

## Technical data - Measuring amplifier CMA 03-CH

Designation		<b>CMA 03-CH</b>
Design		<b>Cylindrical Housing Design, Aluminium</b>
Accuracy class		<b>0,1</b>
Sensors to be connected: - strain gauge, full bridge	$\Omega$	admissible connection impedance 350 to 1000
Bridge excitation voltage	V DC	10
Nominal gain $G_{nom}$		667
Nominal measuring range $U_{sig}$	mV	$\pm 15$
Adjustment range zero ( ZERO )	% $F_N$	$\pm 45$ at 350 $\Omega$ strain gauge, full bridge
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 $\pm 10$ , max. 1 mA 0 to 20, admissible load 0 ... 300 $\Omega$ 4 to 20, admissible load 0 ... 300 $\Omega$
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 % <sup>1</sup>	< 10 < 0,05
Supply voltage	V DC	20 to 28
Current consumption ( with 350 $\Omega$ bridge, no load )	mA	approx. 36
Dimensions		see drawing
Weight ( without connection cable )	g	approx. 100
Connection cable  - Sensor connection - Power / Output connection	robust, flexible, shielded, 4 x 0,14 mm <sup>2</sup> cable $\varnothing$ 4,5 mm, sheath special PVC operating temperature -30 to 80 $^{\circ}C$ female socket, 6-pole 270 $^{\circ}$ , gold-plated contacts 1 m long, open ends, fixed installed optionally with male cable connector, 5-pole 180 $^{\circ}$ , gold-plated contacts	

<sup>1</sup> of final value

Explanation of grammalogue:

$f_c$   $\Rightarrow$  Cut-off frequency

$U_{sig}$   $\Rightarrow$  Input voltage

$G_{nom}$   $\Rightarrow$  Nominal Gain

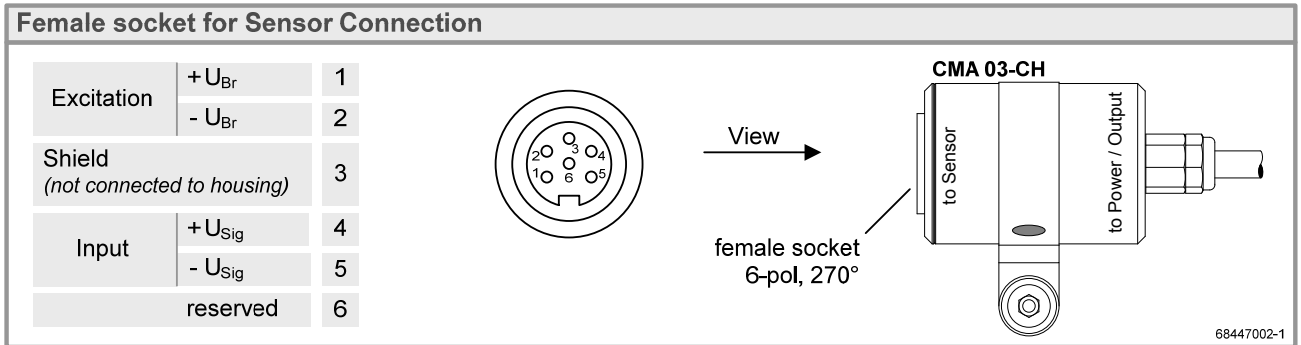
$F_N$   $\Rightarrow$  Nominal measuring force

*Technical execution subject to change without prior notice.*

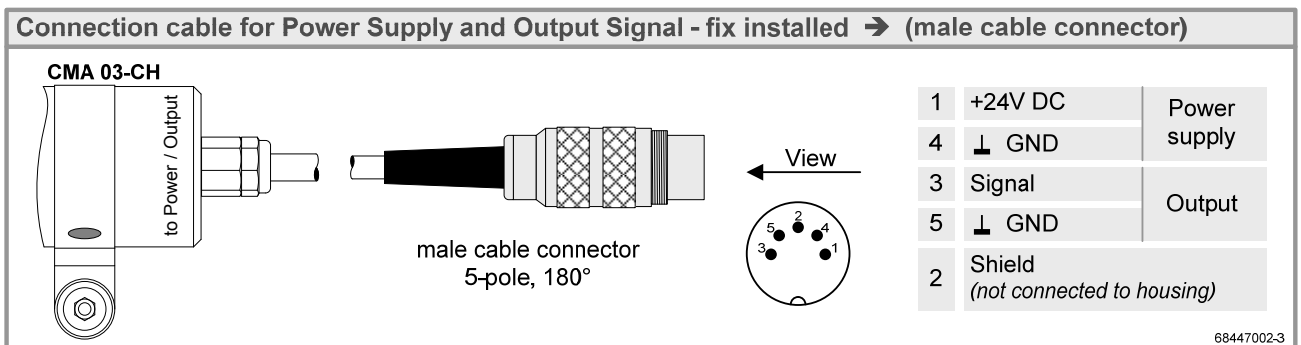
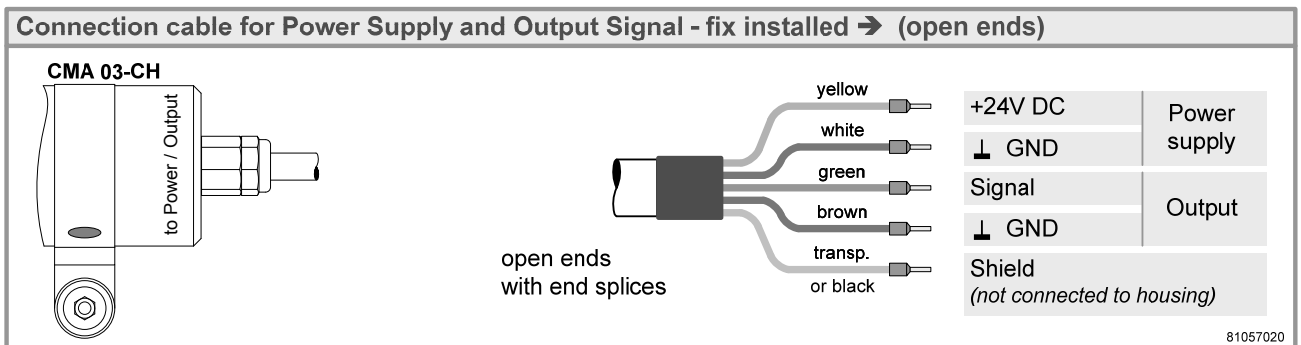
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# Connections

## Sensor connection



## Power Supply and Output Signal



# Dimensions

