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Datasheet



Housing for Lock-In-Amplifier Series LIA-BV(D)-150



Datasheet MK-LIA-3-A SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MAIL:szss20@163.com

Housing for Lock-In-Amplifier Series LIA-BV(D)-150

Connectors (Standard Configuration)	Signal Input	BNC (differential, shield connected to -Vin)	
	X-Output	BNC	
	Y-Output	BNC (only for Dual Phase Models LIA-BVD)	
	R-Output	BNC (only for Dual Phase Models LIA-BVD)	
	Reference Input	BNC	
	Power Supply	LEMO Series 1S, 3-pin fixed Socket Pin 1: $+$ 15V Pin 2: $-$ 15V Pin 3: GND PIN 2: $+$ 15V + 15V + 15V	
	Control Port	BNDSub-D 25-pin, female, Qual. Class 2Pin 1:+12V (Stabilized Power Supply Output)Pin 2:-12V (Stabilized Power Supply Output)Pin 3:AGND (Analog Ground)Pin 4:+5V (Stabilized Power Supply Output)Pin 5:X-OutputPin 6:Overload Status OutputPin 7:Unlocked Status OutputPin 8:Disable Local Switch Control InputPin 9:DGND (Ground f. Digital Control Pin 8 - 25)Pin 10:Dynamic Mode (DYNO)Pin 11:Sensitivity (SEN0)Pin 12:Sensitivity (SEN1)Pin 13:Sensitivity (SEN2)Pin 14:Time Constant Slope (TCSL)Pin 15:Time Constant (TC1)Pin 17:Time Constant (TC2)Pin 18:Phase Shift (PH0)Pin 20:Phase Shift (PH1)Pin 20:Phase Shift (PH2)Pin 21:Phase Shift (PH3)Pin 22:Phase Shift (PH4)Pin 23:Phase Shift (PH5)Pin 24:Phase Shift (PH7)	
Connector Wiring Options	General	The BNC-connector configuration can be easily changed by setting electrical jumpers at the internal I/O-adapter card. Disconnect the power supply and open the case by loosening the two upper screws at the case front and rear side. Please pay attention to the ground connection at the backplane. Now open the case by lifting the top. The jumper options and functions are described in the following table.	

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	Housing for Lock-In-Amplifier Series LIA-BV(D)-150			
Connector Wiring Options, Jumpers on internal Adapter Board	Input Connectors (JP1)	Input wiring	Jumper installed	
		IN A = Voltage Input (Single Ended, AC)	"+V-IN \rightarrow IN A" "GND \rightarrow IN A/SHLD" "-V-IN \rightarrow IN A/SHLD"	
		IN A = Voltage Input (Differential, AC)	"+V-IN \rightarrow IN A" "-V-IN \rightarrow IN A/SHLD"	
		IN A / IN B = Voltage Input (2 BNC Differential, AC) (OUT A cannot be used)	"+V-IN \rightarrow IN A" "GND \rightarrow IN A/SHLD" "-V-IN \rightarrow IN B"	
		IN A = Current Input (Single Ended)	"C-IN \rightarrow IN A" "GND \rightarrow IN A/SHLD" "-V-IN \rightarrow C-OUT"	
	Output Connectors (JP2)	Output wiring	Jumper installed	
		OUT A = X-Output	"X \rightarrow OUT A" (JP1) "USE OUT A/NO IN B"	
		OUT B = X-Output	$"X \rightarrow \text{OUT B"}$	
		OUT A = Y-Output	"Y \rightarrow OUT A" (JP1) "USE OUT A/NO IN B"	
		OUT B = Y-Output	$"Y \rightarrow \text{OUT B"}$	
		OUT C = Y-Output	$"{\rm Y} \rightarrow {\rm OUT} \; {\rm C}"$	
		OUT A = R-Output	"R \rightarrow OUT A" (JP1) "USE OUT A/NO IN B"	
		OUT B = R-Output	$"R \to OUT \; B"$	
		OUT C = R-Output	$"R \to OUT \ C"$	
		OUT B = Monitor Output	"MON \rightarrow OUT B"	
		OUT C = Monitor Output	"MON \rightarrow OUT C"	
		OUT B = Unlocked Output	"UNL \rightarrow OUT B"	
		OUT C = Unlocked Output	"UNL \rightarrow OUT C"	
		OUT B = Overload Output	"OVL \rightarrow OUT B"	
		OUT C = Overload Output	"OVL \rightarrow OUT C"	
		OUT C = Reference Output	"REF-OUT \rightarrow OUT C"	
	Reference Connector (JP3)	Reference wiring	Jumper installed	
		REF = Reference Input	"REF-IN \rightarrow REF" (2 Jumper)	
	(Reference Output only if optional Oscillator Module is installed)	REF = Reference Output (Reference Output connected to Ref. Input)	"REF-OUT \rightarrow REF-IN" (2 Jp.) "REF-IN \rightarrow REF" (2 Jumper)	
		REF = Refer. Sync. Input (use OUT C as Reference Ou	"REF-SYNC \rightarrow REF" (2 Jp.) (tput)	

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