

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) - 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	$^{\circ}C$	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 - on calibration	mV % ¹	< 10 < 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

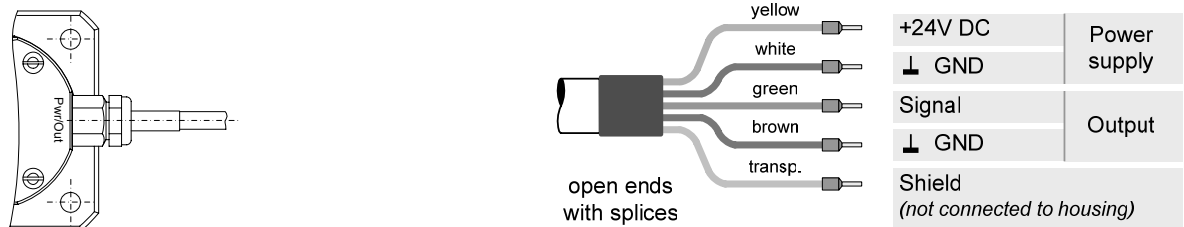
U_{sig} \Rightarrow Input voltage
 F_N \Rightarrow Nominal measuring force

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Connections

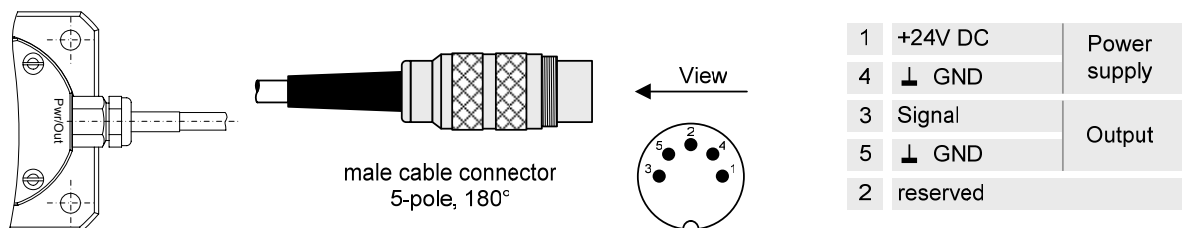
Power Supply and Output Signal

Connection cable: Amp-Power supply / Amp-Output, fixed → (open ends)



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

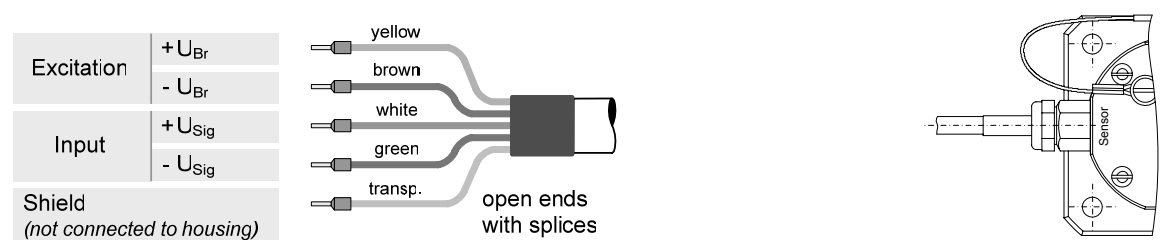


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Sensor connection

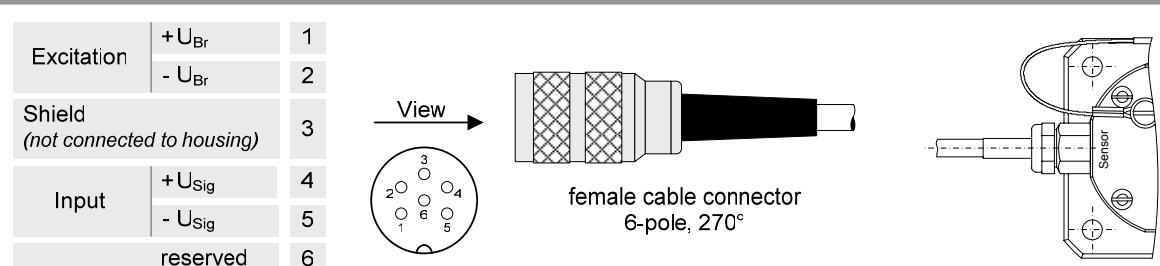
In standard the connection between sensor and amplifier is fix.

Connection cable for Amp-Sensor connection → (open ends)



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



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Amp → amplifier

Dimensions

