

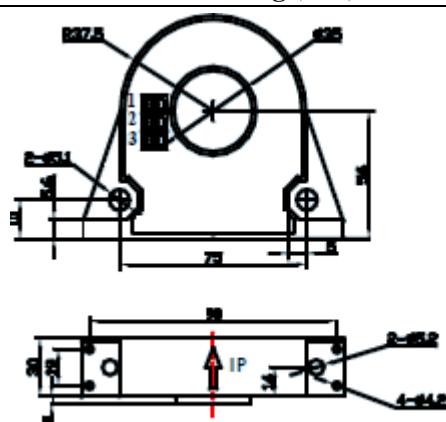


Closed loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

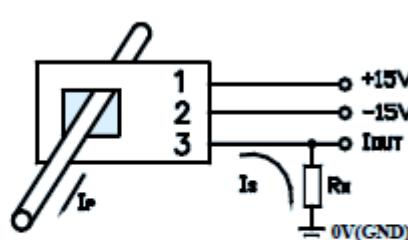
Electrical characteristics

	Type	ASC300X-LTB	ASC500X-LTB	
I _{PN}	Primary nominal input current	300	500	A
I _P	Measuring range of primary current	0~±500	0~±800	A
I _{SN}	Secondary nominal output current	100±0.5%	100±0.5%	mA
K _N	Conversion ratio	1:3000	1:5000	
R _M	Measuring resistance (V _C =±15V)	I _{PN} =±300 0~95	I _{PN} =±300 0~62	Ω
	(V _C =±15V)	I _{PN} =±500 0~40	I _{PN} =±300 0~11	Ω
	(V _C =±15V)	I _{PN} =±300 0~122	I _{PN} =±300 0~88	Ω
	(V _C =±15V)	I _{PN} =±500 0~58	I _{PN} =±300 0~30	Ω
V _C	Supply Voltage	±15~±18(±5%)		
I _C	Current Consumption	V _C =±15V	28+I _S	mA
V _D	Insulation Voltage	AC/50Hz/1min	6	kV
E _L	Linearity	<0.1		
X	Accuracy	T _A =25°C	<±0.7	%
I ₀	Zero offset current	T _A =25°C	<±0.25	mA
I _{OM}	Residual Current	I _P =0	<0.2	mA
I _{OT}	Thermal Drift of I ₀	I _P =0 T _A =-25~85°C	<±0.5	mA
T _R	Response Time	<1		
Di/Dt	Di/Dt accurately followed	>100		
F	Frequency Bandwidth (-3dB)	DC~100		
T _A	Ambient Operating Temperature	-25~+85		
T _S	Ambient Storage Temperature	-40~+100		
R _S	Secondary Coil Resistance (T=25°C)	36	64	Ω
	Special range	Other intermediate input ranges available on request		

Dimensions of drawing (mm)



Connection



Termination Details : 1:+15V 2:-15V 3:I_{0UT}

Remarks

Incorrect connection may lead to the damage of the sensor. I_{SN} is positive when the I_P flows in the direction of the arrow.

• Dynamic performance (di/dt and response time) are best with a primary bar in the center of the through-hole.