

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



5603007

<https://www.phoenixcontact.com/us/products/5603007>

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



## Product Description

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

## Commercial Data

Item number	5603007
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C01
Product Key	CK1833
GTIN	4046356134286
Weight per Piece (including packing)	184.6 g
Weight per Piece (excluding packing)	184.6 g
Customs tariff number	85389091
Country of origin	US

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## Technical Data

### Notes

#### Trade restriction

CE note	The products are offered exclusively for export outside the EU and the European Economic Area.
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### Product properties

Product type	Signal conditioner
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### Electrical properties

#### Supply

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

### Input data

#### Signal:

Description of the input	Excitation voltage
Voltage input signal	1.25 V ... 12 V
Max. current input signal	100 mA
Protective circuit	Short-circuit and thermal protection
Input impedance	10 GΩ
Bridge resistance	120 Ω ... 20000 Ω
Gain range	1 V ... 10000 V (13 steps)
Input range of the sensor	0.1 mV ... 1000 mV

### Output data

#### Signal:

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

### Connection data

Connection method	COMBICON plug-in screw terminal block
Conductor cross section solid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12

### Dimensions

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Width	22.5 mm
Height	99 mm
Depth	111 mm

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	3300 m (Above sea level)
Permissible humidity (operation)	10 % ... 90 %

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## Classifications

### ECLASS

ECLASS-9.0	27210120
ECLASS-10.0.1	27210120
ECLASS-11.0	27210120

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## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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