

Technical data - Measuring amplifier KMV 04

Designation		KMV 04	
Design		aluminium flanged housing	
Accuracy class		0,1	
Sensors to be connected: - strain gauge, full bridge	Ω	admissible connection impedance 350 to 1000	
Bridge excitation voltage	V DC	10	
Nominal gain G_{nom}		667	
Nominal measuring range U_{sig}	mV	± 15 (accordant 1,5mV/V @ 10V excitation voltage)	
Adjustment range calibration (CAL)	% F_N	85 ...100 ...500	
Adjustment range zero (ZERO)	% F_N	± 45	
Cut-off frequency f_C (-3 dB)	Hz	approx. 70	
Output - voltage output (standard)	V	0 to ± 10 , max. 1 mA	
- current output 0-20 (optional)	mA	0 to + 20, admissible load 100 to 300 Ω	
- current output 4-20 (optional)	mA	4 to + 20, admissible load 100 to 300 Ω	
Nominal temperature range	$^{\circ}$ C	0 to + 50	
Operation temperature range	$^{\circ}$ C	0 to + 50	
Storage temperature range	$^{\circ}$ C	- 30 to + 75	
Temperature influence per 10 $^{\circ}$ C - on zero at amplifier output	mV	< 10	
- on calibration	% ¹	< 0,05	
Supply voltage	V DC	20 to 28	
Current consumption (with 350 Ω bridge, no load)	mA	approx. 36	
Dimensions (L x W x H)	mm	50 x 64 x 33	
Weight (without connection cable)	g	approx. 100	
Connection cable - Sensor connection - Power / Out connection		robust, flexible, shielded, 4 x 0,14 mm ² cable \varnothing 4,5 mm, open ends with splices sheath special PVC operating temperature -30 to +80 $^{\circ}$ C 0,4 m long, fixed connection 3 m long, open ends with splices	

¹ of final value

Explanation of grammalogue:

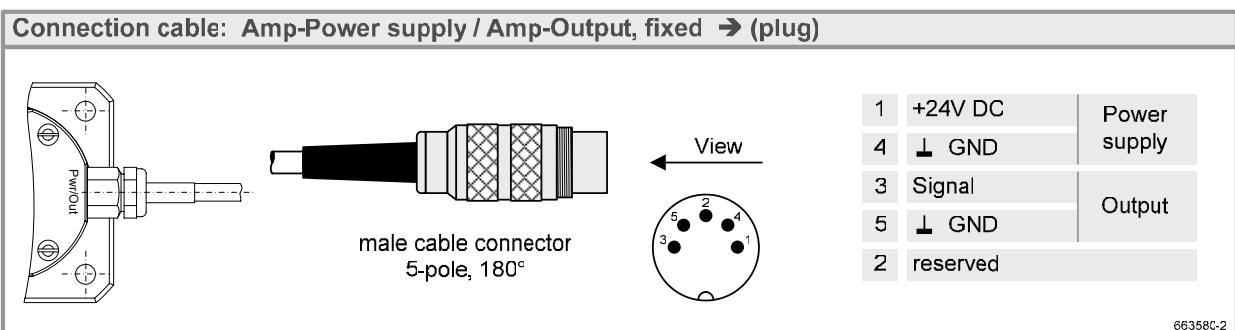
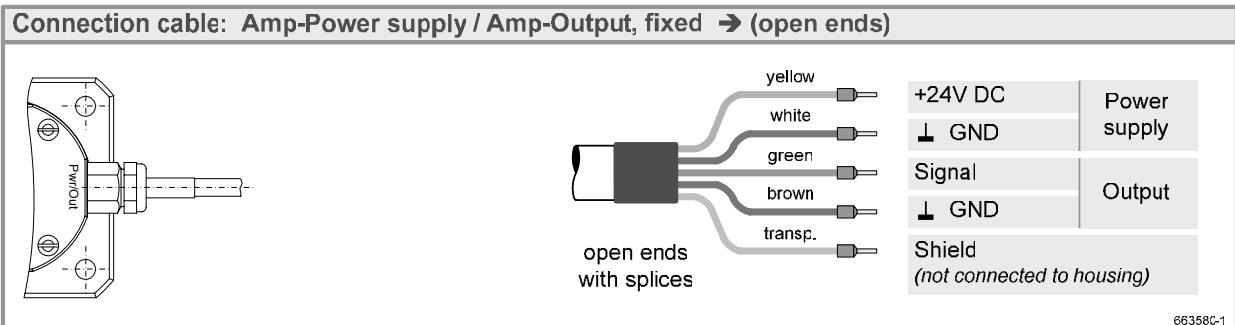
f_C \Rightarrow Cut-off frequency
 G_{nom} \Rightarrow Nominal Gain

U_{sig} \Rightarrow Input voltage
 F_N \Rightarrow Nominal measuring force

*Technical execution subject to change without prior notice.
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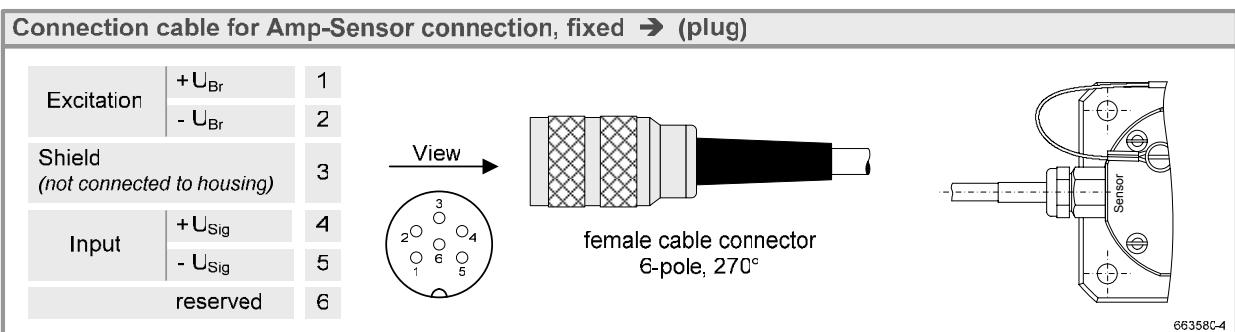
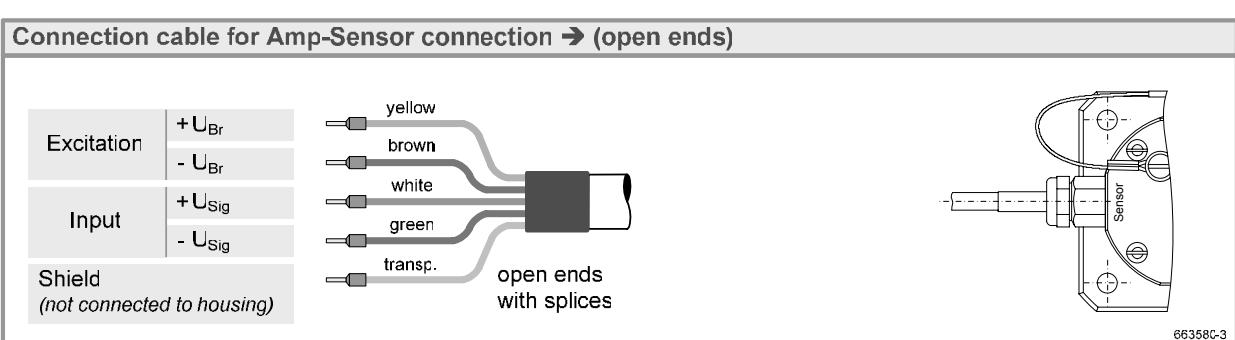
Connections

Power Supply and Output Signal



Sensor connection

In standard the connection between sensor and amplifier is fix.



Amp → amplifier

Dimensions

