

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

RMCL55BD

Main

Range of product	Harmony Analog	
Product or component type	Voltage/current converter	
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

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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	+/- 5 % of full scale at 20 °C (temporary performance degradation when subject to electromagnetic interference)	
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
Product weight	0.12 kg

Environment

Standards	IEC 60947-1	
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	IEG 00004-1	
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	6 kV (in contact) conforming to IEC 61000-4-2 level 3	
discharge	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	-4085 °C	
storage		
Ambient air temperature for	050 °C mounting side by side	
operation	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 Height	3.100 cm
Package 1 Width	8.300 cm
Package 1 Length	8.600 cm
Package 1 Weight	118.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	47
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.140 kg

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint		
Total lifecycle Carbon footprint	40	

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	A23b5c8f-6893-4fd3-af99-564158dacf76
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

Use Again

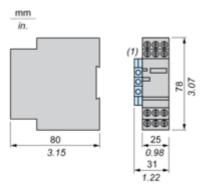
○ Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No

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Dimensions Drawings

Analog Interface (Converter)

Dimensions



(1) Terminal block AB1TP435U or AB1RRNTP435U2

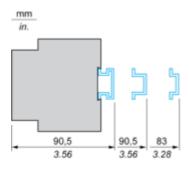
Product data sheet

RMCL55BD

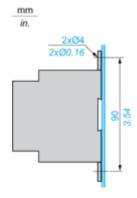
Mounting and Clearance

Mounting

Mounting on Rails AM1 *****



Panel Mounting

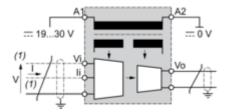


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Connections and Schema

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.

Technical Illustration

Dimensions

