

®

# CSM050LX Hall-effect Current Sensor Series

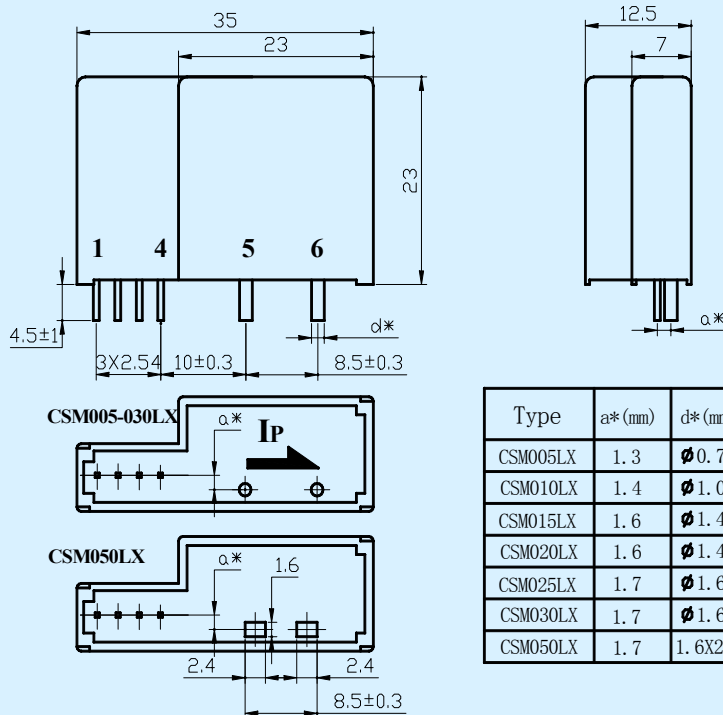


Closed loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

## Electrical characteristics

Type	CSM005 LX	CSM010 LX	CSM015 LX	CSM020 LX	CSM025 LX	CSM030 LX	CSM050 LX		
<b>I<sub>PN</sub></b>	Primary nominal input current								<b>A</b>
<b>I<sub>P</sub></b>	Measuring range of primary current								<b>A</b>
<b>V<sub>OUT</sub></b>	Nominal output voltage								<b>V</b>
<b>V<sub>C</sub></b>	Supply voltage								<b>V</b>
<b>I<sub>C</sub></b>	Current consumption								<b>mA</b>
<b>V<sub>D</sub></b>	Insulation voltage								<b>kV</b>
<b>R<sub>IS</sub></b>	Insulation resistance								<b>MΩ</b>
<b>ε<sub>L</sub></b>	Linearity								<b>%FS</b>
<b>V<sub>O</sub></b>	Offset voltage								<b>mV</b>
<b>V<sub>OM</sub></b>	Residual voltage								<b>mV</b>
<b>V<sub>OT</sub></b>	Thermal drift of V <sub>0</sub>								<b>mV/°C</b>
<b>T<sub>R</sub></b>	Response time								<b>μs</b>
<b>f</b>	Frequency bandwidth(-3dB)								<b>kHz</b>
<b>T<sub>A</sub></b>	Ambient operating temperature								<b>°C</b>
<b>T<sub>S</sub></b>	Ambient storage temperature								<b>°C</b>
<b>R<sub>L</sub></b>	Load resistance								<b>KΩ</b>
<b>m</b>	Mass								<b>g</b>
Standard	Q/320115QHKJ01-2013								

## Dimensions of drawing (mm)



Type	a*(mm)	d*(mm)
CSM005LX	1.3	∅0.7
CSM010LX	1.4	∅1.0
CSM015LX	1.6	∅1.4
CSM020LX	1.6	∅1.4
CSM025LX	1.7	∅1.6
CSM030LX	1.7	∅1.6
CSM050LX	1.7	1.6X2.4

Elucidation: 1:+15V 2:-15V 3:V<sub>OUT</sub> 4:0V 5:+I<sub>P</sub> 6:-I<sub>P</sub>

## Remarks

- Incorrect connection may lead to the damage of the sensor.
- V<sub>OUT</sub> is positive when the I<sub>P</sub> flows in the direction of the arrow.