

Strain gage/load cell amplifier - MCR-SGA-LN-DC - 5603007

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Signal conditioner, low noise, for strain gage/load cell

Illustration shows standard version

Product Description

Universal low noise strain gage/load cell amplifier. 1.25 to 12-volt adjustable excitation, 0-5 V, 0-10 V, ± 5 V, ± 10 V and 4-20 mA output

Key Commercial Data

Packing unit	1 pc
Minimum order quantity	504 pc
Weight per Piece (excluding packing)	182.6 g
Custom tariff number	85369085
Country of origin	United States

Technical data

Dimensions

Width	22.5 mm
Height	99 mm
Depth	111 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	3300 m (Above sea level)

Input data

Description of the input	Excitation voltage
Voltage input signal	1.25 V ... 12 V
Max. input current	100 mA
Protective circuit	Short-circuit and thermal protection
Bridge resistance	120 Ω ... 20000 Ω
Gain range	1 V ... 10000 V (13 steps)

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Technical data

Input data

Input range of the sensor	0.1 mV ... 1000 mV
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Output data

Voltage output signal	0 V ... 5 V
	0 V ... 10 V
	-10 V ... 10 V
	-5 V ... 5 V
Current output signal	4 mA ... 20 mA

Power supply

Supply voltage range	11 V DC ... 30 V DC
Max. current consumption	250 mA (350 W, full bridge at 10 V Excitation)
Typical current consumption	105 mA

Connection data

Connection method	COMBICON plug-in screw terminal block
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²

Classifications

eCl@ss

eCl@ss 4.0	27200303
eCl@ss 4.1	27200303
eCl@ss 5.0	27200303
eCl@ss 5.1	27200303
eCl@ss 6.0	27200303

ETIM

ETIM 2.0	EC001440
ETIM 3.0	EC001440
ETIM 4.0	EC001440

UNSPSC

UNSPSC 6.01	30211506
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Classifications

UNSPSC

UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 13.2	39121008