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Sensor-Interface

Type LCV

- for all strain gauge sensors
- direct connection to the PLC
- Signal output 0 - 10 V (or 4 -20 mA optional)
- Long cable between sensor and data logging possible
- With the option supply voltage 8-16 V fit for applications in the car industry
- Qualified for integration in some sensors

The LCV-Interface provides the Interface between the passive output of strain gauge transducers and control unit.

The supply about 16 till 32V and the signal output about 0 – 10V or 4 – 20mA allows using LMV-Interface with PLC´s.

The LCV-Interface contains the supply and the amplifier of the strain gauge transducers.

The Interface LCV is integrated in the cable between sensor and the data logging system. A high level of protection is guaranteed. The practical housing allows a fast fixing with a simple screw clip. Is there enough place into the sensor, so there is the possibility to integrate the print board inside of the sensor.

Delivery
By an order with a sensor at our program we deliver the sensor assembled and calibrated.

Specifications

Type		LCVU (±10 V)	LCVI (0-20 mA) LCVI (4-20 mA)
Output side			
	Supply voltage	16 - 32 V DC	
	Ripple	< 10 %	
	Input current	< 40 mA	< 60 mA
	Output signal	± 10 V ≤ 5 mA	0 -20 / 4 - 20 mA (3 – Wire)
	Ripple	< 20 mV	
	Gain drift	< 0,05 % / 10 K	< 0,1 % / 10 K
	Zero drift	< 0,15 % / 10 K	< 0,2 % / 10 K
	Load resistor	> 2 kΩ	< 500 Ω
	Output resistance	< 1 Ω	0,001 Ω
General:	max. cable length at the output	2 m (max. 10 m)	2 m (max. 100 m)
Specifications:	max. resistance of the cable	10 Ω	30 Ω
Sensor side			
	Excitation voltage	5 V	
	Max. sensor current	≤50 mA	
	TC excitation voltage	0,1 mV / K	
Signal input:	Input range	2,5 - 15 mV	
	Input resistance	10^9 Ω	
General:	Cable length Sensor - Interface	1 m (max. 2,5 m)	
Remaining			
	Dynamic (- 3 dB)	< 1,2 kHz	1 kHz
	Nominal temperature range	10 - 40 °C	
	Operating temperature range	0 - 60 °C	
	Storage temperature range	(-10) - 70 °C	
	Dimensions icl. grommet ∅ x L	25 x 115 mm (Standard)	
	Level of protection	IP 67	
Options			
	Supply voltage	8 - 16 V DC	
	Output voltage	± 5 V ≤ 5 mA	