

产品规格书

Product Datasheet

F5-MS0400P

主要信息 Main



产品系列 Range Of Product	FC5
产品类型 Product Or Component Type	铂电阻传感器模块 Platinum resistor sensor module
传感器采集通道 Analog output Channels	4
传感器类型 Analog output Type	PT100、PT1000、NI100、NI1000、Cu50、Cu100
分辨率 Resolution	0.1°C

补充信息 Complementary

模块特性

特性 Characteristics	MS0400P
描述 Description	铂电阻传感器模块 Platinum resistor sensor module
输入通道 Input Channels	4
额定功耗 Rate Power consumption	≤30mA (Full load)
传感器类型 Sensor type	PT100、PT1000、Ni100、Ni1000、Cu50、Cu100
分辨率 Resolution	0.1°C
测量误差 Max accuracy at ambient 25 °C	±0.5% or ±1°C, Use the bigger
环境温度的影响 The influence of measuring temperature (Temperature range: -20 °C to 60 °C)	<ul style="list-style-type: none">◆ Pt100、Pt1000、Ni100、Ni1000: ±1% of PV or±1°C, use the bigger◆ Cu50、Cu100: ±1% of PV or±1.5°C, use the bigger
连接器类型 Connector Type	螺钉端子 Screw terminal
信号类型 Signal type	电气隔离 Electric isolation
输入阻抗 Input impedance	≥1 MΩ
采样周期 Sample period	≤100ms/Channel
最小输入 Minimum input	0.1°C
超范围检测 Out of range detection	是 Available
断线报警 Wire Broken warning	是 Available
输入滤波 Input Filter	0~10S (unit: 0.01s)
输入范围 Input range	<ul style="list-style-type: none">◆ Pt100: -200~850°C◆ Pt1000: -200~600°C◆ Ni100: -60~180°C◆ Ni1000: -60~180°C◆ Cu50: -50~150°C

	◆ Cu100: -50~150°C
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环境特性 Environmental Characteristics

类别 Category	特性 Characteristic
运行环境温度 Operating ambient temperature	-10°C~60°C
存储温度 Storage temperature	-20°C~70°C
相对湿度 Relative humidity	55%~95%, 无凝露 without condensation
污染等级 Class of pollution	2 (IEC60664)
防护等级 Class of protection	IP20
涂层 Coating	涂层防护, 干膜厚度≥20μm; 加强版干膜厚度≥40μm Coated protection, dry film thickness ≥ 20μm; reinforced dry film thickness ≥ 40μm
海拔高度 Altitude	运行: 0m~3,000m Operation: 0m~3,000m 运输: ≤6,000m Transportation: ≤6,000m
抗震性能 Seismic performance	5Hz~13.2Hz, 振幅 7mm; 13Hz~100Hz, 加速度 2G, X、Y、Z 三轴方向各 20 次 5~13.2Hz Amplitude 7mm, 13Hz~100Hz Acceleration 2G, 20 times each in X, Y and Z axes
抗冲击性能 Impact performance	半正弦波, 加速度 15G, 持续 11ms, X、Y、Z 三轴方向各 6 次 Semi-positive sine wave, acceleration 15G, duration 11ms, 6 times in each of the X, Y and Z directions

电磁敏感性 Electromagnetic Susceptibility

Standard	Method	Item
EN IEC 61000-6-4:2019	CISPR 16-2-1	Conducted Emissions at AC Mains Power Port (150kHz-30MHz)
	CISPR 32	Conducted Emissions at Wired Network Port(150kHz-

Standard	Method	Item
		30MHz)
	CISPR 16-2-3	Radiated Emissions(30MHZ-1GHz)
	CISPR 16-2-3	Radiated Emissions(Above 1GHz)
EN IEC 61000-6-22019	EN 61000-4-6:2014	Conducted Immunity at AC Mains Power Port(150kHz-80MHz
	EN 61000-4-6:2014	Conducted Immunity at Signal Port150kHz-80MHz
	EN 61000-4-4:2012	Electrical Fast Transients Burst at AC Mains Power Port
	EN 61000-4-4:2012	Electrical Fast Transients Burst at Signal Port
	EN 61000-4-2:2009	Electro static Discharge
	EN 61000-4-8:2010	Power Frequency Magnetic Field
	EN IEC 61000-4-3:2020	Radiated Immunity(80MHZ-6GHz)
	EN 61000-4-5:2014+A1:2017	Surge at AC Mains Power Port
	EN 61000-4-5:2014+A1:2017	Surge at Signal Port
	EN IEC 61000-4-11:2020	Voltage Dips and Interruptions

F5 系列交流电源型 PLC 系统符合下述的安全标准：

The F5 Series AC power supply type PLCs system meets the following safety standards:

- IEC 61010-1:2010 + A1:2019
- AMD1: 2016

端子定义 Definition of Terminals

F5-MS0400P	Upper side	A0	B0	B'0	A1	B1	B'1
	Lower side	A2	B2	B'2	A3	B3	B'3

标识的含义请参见下表 For the meaning of marks , please refer to the table below.

Marks	Meaning
A*	A terminal
B*	B terminal

B*	B terminal
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外形尺寸 Dimension:

40*94*83 (W*H*D)

单位 Unit: mm

