KINGSINE KF900 Optical Digital Relay Test System

* With four fiber Ethernet interfaces and 3-way FT3 dedicated output interface

* In accordance with IEC61850-9-1 or IEC61850-9-2 frame format and send samples FT3 frame format or publish / subscribe GOOSE messages,

*The output sample value or GOOSE can be freely defined,

* Has 12 channels of analog output of weak signal, to achieve a variety of protection relay, monitoring and control devices, intelligent operation box testing.

Function Features

Provide fully test solutions to various IEC61850 relay protective devices & automation devices for all power users.

Provide 4 pairs of 100Base-FX optical interface, 3(FT3)ST optical out, support EC61850-9-1, EC61850-9-2, EC6004-7/8(FT3)and Goose optical digital message output test

Conventional analog binary input procession is compatible, providing 8 pairs analog binary input & 4 pairs binary output

Provide 1 RG-B/PPS interface, can access RG-B or PPS time signal which synchronize with GPS synchronous clock.

Technical Parameter

Binary Input	
No.	8 pairs
Input Characteristic	0V~250V(DC) or no contant (identified automatically)
sample Frequency	10kHz
Time Resolution	100μs
Max measuring time	$1.50×10^5$ s
Timing Error	±1ms (0.001s～1s) ±0.1%(1s～$1.50×10^5$ s)
Set Range of Debounce Time(set by software)	0ms～25ms
Electric Isolation	8 pairs input electric isolation
Threshold Impedance Parameter(no contacts)	5 kΩ…13kΩ
Sychronization Interface (GPS)	
	KSGGPS satellite sychronization device)is optional; B code (RS485) sychronization interface
Binary Output	
No.	4 pairs
Type	no contants and no pole, controlled by software
AC capacity	Vmax:250V (DC)/Imax:3A
DC capacity	Vmax:250V (DC)/Imax:1A
Power Supply	
Rated Voltage	220V(AC)
Allowed Voltage	100V~240V(AC)
Rated Frequency	50Hz
Allowed Frequency	40~60Hz
Current	1A (max.)
FT3 Interface	
Using Standard	IEC60044-7/8
Terminal NO.	3 pairs
Interface Type	ST
Wave Length	850nm
Optical Fiber Type	62.5/125μm, multi-mode

Transmission Distance	1km
Ethernet Communication Interface	
Type	10/100 Base-TX(10/100 Mbit, twisted pair/ auto crossed)
Port No.	1 pairs
Interface Type	RJ45
Cable Type	5 pairs twisted pair
State Indication	LED green(light):effective connection LED yellow(flicker): data communication
Fiber Optic Communication Interface	
Type	100Base-FX(100Mbit, fiber optic, full-duplex)
Port No.	4 pairs
Interface Type	SC
Cable Type	62.5/125μm(multimode fiber orange)
Wave Length	1300nm
Transmission Distance	> 1Km
State Indication	SPD green(light):effective connection Link/AcT yellow(flicker): data communication
Operational Environment	
Operational Temperature	-10℃～+50℃
Storage& Transportation Temperature	-20℃～+70℃
Humidity	5～90% relative humidity, no