

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

#### 1. Number of channels

- 1: 1x2,
- 2: 2x2

#### 2. Latching function

- Blank: Non latching,
- L: Latching (standard)

#### 3. Wavelength range

D: 1290 – 1360 & 1530 – 1625nm

#### 4. Cable length

Blank: Standard 1000mm  
(or insert in mm)

#### 5. Connector type

Blank: Ribbon fibre only (or insert one of the following: SC, FC, MU, LC, SCAPC, FCAPC, MUAPC, LCAPC)

## Application Examples

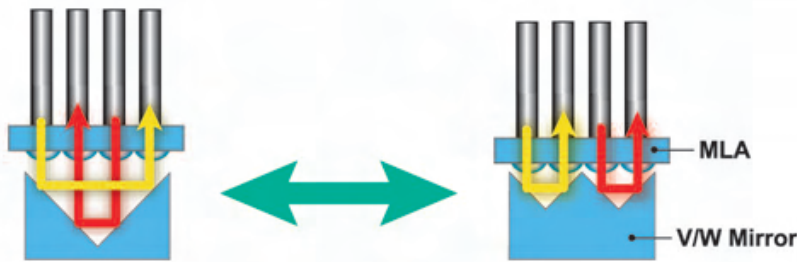
- Redundancy, Restoration/ Protection
- OADM (Optical Add/ Drop Multiplex)
- OXC (Optical Cross Connect)
- Monitoring & measurement

## Specifications

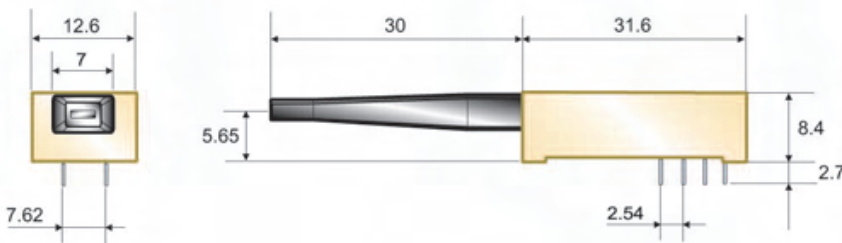
	P1S12B/P1S22B
Parameter	1 x 2 and 2 x 2
Wavelength Range	1290-1360nm, 1530-1625nm
Insertion Loss	≤ 1.2dB (Typ. 0.8dB)
PDL	≤ 0.25dB
Return Loss	≥ 40dB (Typ. 45dB)
Repeatability	≤ 0.1dB
Cross Talk	≥ 55dB
Switching Time	≤ 4msec (Typ. 2.3msec)
Durability	≥ 10 million
Optical Power	500mW
Rated Voltage	5VDC
Power Consumption	100mW <sup>1</sup> & 140mW <sup>2</sup>
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.

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# Omron Electronic Components, LLC

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### I. GENERAL

- Definitions:** The words used herein are defined as follows.
  - Terms:** These terms and conditions
  - Seller:** Omron Electronic Components LLC and its subsidiaries
  - Buyer:** The Buyer of Products, including any end user in section III through VI
  - Products:** Products and/or services of Seller
  - Including:** Including without limitation
- Offer/Acceptance:** These Terms are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating to the sale of Products by Seller. Seller hereby objects to any Terms proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
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### II. SALES

- Prices/Payment:** All prices stated are current, subject to change without notice by Seller. Buyer agrees to pay the price in effect at time of shipment. Payments for Products received are due net 30 days unless otherwise stated in the invoice. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice.
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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.
- Claims:** Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier must be presented in detail in writing to Seller within 30 days of receipt of shipment.

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- Amendment:** These Terms constitute the entire agreement between Buyer and Seller relating to the Products, and no provision may be changed or waived unless in writing signed by the parties.
- Severability:** If any provision hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision.

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