

# SSV-4KV-M10

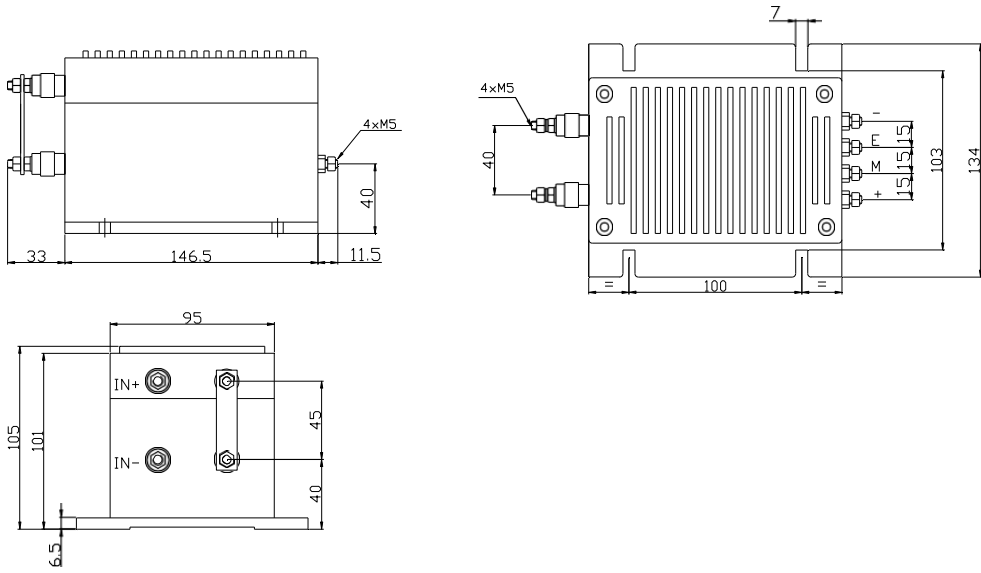
**Closed-loop Hall voltage sensor:** rated voltage 4000V RMS, Hall magnetic compensation works, can be isolated measuring AC, DC, pulse voltage.



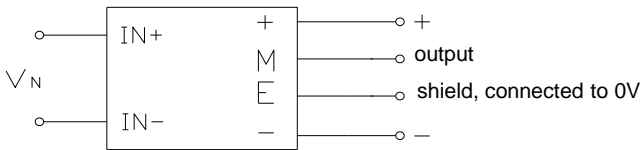
## Performance parameters:

Symbol	Parameters	Value	
V <sub>N</sub>	Rated Voltage (RMS)	4000V	
V <sub>P</sub>	Measuring range V <sub>p-p</sub>	0...±4800V	
K <sub>N</sub>	Turns ratio	160000:2000	
R <sub>M</sub>	Measuring resistance	R <sub>M</sub> min	R <sub>M</sub> max
	V <sub>C</sub> =±24V	60Ω (in V <sub>N</sub> or V <sub>P</sub> )	160Ω;110Ω
I <sub>M</sub>	Output current	The output rating is 50mA, and the corresponding primary side rated voltage V	
X	Accuracy (T <sub>a</sub> =+25°C)	V <sub>N</sub> ±0.5%	
V <sub>C</sub>	Power supply voltage	±24V (±5%)	
V <sub>i</sub>	Insulation voltage	In the primary side and the secondary side circuit between: 10KV RMS/50Hz/1 min	
V <sub>off</sub>	Offset voltage T <sub>a</sub> =+25°C	When the primary voltage V <sub>N</sub> =0, the maximum value: ±0.3mA	
T <sub>d</sub>	Temperature drift T <sub>a</sub> =-25°C~+70°C	V <sub>M</sub> 0.05%/°C	
L	Linearity	0.1%	
T <sub>r</sub>	Reaction time	200μs	
f	Frequency range	-	
T <sub>a</sub>	Operating temperature	-25°C~+70°C	
T <sub>s</sub>	Storage temperature	-40°C~+85°C	
I <sub>c</sub>	Power consumption	30mA + I <sub>M</sub> (measuring current)	
R <sub>s</sub>	Secondary side resistance	36Ω	
	The primary-side internal resistance	85kΩ+R1	
W	Weight	2Kg	

**Mechanical dimensions (mm):**



**Circuit connection diagram:**



Sym.	Description
IN+	Positive input voltage
IN-	Negative input voltage
+	Positive power supply (+24V)
-	Negative power supply (-24V)
M terminal	Output terminal
E terminal	Shielded, connected to 0V