



Harmony Analog, Voltage/current converter, Isolated 0...20 mA

RMCL55BD

Main

Range of product	Harmony Analog Voltage/current converter	
Product or component type		
Analogue input type	Current 020 mA Current 420 mA Voltage +/- 10 V DC Voltage 010 V DC	
Analogue output type	Current 020 mA <= 500 Ohm switchable Current 420 mA <= 500 Ohm switchable Voltage +/- 10 V >= 100 kOhm switchable Voltage 010 V >= 100 kOhm switchable	

Complementary		
Protection type	Reverse polarity protection on output Short-circuit protection on output Overvoltage protection on output (+/- 30 V)	
Abnormal analogue output voltage	1115 V, output selected - 1010 V no input or input wire broken voltage 1115 V, output selected 010 V no input or input wire broken voltage -150 V, output selected 020 mA no input or input wire broken current -150 V, output selected 420 mA no input or input wire broken current	
Abnormal analogue output current	2230 mA, output selected 020 mA no input or input wire broken voltage 2230 mA, output selected 420 mA no input or input wire broken voltage -300 mA, output selected 020 mA no input or input wire broken current 430 mA, output selected 420 mA no input or input wire broken current	
[Us] rated supply voltage	24 V DC +/- 20 %, isolated	
Current consumption	<= 70 mA for voltage output <= 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) +/- 1 % of full scale at 20 °C	
Repeat accuracy	+/- 0.2 % full scale at 20 °C +/- 0.6 % full scale at 60 °C	
Temperature coefficient	200 ppm/°C	
Clamping connection capacity	2 x 1.5 mm ² 1 x 2.5 mm ²	
Tightening torque	0.61.1 N.m	
Marking	CE	
Surge withstand	0.5 kV during 1.2/50 μs 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 = 20000 MTTFd = 21.6 years	
Net weight	0.12 kg	
Environment		
Standards	IEC 60947-1 IEC 60584-1	
Product certifications	UL GL CSA	
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= 10100 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 22 group 1 - class B CISPR 11	
Ambient air temperature for storage	-4085 °C	
Ambient air temperature for operation	050 °C mounting side by side 060 °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	119.0 g	
Package 1 Height	2.7 cm	
Package 1 width	8.2 cm	
Package 1 Length	8.5 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	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
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

Warrantv	18 months
warrantv	10 HOHUIS

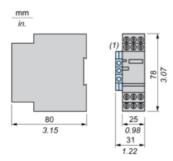
Product data sheet

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Dimensions Drawings

Analog Interface (Converter)

Dimensions



(1) Terminal block AB1TP435U or AB1RRNTP435U2

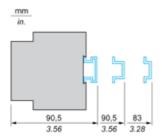
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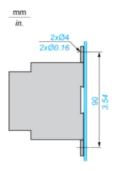
Mounting and Clearance

Mounting

Mounting on Rails AM1 *****



Panel Mounting



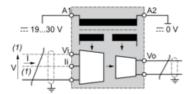
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Connections and Schema

Analog Interface: Voltage/Current Converter

Wiring Diagram



(1) Use 1 input 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.