

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

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	158.76 GRM
Custom tariff number	85437090
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 ... 2000 V (10 steps)
Input range of the sensor	0.1 mV ... 200 mV

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Output data

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

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	100 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/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded 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
eCl@ss 7.0	27210904
eCl@ss 8.0	27210904

ETIM

ETIM 2.0	EC001438
ETIM 3.0	EC001438
ETIM 4.0	EC001438
ETIM 5.0	EC001438

UNSPSC

UNSPSC 6.01	30211916
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Classifications

UNSPSC

UNSPSC 7.0901	39121535
UNSPSC 11	39121535
UNSPSC 12.01	39121008
UNSPSC 13.2	39121535