

# Protected VARAN DMS Module PVAI 011



A bridge circuit with a resolution of 1.1 mV/V can be connected using 4-wire technology. The supply voltage for the bridge is 10 V. The minimum bridge resistance is 100 Ω.

## Interfaces

Interfaces	1x VARAN In (M12)
------------	-------------------

## Input Specifications

Number of channels	1 (4-wire connection)	
Measurement range	1.1 mV/V	
Measurement value	0-4000	
Resolution	12-bit	
Conversion time per channel	≤ 1 ms	
Input filter	cutoff frequency 1 kHz (1 ms)	low pass class 3 system
Excitation voltage	10 V/±2.5 %	
Maximum voltage supply capacity	100 mA maximum, short-circuit proof	
Min. Bridge resistance	100 Ω	
Precision of analog channel measurement	±0.35 % of maximum measurement value	
Repeating accuracy	1.1 mV/V ±0.3 %	
Linearity error	1.1 mV/V ±0.35 %	

## Electrical Requirements

Bus supply voltage	18-30 V	
Current consumption of the bus supply	typically 75 mA/+24 V	maximum 130 mA/24 V

## Article Number and Miscellaneous

Article number	14-109-011	
Hardware version	1.x	
Standard	UL in preparation	
Dimensions	148.4 mm x 79.4 mm x 55 mm (W x H x D)	

## Environmental Conditions

Storage temperature	-20 ... +85 °C	
Operating temperature	0 ... +60 °C	
Humidity	0-95 %, non-condensing	
EMC stability	in accordance with EN 61000-6-2:2001 (industrial area)	
Shock resistance	EN 60068-2-27	150 m/s <sup>2</sup>
Protection type	EN 60529	IP65