

## 04/08/16 Channel Unidirectional Dry Contact Optical Multiplexer

### Models :

<b>TSM-DCK04</b>	04 Unidirectional dry contact closure fiber mux,FC single fiber 20km, external power supply with power adapter
<b>TSM-DCK08</b>	08 Unidirectional dry contact closure fiber mux,FC single fiber 20km, external power supply with power adapter
<b>TSM-DCK16</b>	16 Unidirectional dry contact closure fiber mux,FC single fiber 20km, external power supply with power adapter



### Overview

The mini type 1-16\*Dry contact output optical pure dry contact (alarm) optical transceiver. 1-16 provides a 16\*dry contact in optical fiber transmission, which solves the problem of electromagnetic interference, the interference and the lightning damage, improve the reliability of communication, data security and confidentiality, and can be widely used for in various **industrial control**, **process control** and **traffic control** and other occasions, especially for banks electrical and electromagnetic interference to the environment, the special requirements of the Department and the system.

### Functional Properties

- Based on proprietary integrated circuit;
- Enter the normally open normally closed switch automatically detects when the input what state switch output that is why the state to facilitate the opening of the project;
- switch turned on when not connected to other switches or fiber state is stable, does not appear chaotic action status;
- can support one-way and two-way eight-way switch 4-way switch;
- switch interface Lightning reach IEC61000-4-5 (8 / 20μS) differential mode: 6KV, impedance (2Ω); Common mode: 6KV, impedance (2Ω) standard;
- standard :AC 220V, DC+05V power no positive and negative points, using external power adapter
  - optional: ( DC -48V, DC + 24V) to be specified at order.

### Technical Parameters

#### ◆ Fiber

##### Multi-mode Fiber

50/125um, 62.5/125um,

Maximum transmission distance: 5Km @ 62.5 / 125um single mode fiber, attenuation (3dbm/km)Wave  
Length: 820nm  
Transmitting power: -12dBm (Min) ~-9dBm (Max)  
Receiver sensitivity: -28dBm (Min)  
Link budget: 16dBm

## Single-mode Fiber

8/125um, 9/125um  
Maximum transmission distance: 40Km  
Transmission distance: 40Km @ 9 / 125um single mode fiber, attenuation (0.35dbm/km)  
Wave Length: 1310nm  
Transmitting power: -9dBm (Min) ~-8dBm (Max)  
Receiver sensitivity: -27dBm (Min)  
Link budget: 18dBm

## ◆ Switch

Respond Time: <0.5ms  
Switch Signal: 30VDC/0.5A  
The maximum switching frequency 50HZ  
Physical interface: RJ45

## ◆ Power

Power supply: AC180V ~ 260V; DC - 48V; DC +24V  
Power consumption: ≤10W

## ◆ Dimension Product Size: 186X38X30mm(WXDXH)

Piece Weight : 1.35KG

## ◆ Working environment

Working temperature: -10°C ~ 50°C  
Working Humidity: 5%~95 % (no condensation)  
Storage temperature: -40°C ~ 80°C  
Storage Humidity: 5%~95 % (no condensation)

