

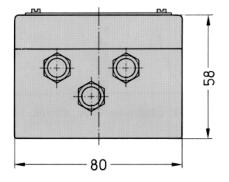
MC2A, MC3

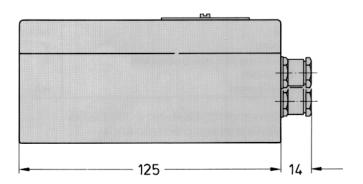
Measuring amplifiers for inductive and strain gage full-bridge

Special features

- Analog carrier frequency amplifier for industrial automation and process control
- Two switchable measuring ranges
- Integral limit value switch
- Easy operation and installation
- Dustproof and hoseproof housing
- +4...+20 mA output stage (option)

Dimensions (in mm; 1 mm= 0.03937 inches)







Specifications

Туре		MC2A	МСЗ
Accuracy class	%	0.1	
Transducers which can be connected Inductive transducers (half bridge) Strain gage transducers (full bridge) Maximum cable length Bridge excitation voltage Carrier frequency Number of measuring ranges Measuring ranges, switchable (factory setting) Continuous fine adjustment Bridge balancing range (factory setting) Measuring frequency range (-1 dB) Phase transit time Rise time Overshoot with square wave voltage	mH Ω m Vrms kHz mV/V % mV/V Hz ms ms ms	820 -100 $2.0\pm10\%$ $5\pm8\%$ 2 $\pm8;\pm80$ ±20 ±9 0100 1.7 2.5 5	$\begin{array}{c} -\\ 3001400\\ 25\\ 2.0\pm3\%\\ 1\pm5\%\\ 2\\ \pm2;\pm0.2\\ \pm20\\ \pm0.1\\ 030^1)\\ 3.5\\ 5\\ 0\end{array}$
Output (asymmetrical) Nominal voltage (impressed) Permissible load resistance Internal resistance Maximum current Residual carrier voltage Operating voltage (DC)	V Ω Ω mA %	±5 >2500 >5 ±2 <1	
Maximum current consumption	mA	< 60; typ. 50	
Effect of a change of 10 V in the operating voltage in the range of 10.5 26 V on sensitivity zero point Limit value switch with collector output Limit value setting range Adjustable hysteresis Temperature effect on the switching point per 10K in	% % V mV	<0.02 <0.02 0+5 25	
the nominal temperature range Maximum switching voltage Maximum switching current	% V mA	< 0.2; typ. 0.1 +28 50	
Optional current output stage Nominal current Permissible burden Internal resistance Maximum voltage Tolerance on the setting for the input voltage 0 V(+4 mA)5 V(+20 mA) Maximum current consumption	mA Ω MΩ V % mA	+4+20 0400 >1 +8 ±0.2 80	
Temperature effect per 10 K in the nominal temperature range on sensitivity zero point	%	< 0.2; typ. 0.1	
in the meas. range of 8 mV/V or 0.2 mV/V, at output in the meas. range of 80 mV/V or 2 mV/V, at output	mV mV	<20 <3.5	< 6.5 < 2
Nominal temperature range	°C [°F]	-20+60 [·	-4+140]
Service temperature range	°C [°F]	-20+60 [-4+140]	
Storage temperature range	°C [°F]	-20+75 [-4+167]	
Long term drift over 48 h (after 1 h warm up time)	μ V/V	<20	< 0.2
Weight, approx.	g	600	
Degree of protection	-	IP 65	
Mounting		2 through holes for screwes Ø 4 mm	
Housing material		diecast aluminum enclosure	
) 0 65 Hz at –3dB	<u> </u>	2.30401 4.411111	

^{1) 0 ... 65} Hz at -3dB

Option: 4 mA...20 mA output stage, 1-MC3/Z01

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