



Panel Mounting

DIGITAL VOLTAGE SENSOR EVS30-XXXX SERIES



Voltage transducer uses special Isolation Barrier technology to measure AC and DC or Pulsed voltages and TRMS treatment, the output signal can be standard RMS voltage or current. The primary input voltage and the output signal is highly electric isolated. It can be used in Power Utility, Converters, Traction, Telecom, Oil & Gas, and New energy fields.

>>>> Features

- AC, DC, Pulsed voltage measurement
- Included primary resistor
- Good linearity
- Galvanic isolation between primary and secondary circuit
- Low power consumption
- High immunity to external interference
- Low thermal drift
- Higher voltage can measure than EVS30

>>>> Electrical characteristics

Primary nominal voltage (Vrms)	V_{PN}	50, 125, 150, 250, 500, 750, 1000, 1500, 2000, 2500, 3000 V
Primary voltage, measuring range (Vrms)	V_P	150% x VPN
Secondary Current output	I_{SN}	50 mA (EVS30-XXXX-A)
Secondary Voltage output	V_{SN}	0 ± 5V (EVS30-XXXX-V)
Accuracy (Ta=+25°C)	X_G	≤ 0.5%
Linearity error	ϵ_L	≤ 0.1%
Power supply voltage (± 15V)	V_C	PN (± 5%)
Offset current (TA = +25 °C)	I_o	≤ ± 0.15 mA
Response time	T_R	≤ 10 μs
Frequency bandwidth	f	DC-1KHZ(-3dB)
Current consumption	I_C	50mA (for current output: + IS)
Load resistance	R_L	≤ 150Ω(for current output) or >5KΩ(for voltage output)
Primary input resistance	R_p	60MΩ
Isolation test (50Hz,1min)	V_D	6.0 kV

>>>> General data

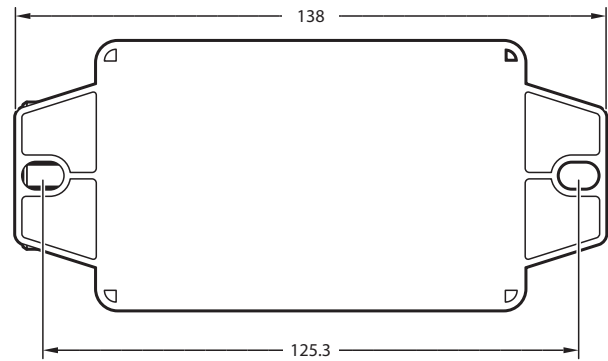
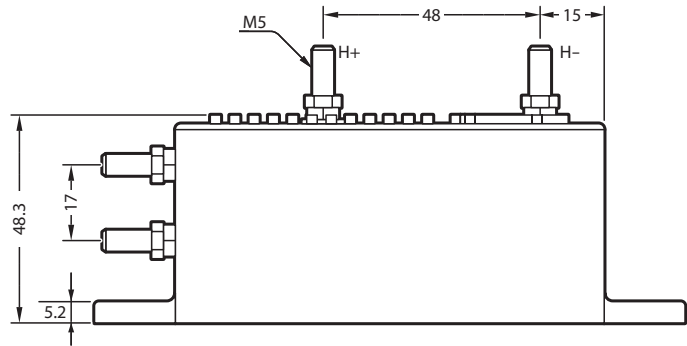
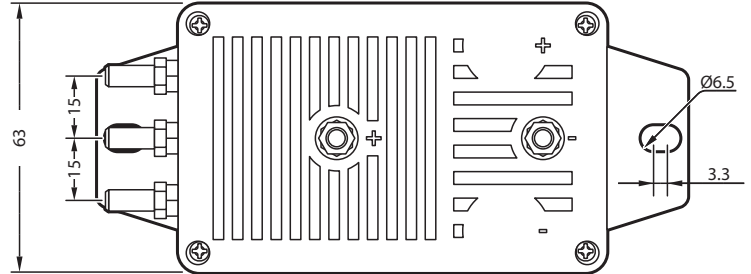
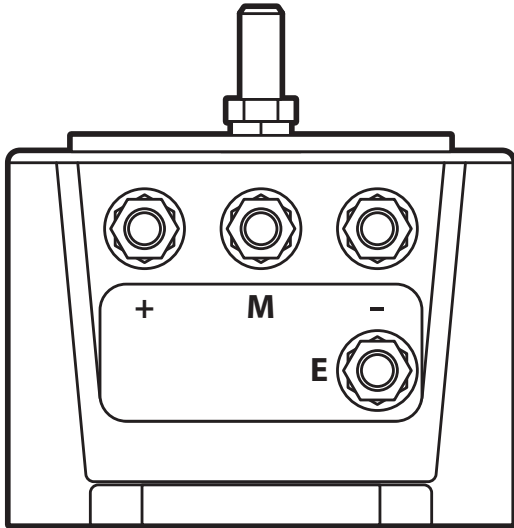
Ambient operating temperature	T_A	-40 °C... +85 °C
Ambient storage temperature	T_S	-50 °C... +90 °C *
Mass	W	350g
Standards	S_T	EN50178
Ambient operating humidity	H_A	20-90% RH
Case material		According to UL94-V0

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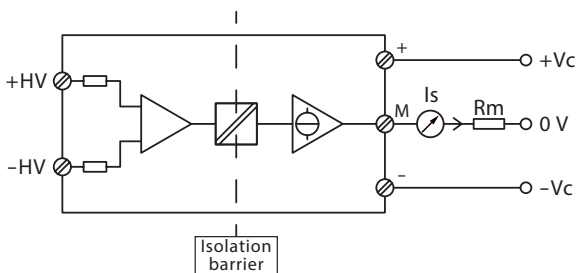
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>>>> Dimensions (mm)



General tolerance	Terminals	Fastening
± 1mm	Input : 2 x M5 Output : 2 x M5	Bottom : 2 x Ø6.5(mm) Side : 2 x Ø4.8(mm)

>>>> Connection diagram



>>>> Output figure

0 ± 5V (EVS30-XXXX-V)

50 mA (EVS30-XXXX-A)

