

$F_{PN} = 2002000 \text{A}, V_{out} = \pm 4 \text{V}$	 Features Hall effect measuring principle Galvanic isolation between primary and secondary circuit Low power consumption Extended measuring range Isolation voltage 3000V
Advantages	Industrial applications
 Easy installation Small size and space saving 	 DC motor drives Switched Mode Power Supplies(SMPS)
 Only one design for wide current 	 Switchied Woode Fower Supplies(SWI S) AC variable speed drives
♦ ratings range	 Uninterruptible Power Supplies(UPS)
♦ High immunity to external interference	Battery supplied applications
	 Power supplies for welding application

TYPES OF PRODUCTS						
Туре	Primary nominal current	Primary current measuring range				
	r. m. s I _{PN} (A)	I _P (A)				
SIOLS200V2	200	± 400				
SIOLS400V2	400	± 800				
SIOLS600V2	600	±1200				
SIOLS800V2	800	± 1600				
SIOLS1000V2	1000	± 2000				
SIOLS2000V2	2000	± 3000				

General Description

For the electronic measurement of currents: DC, AC, pulsed, mixed, with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit)



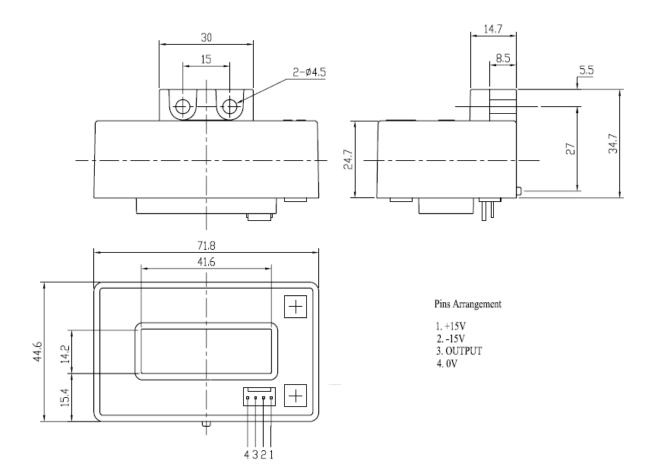
Parameters Table

PARAMETERS	SYMBOL	UNIT	VALUE	CONDITIONS			
Electrical data							
Supply voltage($\pm 5\%$) ⁽¹⁾	V _C	V	±15				
Current consumption	I _C	mA	±15				
Output voltage	V _{out}	V	± 4	$@ \pm I_{PN}, R_L = 10 \text{ k}\Omega,$ $T_A = 25^{\circ}\text{C}$			
Isolation resistance	R _{IS}	MΩ	>1000	@ 500 VDC			
Output internal resistance	R _{OUT}	Ω	100				
Load resistance ⁽²⁾	R_L	KΩ	>10				
Accuracy - Dynamic performance data							
$Linearity^{(3)}(0\pm I_{PN})$	$\epsilon_{\rm L}$	% of I_{PN}	<±1	(<i>a</i>) I_{PN} , $T_A = 25^{\circ}C$			
Accuracy	X_{G}	% of I_{PN}	<±1	(a) I_{PN} , $T_A = 25^{\circ}C$ (excluding offset)			
Electrical offset voltage	V_{OE}	mV	<±20	$@T_{A} = 25^{\circ}C$			
Hysteresis offset voltage	$V_{\rm OH}$	mV	<±10	(a) $I_P = 0$			
Temperature coefficient of V_{OE}	TCV _{OE}	mV/K	<±1				
Temperature coefficient of V_{OUT}	TCV _{OUT}	%/K	<±0.1				
Response time	t _r	μS	<5	@ 90% of I_{PN}			
Frequency bandwidth ⁽⁴⁾	BW	kHz	DC~25	@-3dB			
General data							
Ambient operating temperature	T _A	°C	$-40 \sim +85$				
Ambient storage temperature	Ts	°C	$-40 \sim +105$				
Mass	m	g	300				
Isolation characteristics							
Rated isolation voltage rms	Vb	V	1000				
Rms voltage for AC isolation test	Vd	kV	3	@50 Hz, 1 min			

Notes:

- 1) Operating at $\pm 12V \leq VC \leq \pm 15V$ will reduce the measuring range.
- 2) If the customer uses $10K \Omega$ of the load resistor, the primary current has to be limited as the nominal.
- 3) Linearity data exclude the electrical offset.
- 4) Please refer to derating curves in the technical file to avoid excessive core heating at high frequency.





Dimensions SIOLSV2 (in mm. 1 mm = 0.0394 inch)

Instructions of use

- When the test current passes through the sensors you can get the size of the output voltage.(Warning: wrong connection may lead to sensors damage)
- 2) Based on user needs, the sensors output range can be appropriately regulated.
- According to user needs, different rated input currents and output voltages of the sensors can be customized.



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