Technical data - Measuring amplifier KMV 04 FM

Designation		**KMV 04 FM**
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) - current output 0-20 (optional) - current output 4-20 (optional)	 V mA mA	 0 to ± 10, max. 1 mA 0 to + 20, admissible load 100 to 300 Ω 4 to + 20, admissible load 100 to 300 Ω
Nominal temperature range Operation temperature range Storage temperature range	° C ° C ° C	0 to + 50 0 to + 50 - 30 to + 75
Temperature influence per 10 °C - on zero at amplifier output - on calibration	 mV % [1]	 < 10 < 0,05
Supply voltage Current consumption (with 350 Ω bridge, no load)	V DC mA	20 to 28 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 mm² cable ∅ 4,5 mm, open ends with splices sheath special PVC operating temperature -30 to +80 °C 0,4 m long, fixed connection 3 m long, open ends with splices	

[1] of final value

Explanation of grammalogue:

f_C ⇒ Cut-off frequency
G_{nom} ⇒ Nominal Gain
U_{sig} ⇒ Input voltage
F_N ⇒ Nominal measuring force

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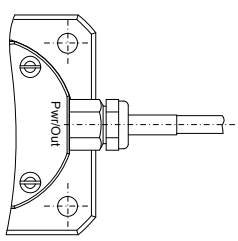
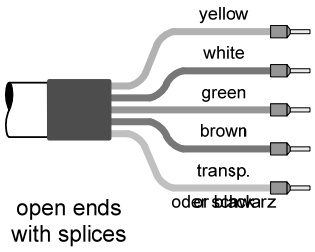
Connections

Power Supply and Output Signal

Connection cable for Amp-Power supply / Amp-Output, fixed ➔ (open ends)





+24V DC	Power supply	
⊥ GND		
Signal	Output	
⊥ GND		
Shield *(not connected to housing)*		

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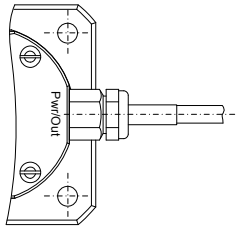
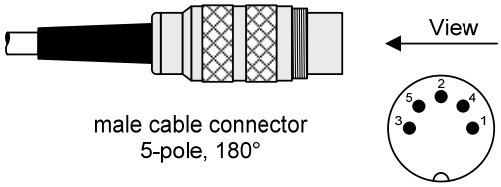
Connection cable: Amp-Power supply / Amp-Output, fixed ➔ (plug)





1	+24V DC	Power supply
4	⊥ GND	
3	Signal	Output
5	⊥ GND	
2	reserved	

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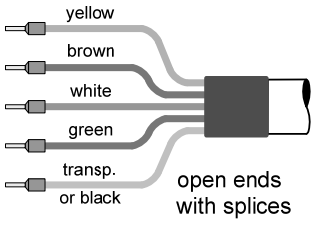
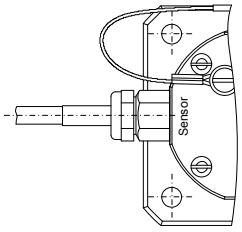
Sensor connection

In standard the connection between sensor and amplifier is fix.

Connection cable for Amp-Sensor connection, fixed ➔ (open ends)

Excitation	+ U_{Br}
	- U_{Br}
Input	+ U_{Sig}
	- U_{Sig}
Shield *(not connected to housing)*	





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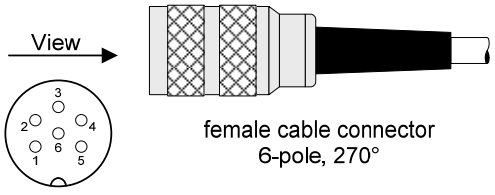
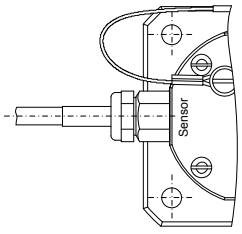
Connection cable for Amp-Sensor connection, fixed ➔ (plug)

Excitation	+ U_{Br}	1
	- U_{Br}	2
Shield *(not connected to housing)*		3
Input	+ U_{Sig}	4
	- U_{Sig}	5
	reserved	6





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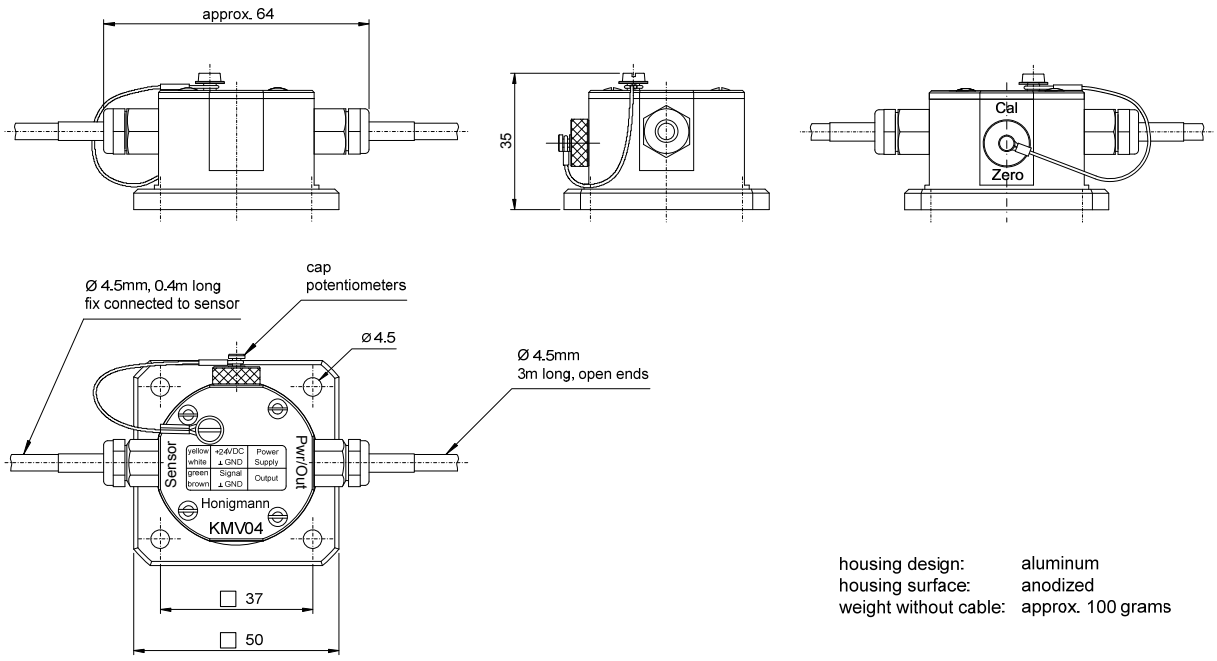
Amp ➔ amplifier

Dimensions



KMV 04 Dimensions

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Honigmann