masibus®
A Sonepar Company

9000L

Signal Isolator

Single/Dual Output

Advanced. Isolated. Reliable

Masibus 9000L Signal Isolator is compact yet rugged 4 wire Isolator used for reliable isolation and attenuation of Industry Standard Field Signals. 9000L is available in Single or Dual output models.

9000L has higher noise rejection ratio that ensures accurate and noise free signal conditioning. Its Compact DIN rail mount design occupies less space and reduces cost of overall installation.

With Dual output option this model also acts as Signal distributor. A typical application could be where the signal has to be distributed for indication on local panel, field control room, main control room or DCS system. The Isolator provides a good protection for sensitive system parts against voltage spikes etc.

An exceptional feature of advanced extended universal power supply for the range of 20V to 265V DC or AC makes 9000L suitable for most of the power supply range available in field thus providing easy installation.

Masibus' 9000L Model offers a good accuracy and stability for reliable operation in hostile environments and full isolation safely separates input channel, each output channel and the power supply.

Features

- Compact DIN rail mount Design of 35mm for Single and Dual output
- Rugged & accurate 4 wire isolator
- Extended Universal Power Supply range: 20V to 265V DC or AC
- 1.5 KV AC three port isolation
- Up to 2 outputs with short circuit Protection
- High CMRR and NMRR
- High output load driving capability
- Wide span adjustment limits
- Front calibration facility via multiturn trimpot

Applications

- Field Interface device
- Isolation of field signals
- Distribution of signals
- Translation of signals
- Factory automation
- SCADA
- DCS
- Impedance matching of transmitters and receiver instruments
- Variable Frequency Drives

TECHNICAL SPECIFICATIONS

Input

	9000L	9000L-M
Input type	Current	Voltage/ Current
Input Range	4 to 20mA	4 to 20mA 0 to 10V DC
Input Impedance	≤100 Ω	Current i/p ≤100 Ω Voltage i/p ≥1 MΩ
Temperature Coefficient	≤100 ppm/ °C	
CMRR	> 100 dB	
NMRR	> 70 dB	

Output

	9000L	9000L-M
Output Type	Current	Voltage/ Current
Output Range	4 to 20mA	4 to 20mA 0 to 10V DC
Output Load Resistance	≤750 Ω	Current o/p ≤750 Ω Voltage o/p ≥2 KΩ
Accuracy	± 0.25% of FS	
Response time	≤ 50ms	
Output Loop status LED	Green	Not available

Power Supply

Voltage	20 to 265V DC/AC, 45Hz-65Hz
Power Consumption	Less than 5VA
Power ON status LED	Red

Isolation (Withstanding voltage)

Between primary terminals* and secondary terminals**: **At least 1.5 KV AC for 1 minute**

Between primary terminals* and grounding terminal: **At least 1.5 KV AC for 1 minute**

Between grounding terminal and secondary terminals**: **At least 1.5 KV AC for 1 minute**

Between secondary terminals**: **At least 1.5 KV AC for 1 minute**

* Primary terminals indicate power terminals.

** Secondary terminals indicate I/O terminals.

Insulation resistance: > 20MΩ@500V DC between All terminals and grounding terminal.

Physical

Mounting Type	DIN Rail (35 mm)
Terminal Block	UL,CSA standard
Terminal Cable Size	2.5mm^2
Enclosure Material	ABS
IP Rating	IP20
Dimension (in mm)	75(H) x 35.1(W) x 107.25(D)
Weight	SOP model: 120 gms Approx DOP model: 150 gms Approx

Environmental

Operating Temperature	0 to 55 °C
Relative Humidity	30 to 95% RH (Non-Condensing)
Protection	Conformal Coating on PCB

Ordering Code

Model	No of O/P	
9000L	X	
	1	One
	2	Two

Model		Input Type		O/P type-1		O/P type-2	
9000L	M	X		X		X	
		C	4-20mA	1	4-20mA	0	None
		G	0-10V DC	5	0-10V DC	1	4-20mA
						5	0-10V DC

Head Office: Masibus Automation And Instrumentation Pvt. Ltd.
B-30, GIDC Electronics Estate, Sector-25, Gandhinagar-382044, Gujarat, India.
Tel: +91 79 23287275-77, Fax: +91 79 23287281.
E-mail: sales@masibus.com, Web: www.masibus.com

All specifications are subject to change without notice due to continuous improvements.
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