

OIC-8I8O Series

Bidirectional 8 CH Contact Closure to Fiber Converters



Introduction

The OIC-8I8O is designed to enable customers to get the highest performance at the lowest budget, and to fully cooperate with all types of dry contact trigger devices on the building automation and environmental control market. Including the application of alarm triggering, PIR signal transmission, fire alarm systems, traffic signal control or gate control. This series support both dry contact and non-dry contact signals. This model provides transmission of 8 independent input signals over fiber optic cable and each unit features NC/NO/GND contact for system monitoring.



Features

- Transmits bidirectional 8ch contact closure signals over fiber.
- Distance up to 120km (*Standard stock: 10km)
- 30VDC, 1A /124VAC, 0.3A relay Normally open
- Built-in relay surge protection
- Point-to-point transmission
- Redundant power inputs with polarity reversal protection
- TX unit is available with dry contact sensors (external 5VDC) or digital inputs
- Each input is optically isolated, 1.5KV
- Support 9/125um single mode fiber ; 50/125, 62.6/125um multi-mode fiber
- Speed of transmission up to 155M
- Wide range operating temperature (-40℃ ~+75℃)
- Clear LED indicators
- Plug-and-play design
- Designed and made in Taiwan

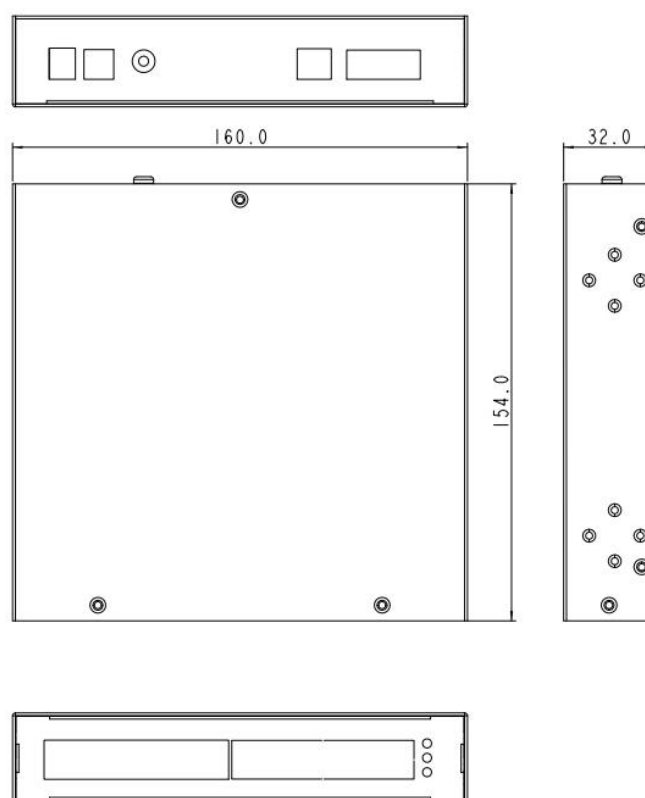
Specifications

Fiber	Port	1
	Type	Multi-mode: 50/125, 62.6/125um Single mode: 9/125um
	Connector	SC/ST/FC
	Transmission rate	155M
	Distance	0~120km*according to the fiber module type。 Standard stock: 10km
	Wavelength	Multi-mode: 850nm/1310nm Single mode: 1310nm/1550nm.
Contact Closure	Channel Number	8 x bidirectional
	Output SPST Relay	30VDC, 1A /125VAC, 0.3A relay output, normally open
	DC Input Isolation	1.5kv
	Response Time	< 3m sec

	Connector	Screw down terminal block
	LED indicators	Power(PWR) 、Fiber Operation(OP) 、Contact closure(I/O)
	MTBF	> 50,000 hours
	Power input	DC 12V 1A, Redundant power input, Removable terminal block
	Power consumption	≤ 5W
	Weights	750g
	Dimensions	160x32x155mm
	Working temperature	-20°C ~ +75°C
	Storage temperature	-40°C ~ +85°C
	Humidity	0~95% (Non-condensing)
	Certifications	CE, FCC

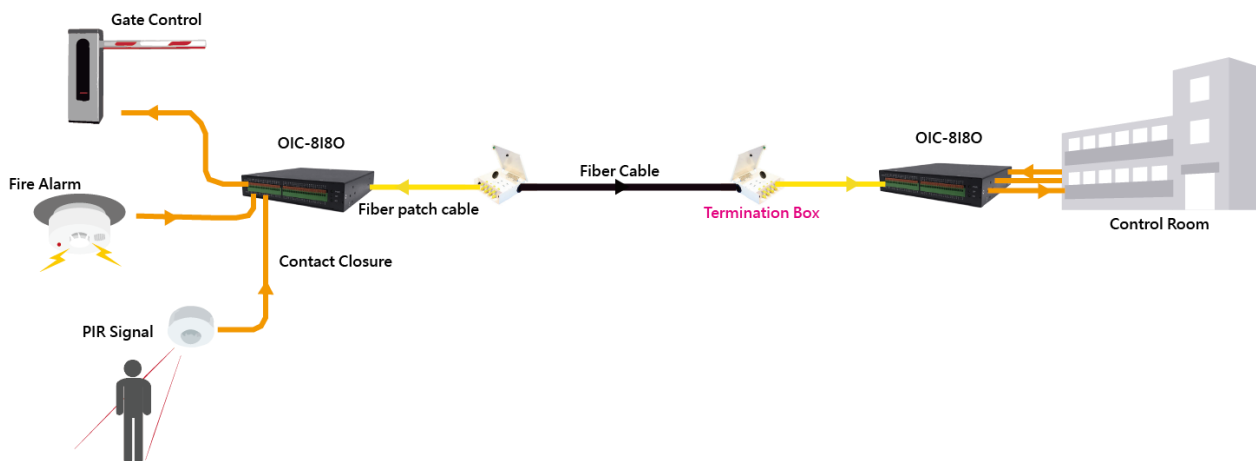
Dimensions

Unit: mm



Application

Alarm Event Triggering/Building Automation/ Environmental Control System/
Fire & Alarm System/Gate Control/ Traffic Signal Control Equipment



Ordering Information

Model	Diameter	Connector	Operation Mode	Wavelength	Distance	Box	Card
OIC-8I80-SM-SC-2F-10	SM (9/125μm)	SC	Duplex	1310/1550 nm	10KM	●	
OIC-8I80-MM-SC-2F-10	MM(62.5/125um)	SC	Duplex	850/1310 nm	550M	●	

Accessories (sold separately)

Model Name	Description
SC-SC-S-3M-D	3M SC to SC Fiber Patch Cord, 9/125 μm, Single Mode, Duplex Fiber
SC-ST-S-3M-D	3M SC to ST Fiber Patch Cord, 9/125 μm, Single Mode, Duplex Fiber
SC-LC-S-3M-D	3M SC to LC Fiber Patch Cord, 9/125 μm, Single Mode, Duplex Fiber
SC-FC-S-3M-D	3M SC to FC Fiber Patch Cord, 9/125 μm, Single Mode, Duplex Fiber
SC-SC-M-3M-D	3M SC to SC Fiber Patch Cord, 62.5/125 μm, Multi-Mode, Duplex Fiber
SC-ST-M-3M-D	3M SC to ST Fiber Patch Cord, 62.5/125 μm, Multi-Mode, Duplex Fiber
SC-LC-M-3M-D	3M SC to LC Fiber Patch Cord, 62.5/125 μm, Multi-Mode, Duplex Fiber
SC-FC-M-3M-D	3M SC to FC Fiber Patch Cord, 62.5/125 μm, Multi-Mode, Duplex Fiber

More information please check on our website at www.hoatech.com.tw