Technical data - Measuring amplifier KMV 04

Designation Design Accuracy class		KMV 04 aluminium flanged housing 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	85100500			
Adjustment range zero (ZERO)	% F _N	± 45			
Cut-off frequency f _C (-3 dB)	Hz	approx. 70			
Output					
- voltage output (standard)	V	0 to \pm 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	° C	0 to + 50			
Operation temperature range	° C	0 to + 50			
Storage temperature range	° C	- 30 to + 75			
Temperature influence per 10 °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	robust,	robust, flexible, shielded, 4 x 0,14 mm ²			
	cable ∅	cable \varnothing 4,5 mm, open ends with splices			
	sheath	sheath special PVC			
ok		operating temperature -30 to +80 °C			
- Sensor connection	0,4 m lo	0,4 m long, fixed connection			
- Power / Out connection	3 m long, open ends with splices				

¹ of final value

Explanation of grammalogue:

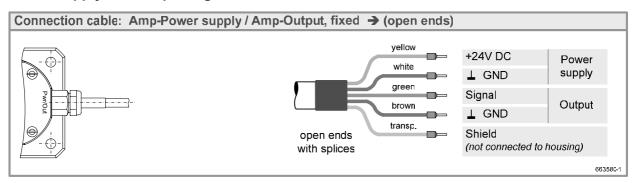
 f_{C} \Rightarrow Cut-off frequency U_{sig} \Rightarrow Input voltage

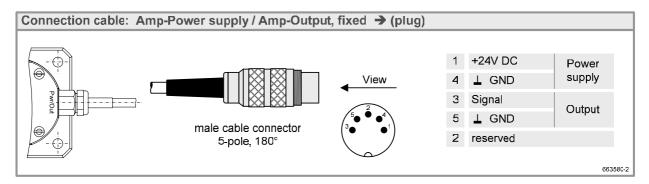
 G_{nom} \Rightarrow Nominal Gain F_N \Rightarrow Nominal measuring force

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Connections

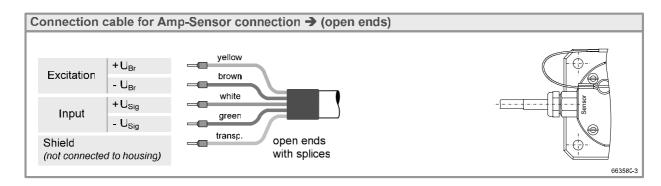
Power Supply and Output Signal

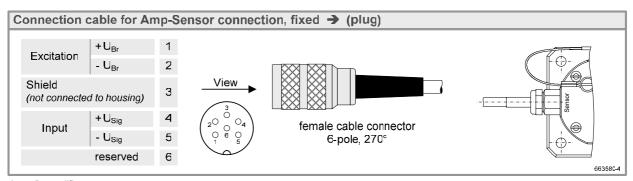




Sensor connection

In standard the connection between sensor and amplifier is fix.





Amp → amplifier

Dimensions

