

## 1×11 Optical Switch (Stepper Motor )

### ▣ Features

- Up to 64 channels
- Low loss and high reliability
- Parallel interface (TTL,RS485,RS232)
- Modularized design
- Epoxy-free in optical path



### ▣ Applications

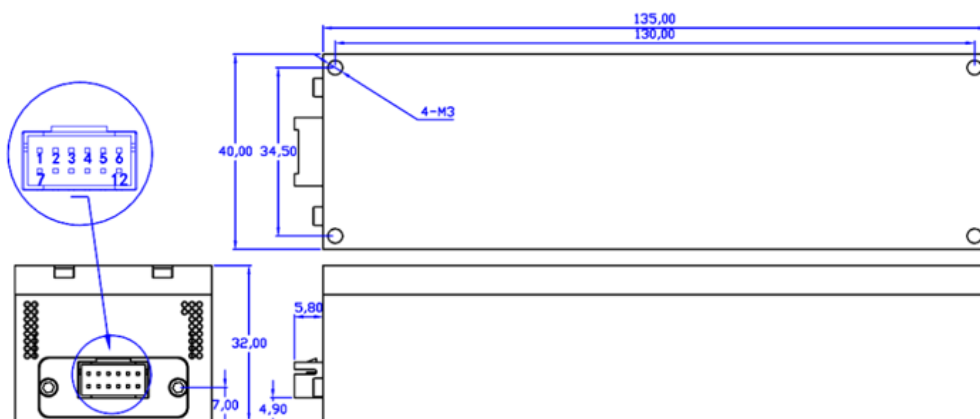
- Ring network
- Remote monitoring in optical network
- Testing of fiber optical component

### ▣ Specifications

| Optical Performance/光学性能           |     |    | Specification |
|------------------------------------|-----|----|---------------|
| Operation Wavelength/工作波长          |     | nm | 850.00        |
| Insertion Loss /插入损耗               | Typ | dB | <1.0          |
| Polarization Dependent Loss/偏振相关损耗 | max | dB | 0.10          |
| Wavelength Dependent Loss/波长相关损耗   | max | dB | 0.20          |
| Temperature Dependent Loss/温度相关损耗  | max | dB | 0.20          |
| Repeatability/重复性                  | max | dB | 0.10          |
| Return Loss/回波损耗                   | min | dB | 35            |
| Cross-talk/串扰                      | min | dB | 50            |
| Lifetime/使用寿命                      |     |    | 10 8          |
| Switching time/开关时间                |     | ms | 12            |

|   |     |        |                     |
|---|-----|--------|---------------------|
| Transmission power/传输光功率                              | max | mw     | 500                 |
| Switch Mode/控制方式                                      |     |        | RS485 (PHB2*6P)     |
| Power supply/驱动电压                                     |     | V      | 5V                  |
| Fiber Type/光纤类型                                       |     |        | 62.5/125            |
| Dimensions/尺寸   |     | mm     | 135X40X32           |
| Operating Temperature/工作温度                            |     | oC     | -20~70              |
| Environmental Stress Screening/环境压力测试                 |     |        | Specification       |
| Baking (Temperature / Duration)/烘烤(温度/持续时间)           |     | C / Hr | +85°C/48Hr          |
| Temperature Cycling (Temperature Range / Cycles)/温度循环 |     | C / Hr | -40°C to +85°C/48Hr |
| Mechanical and Configuration/形态和布局                    |     |        | Specification       |
| Package Dimension/外包装尺寸                               |     | mm     | 345x285x72          |

**Dimensions**



**▣ Pins**

| Pin             | I/O      | Signal Name | Description                         |
|-----------------|----------|-------------|-------------------------------------|
| 1,2,3,4,5,6,7,8 | None     |             |                                     |
| 9               | Power in | GND         | Ground                              |
| 10              | Power in | 5V          | 5.0±5% VDC Power Supply(max 1000mA) |
| 11              | S-       | RS485       | B                                   |
| 12              | S+       | RS485       | A                                   |

**▣ Ordering Information: OSW-1×N-A-B-C-D-E-F-G**

| N      | A  | B   | C  | D  | E  | F                                       | G                          |
|--------|--|---|--|--|--|---|----------------------------|
|        | Fiber Type   | Test Wavelength   | sheath   | Fiber Length                             | Connector  | Control port                            | Size                       |
| 1 ~ 64 | SM: SM, 9/125<br>M5: MM50/125<br>M6: MM62.5/125<br>Hi:Hi1060 | 850: 850nm<br>1310: 1310nm<br>1550: 1550nm<br>13/15:1310/1550nm<br>XX: othe | 25:250um<br>90: 900um<br>20: 2.0mm<br>FA:fiber array | 05: 50±5cm<br>10: 100±5cm<br>15: 150±5cm | OO:None<br>FP: FC/PC<br>FA: FC/APC<br>SP: SC/PC<br>SA: SC/APC<br>LP: LC/PC<br>LA: LC/APC<br>ST:ST/PC | 01: TTL+RS232<br>02:TTL+RS485<br>03:USB | A:135X40X32<br>B:135X64X32 |