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

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

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	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 mm² ... 4 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 12

Dimensions

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 %

Classifications

ECLASS

ECLASS-13.0	27210120
ECLASS-15.0	27210120

ETIM

ETIM 10.0	EC002653

UNSPSC

UNSPSC 21.0	39121708

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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https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com