

# MCR-SGA-4/6-DC - Strain gage/load cell amplifier



5604058

<https://www.phoenixcontact.com/us/products/5604058>

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Signal conditioner for strain gage/load cell



## Product description

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

## Commercial data

Item number	5604058
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C401
Product key	DK1118
GTIN	4046356683685
Weight per piece (including packing)	161.1 g
Weight per piece (excluding packing)	159 g
Customs tariff number	85437090
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	100 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 ... 2000 V (10 steps)
Input range of the sensor	0.1 mV ... 200 mV

### Output data

#### Signal

Voltage output signal	0 V ... 5 V
	0 V ... 10 V
	0 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 rigid	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-13.0	27210120
ECLASS-15.0	27210120

### ETIM

ETIM 10.0	EC002653
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### UNSPSC

UNSPSC 21.0	39121708
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Diboron trioxide(CAS: 1303-86-2)
	Lead monoxide (lead oxide)(CAS: 1317-36-8)
	Lead(CAS: 7439-92-1)

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