8 Mechanical Fiber Optic Switch

This mechanical fiber optic switch connects optical channels by redirecting an incoming optical signal into a selected output fiber. This is achieved using a patent pending opto-mechanical configuration and activated via an electrical control signal. The mechanical operation offers ultra-high reliability and fast switching speed as well as bi-directional performance. The fiberoptic switches are true switching solutions for optical networking applications.

FEATURES

- Low Insertion Loss
- Parallel Interface
- Modularized Design
- Epoxy Free on Optical Path

USE IN

- Ring Network
- Remote Monitoring in Optical Network
- Testing of Fiber Optical Component

Insertion Loss	0.8 dB typ.; 1.0 dB max.
Operating Wavelength	850/1310/1550/1625 nm
Channel Crosstalk	55 dB min.
Return Loss	50 dB min.
Polarization Dependent Loss	0.05 dB max.
Wavelength Dependent Loss	0.25 dB max.
Temperature Dependent Loss	0.25 dB max.
Repeatability	±0.02 max.
Power Supply	5 V/12 V
Switch Time	8 ms max.
Transmission Power	500 mW max.
Fiber Type	SM Fiber
Dimension	135x64x32 mm (1 < N ≤ 12)
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C

Order notes to our customers: The default parameters are as follows. For special needs, please contact sales.

1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.

2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.

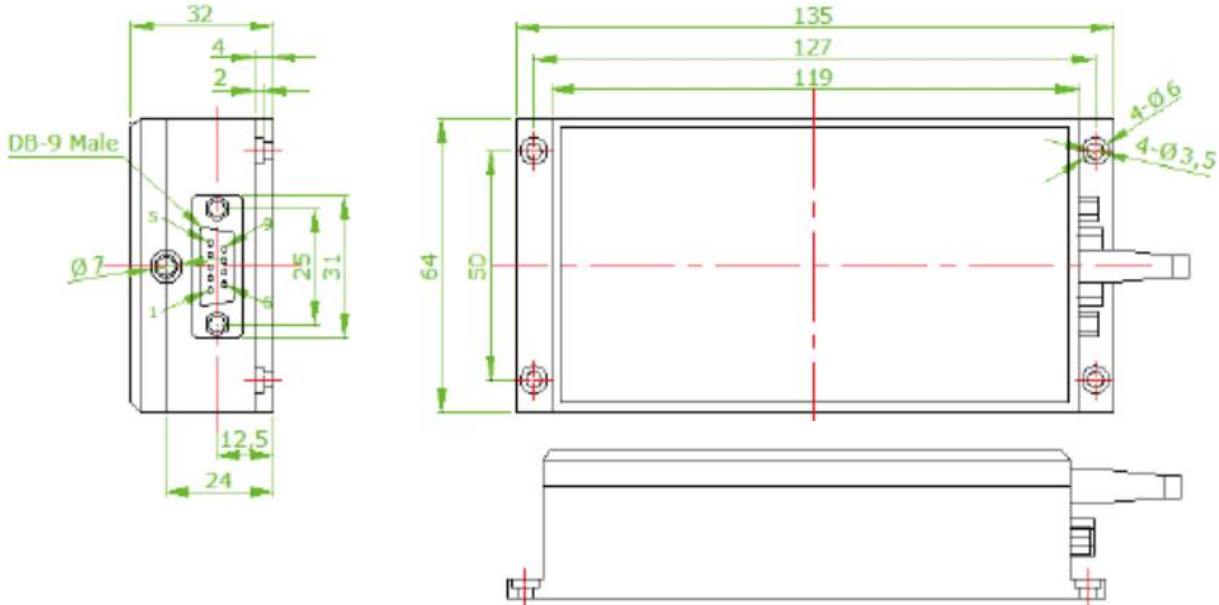
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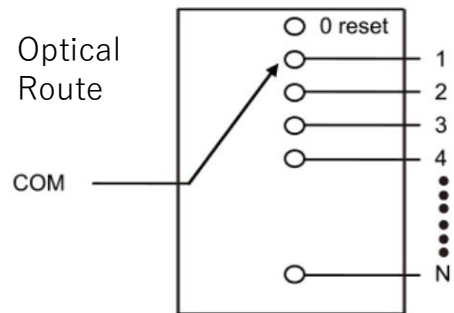
MECHANICAL DRAWING

Example Dimension: 135x64x32 mm(1xN, n≤12,DB-9 male)



Channel Selection Table

Max Channel	Input								Active Channel
	/RESET	D6	D5	D4	D3	D2	D1	D0	
N =16	0	x	x	x	x	x	x	x	0 reset
	1	x	x	x	0	0	0	0	com → 1
		x	x	x	0	0	1	0	com → 2
		x	x	x
		x	x	x	1	1	1	1	com → 16



DB-9 male connector (max.1x8)

Pin No.	signal Name	I/O	Description
1	D0	Input	TTL, Channel selection bit 0
2	D1	Input	TTL, Channel selection bit 1
3	D2	Input	TTL, Channel selection bit 2
4	D3	Input	TTL, Channel selection bit 3
5	/RESET	Input	TTL, Low level reset to channel 0. High level means channel selection bits are effective.
6	/READY	Onput	TTL, Ready (High=Not ready, Low=Ready).
7	ERROR	Onput	TTL, Error (High=Error, Low=Not error).
8	GND	Input	Ground
9	+5VDC	Input	5.0±5% VDC Power Supply (max 550 mA)

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