

5603007

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

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, ± 5 V, ± 10 V and 4-20 mA output

Commercial data

Item number	5603007
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C401
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

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



5603007

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

Technical data

Notes

Trade restriction

CE note

The products are offered exclusively for export outside the EU and the European Economic Area.

Product properties

Product type

Signal conditioner

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 G Ω

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 rigid

0.2 mm² ... 4 mm²

Conductor cross section flexible

0.2 mm² ... 2.5 mm²

Conductor cross section AWG

24 ... 12

Dimensions

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



5603007

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

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 %

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



5603007

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

Classifications

ECLASS

ECLASS-11.0	27210120
-------------	----------

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.)	Lead(CAS: 7439-92-1)