

# Adjustable, integrated strain gauge measuring amplifier

## MV 8.0 WITH TEACH-FUNCTION

### Data sheet

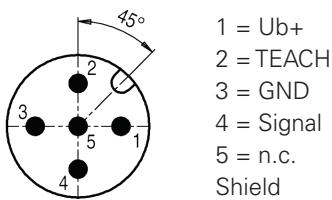
#### Technical data

Measuring amplifier type	Output signal Sig	Supply $U_b$	Further information
MA with current output 3-conductor	4...20 mA 1...10 mA	11...30 V	Output load $< (U_b - 3V) / Sig_{max}$ ; max. 1200 $\Omega$
MA with voltage output	0...10 V	11...30 V	Load max 2.5 mA

- » Connection to strain gauge measuring bridges
- » Can be integrated in the sensor types Shear force transducer SK, Compression load cell DD 2.x and DD 3.x, Shear force load cell SW 2.x-SW 6.x, Tension and pressure transducer ZD
- » Max. current consumption 50 mA
- » Resolution ADC max. 14 bit
- » Measuring rate 850 Hz
- » Nominal temperature range  $-10^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- » Working temperature range  $-30^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$
- » Electrical protection Reverse voltage, short circuit, overvoltage protection
- » Adjustable with Teach Function Zero, gain and tare adjustable via external control line  
Number of read/write cycles is limited to a maximum of 1000  
Data storage for at least 10 years
- » Application For static and cyclical applications

#### Connection to sensor with integrated measuring amplifier

M 12x1



#### Optionen

- » Compliant with ISO 16750-2 testing and ISO 7637 pulse 5a, 5b, 7 (load dump protection)