

QT-SICA – ANALOG SIGNAL ISOLATOR



- » Slim Design
- » Analog Converter
- » Highly Reliable Performance
- » Easy for Installation
- » DIN Rail Mount



QT-SICA series Current/Voltage input distribution isolator, DC24V or AC220V power supply, provide isolated distribution power supply for on-site transmitter, and realize the conversion of voltage, current, mV and other signals.

Input interface current source, two-wire system and three-wire system transmitter are universal, and efficient magneto-electric isolation technology is adopted internally. Input, output and power supply are isolated from each other, with high accuracy, high linearity, low temperature drift and other characteristics.

TECHNICAL PARAMETER

INPUT

Input Signal	4~20 mA, 0~20 mA, 0~75 mV, 0~5 V, 0~10 V
Power Distribution	Open-circuit voltage \leq 25VDC; (20mA) Voltage: \geq 15V
Normal Working Current	\leq 25mA
Input Impedance	Current input \leq 50 Ω ; Input voltage \geq 300K Ω

OUTPUT

Output signal	4~20 mA, 0~20 mA, 0~5V, 0~10 V
Output load resistance	RL \leq 500 Ω (Output is current signal) RL \geq 10K Ω (Output is voltage signal)
Supply voltage	DC24 V, \pm 10% or AC85~ 265 V
Current Consumption	\leq 50 mA (1 IN/1 OUT, 24 V, Power distribution input, when 20 mA Output) \leq 70 mA (1 IN/2 OUT, 24 V, Power distribution input, when 20 mA Output) \leq 100 mA (2 IN/2 OUT, 24 V, Power distribution input, when 20 mA Output) \leq 120 mA (1 IN/3 OUT, 24 V, Power distribution input, when 20 mA Output) \leq 140 mA (1 IN/4 OUT, 24 V, Power distribution input, when 20 mA Output) \leq 160 mA (2 IN/4 OUT, 24 V, Power distribution input, when 20 mA Output)
Basic Accuracy	\pm 0.1% F.S



TECHNICAL PARAMETER

OUTPUT

Temperature Drift	0.005% F.S/°C (-20°C~+55°C) Response Time : ≤ 10 ms (0-90%) (TYP)
Dielectric Strength	1500 V AC/1 min (among input / output / power supply)
Insulation Resistance	≥ 100MΩ (among input / output / power supply)
Electromagnetic	In accord with GB / T18268 (IEC61326 - 1)
Compatibility	
Suit for Field Equipment	Two wire, three wire transmitter, voltage source, current source signal

POWER

Power Input	24V DC
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RELIABILITY PARAMETERS

Working temperature	-20 °C ~55°C
Storage temperature	-30 °C ~70 °C
Operating humidity	10%~90% @30°C, no condensation

MECHANICAL

Overall size	115 x 100 x 22.5mm mm
Operating Weight	Net : 80 gm Gross : 100 gm
Product certification	CE / RoHS

SELECTION TABLE

QT-SICA	X	X	X	
Channel	1			1 IN / 1 OUT
	2			1 IN / 2 OUT
	3			1 IN / 3 OUT
	4			1 IN / 4 OUT
	5			2 IN / 2 OUT
	6			2 IN / 4 OUT
INPUT		1		4-20 Ma
		2		0-20 mA
		3		0-5 V
		4		0-10 V
OUTPUT			1	4-20 Ma
			2	0-20 mA
			3	0-5 V
			4	0-10 V

DIMENSIONS

