

Product data sheet

Specifications



Harmony analog, Isolated analog converter, 0...15 A current to 0...10 V or 4...20 mA

RMCA61BD

Main

Range of product	Harmony Analog
Product or component type	Voltage/current converter
Analogue input type	Current 0...1.5 A AC/DC 50/60 Hz Current 0...15 A AC/DC 50/60 Hz Current 0...5 A AC/DC 50/60 Hz
Analogue output type	Current 0...20 mA \leq 500 Ohm by cabling Current 4...20 mA \leq 500 Ohm by cabling Voltage 0...10 V \geq 100 kOhm by cabling

Complementary

Protection type	Reverse polarity protection on output Short-circuit protection on output Overvoltage protection on output (+/- 30 V)
Abnormal analogue output voltage	-15...0 V no input or input wire broken
Abnormal analogue output current	-30...0 mA, output selected 0...20 mA no input or input wire broken 4...30 mA, output selected 4...20 mA no input or input wire broken
[Us] rated supply voltage	24 V DC +/- 20 %, isolated
Current consumption	\leq 70 mA for voltage output \leq 90 mA for current output
Local signalling	LED (green) for power ON
Measurement error	+/- 10 % of full scale at 20 °C (electromagnetic interference of 10 V/m) +/- 5 % of full scale at 20 °C
Repeat accuracy	+/- 0.2 % full scale at 20 °C +/- 0.6 % full scale at 60 °C
Temperature coefficient	1000 ppm/°C, range: 0...5 A 2000 ppm/°C, range: 0...15 A 500 ppm/°C, range: 0...1.5 A
Clamping connection capacity	2 x 1.5 mm ² 1 x 2.5 mm ²
Tightening torque	0.6...1.1 N.m
Marking	CE
Surge withstand	0.5 kV during 1.2/50 μ s conforming to IEC 61000-4-5
[Ui] rated insulation voltage	2 kV
Fixing mode	By screws (mounting plate) Clip-on (35 mm symmetrical DIN rail)
Safety reliability data	B10d = 22108 MTTFd = 23.9 years

Net weight	0.15 kg
Environment	
Standards	IEC 60947-1 IEC 60584-1
Product certifications	CSA UL GL
IP degree of protection	IP20 (terminal block) IP50 (housing)
Fire resistance	850 °C conforming to IEC 60695-2-1 850 °C conforming to UL
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	5 gn (f= 10...100 Hz) conforming to IEC 60068-2-6
Resistance to electrostatic discharge	6 kV (in contact) conforming to IEC 61000-4-2 level 3 8 kV (in air) conforming to IEC 61000-4-2 level 3
Resistance to fast transients	1 kV (on input-output) conforming to IEC 61000-4-4 2 kV (on power supply) conforming to IEC 61000-4-4
Disturbance radiated/ conducted	CISPR 11 CISPR 22 group 1 - class B
Ambient air temperature for storage	-40...85 °C
Ambient air temperature for operation	0...50 °C mounting side by side 0...60 °C 2 cm spacing
Pollution degree	2 conforming to IEC 60664-1

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	160.0 g
Package 1 Height	4.852 cm
Package 1 width	8.168 cm
Package 1 Length	8.397 cm
Unit Type of Package 2	S02
Number of Units in Package 2	33
Package 2 Weight	6.131 kg
Package 2 Height	15.0 cm
Package 2 width	30.0 cm
Package 2 Length	40.0 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile

Circularity Profile[End of Life Information](#)

California proposition 65

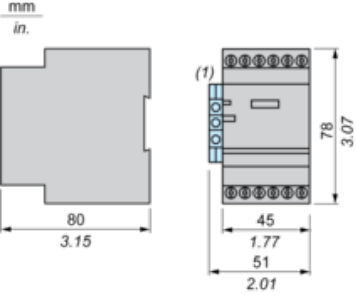
WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty18 months

Analog Interface: Voltage/Current Converter

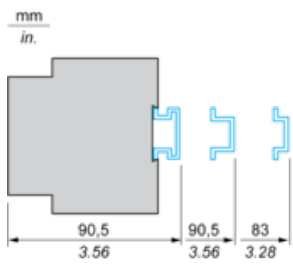
Dimensions



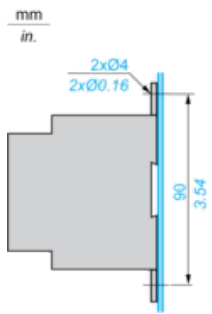
(1) Terminal block AB1TP435U or AB1RRNTP435U2

Mounting

Mounting on Rails AM1•••••

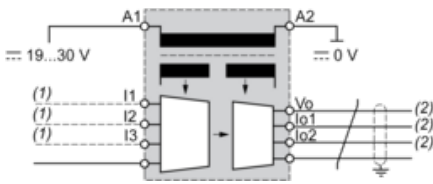


Panel Mounting



Analog Interface: Voltage/Current Converter

Wiring Diagram



(1) Use 1 input only.

(2) Use 1 output only.

The input, output and power supply lines must be kept away from the power cables to avoid effects due to induced interference.

The supply, input and output cables must be shielded as indicated in the schemes and must be kept away from each other.