

1x2/ P1S12B

2x2/ P1S22B

Small, high performance single mode switch utilising Omron's proprietary Micro Lens Array and precision assembly technology.

- Small size and high repeatability achieved using our unique high-precision miniature actuator
 - Latching function for low power consumption*
 - Monitor contact for checking actuator state
 - Precise optical path transfer with moulded V/W mirror
 - Space saving single-sided fibre ribbon entry
- * Non-latching also available



Ordering Information

Model Number Legend

P1S 2B -

1 2 3 4 5

- | | | |
|---|---|---|
| <p>1. Number of channels
1: 1x2,
2: 2x2</p> <p>2. Latching function
Blank: Non latching,
L: Latching (standard)</p> | <p>3. Wavelength range
D: 1290 – 1360 & 1530 – 1625nm</p> <p>4. Cable length
Blank: Standard 1000mm
(or insert in mm)</p> | <p>5. Connector type
Blank: Ribbon fibre only (or insert one of the following: SC, FC, MU, LC, SCAPC, FCAPC, MUAPC, LCAPC)</p> |
|---|---|---|

Application Examples

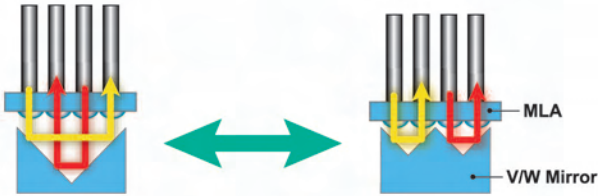
- Redundancy, Restoration/ Protection
- OADM (Optical Add/ Drop Multiplex)
- OXC (Optical Cross Connect)
- Monitoring & measurement

Specifications

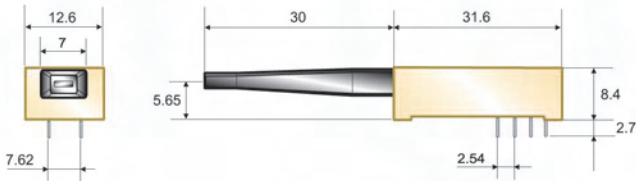
Parameter	P1S12B/P1S22B
Wavelength Range	1290-1360nm, 1530-1625nm
Insertion Loss	≤ 1.2dB (Typ. 0.8dB)
PDL	≤ 0.25dB
Return Loss	≥ 40dB (Typ. 45dB)
Repeatability	≤ 0.1dB
Cross Talk	≥ 55dB
Switching Time	≤ 4msec (Typ. 2.3msec)
Durability	≥ 10 million
Optical Power	500mW
Rated Voltage	5VDC
Power Consumption	100mW ¹ & 140mW ²
Operating Temp. Range	-5 to +70°C
Storage Temp. Range	-40 to +85°C
Humidity	5 to 85%HR
External Dimensions	W12.6 x L31.6 x H8.4mm

Note: 1. Latching 2. Non-latching. Typical specifications are at room temperature and include connectors except Insertion Loss

■ Structures



■ Dimensions (mm)



Complete "Terms and Conditions of Sale" for product purchase and use are on Omron's website at <http://www.components.omron.com> – under the "About Us" tab, in the Legal Matters section.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

OMRON

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Omron Electronic Components, LLC

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 - Delivery and shipping dates are estimates only; and
 - Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
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