

## Datasheet

### Amplifier unit

# DMSVE

For supplying strain gage bridges  
 and for signal amplification



### Technical Data DMSVE

Supply voltage:	12 - 28 V DC at $U_a = \pm 10$ V
Current consumption	depending on the connected measuring bridge
Signal output:	$\pm 5$ V $\pm 10$ V
Input sensitivity:	0,2 mV/V until 5 mV/V
Ripple:	< 50 mVpp
Linearity error:	< 0,04 %
Control activation:	3,5 V until max. 28 V
Signal rise:	0,5 ms / 1 ms / 2 ms    (10 % - 90 %)
Nominal temperature range:	5 - 45 °C
Working temperature range:	0 - 60 °C
Temperature error	
Zero point:	0,02 % / K
Sensitivity:	0,01 % / K
Load resistance at the output:	$\geq 10$ k $\Omega$ (short circuit-proof)
DMS-supply:	7 V ( $\geq 350$ $\Omega$ );
Cable (standard):	2,0 m Signal input directly connected to sensor / 0,5 m Signal output with free cable ends

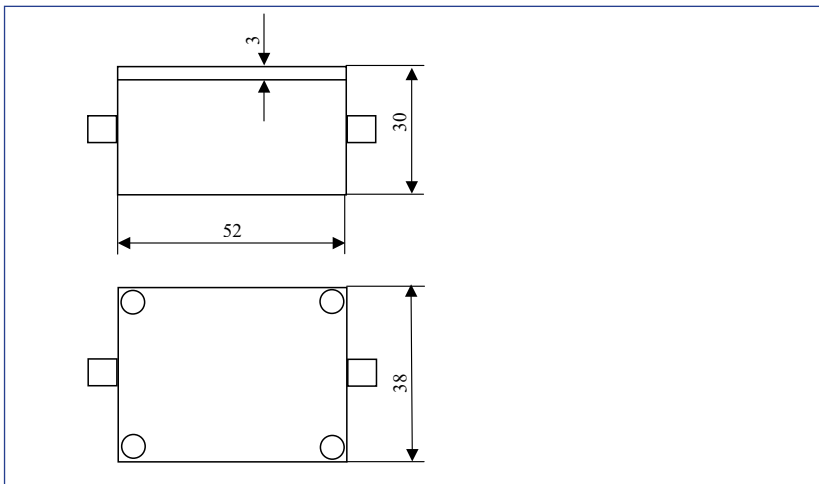
### Cabling variants:

- with free cable ends (standard): DMSVE-01  
Plug 12-pol: DMSVE-02  
Plug 6-pol: DMSVE-03
- Connection about flange and flange plug upon request
- other cable length upon request

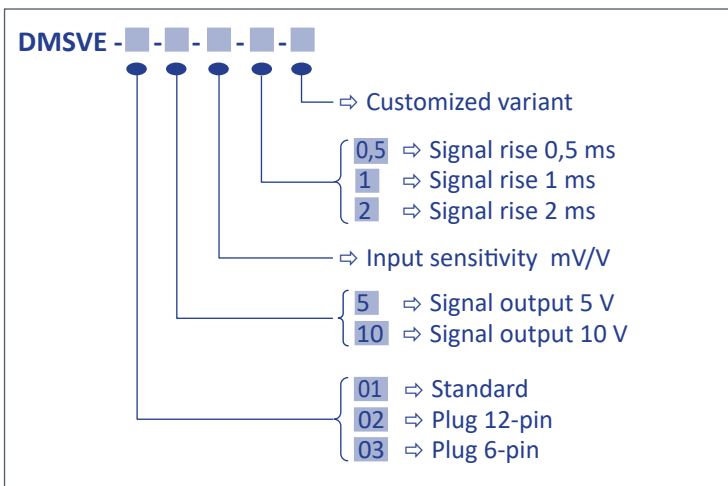
### Customer variants:

- DMS-supply: 5 V ( $\leq 350$   $\Omega$ )
- Memory chip to recognize the sensor data in
- Connection to GMV2 (final value, output voltage, serial number, calibration date, calibration value)
- Built-in version (only board DMSV1)

## Dimensions amplifier-casing



## Ordering code



## Available accessories

Coupling plug  
Coupling sockets  
Flange socket

## Connection assignments for the measuring amplifier DMSVE<sup>[PH|Eg1]</sup>

Cable: LiYCY 6 x 0,14 mm<sup>2</sup>

### DMSVE-01 (standard)

Assignment of free cable ends

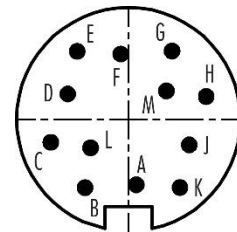
Colour	Assignment
Green	Supply ground
Brown	Supply + 12V – 24V
White	Measurement ground
Yellow	Measurement signal $\pm 5\text{ V}$ ( $\pm 10\text{ V}$ )
Grey	Control input (control via switch to supply +)
Pink	Memory chip (application only possible with GMV2 or ValueMaster <sub>base-</sub> )

### DMSVE-02

Assignment plug 12-pin

Use with: GMV2, ValueView, ValueMaster

PIN	Colour	Assignment
A		NC
B		NC
C	Yellow	Measurement signal $\pm 5\text{ V}$ ( $\pm 10\text{ V}$ )
D	White	Measurement ground
E	Green	Supply ground
F	Brown	Supply + 12V – 24V
G		NC
H	Pink	Memory chip
J		NC
K	Grey	Control input
L		NC
M		NC



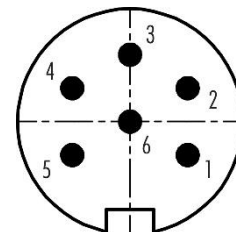
Connector seen from the front

### DMSVE-03

Assignment plug 6-pin

Use with active, static sensors

PIN	Colour	Assignment
1	Green	Supply ground
2	Brown	Supply + 12V – 24V
3		NC
4	Yellow	Measurement signal $\pm 5\text{ V}$ ( $\pm 10\text{ V}$ )
5	White	Measurement ground



Connector seen from the front

Supply and measurement signal ground are galvanically connected