## Product data sheet Characteristics

# RMCL55BD

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





#### Main

Wilding	
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

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 <sup>2</sup> 1 x 2.5 mm <sup>2</sup>	
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

Package 1 Weight	0.119 kg	
Package 1 Height	0.270 dm	
Package 1 width	0.820 dm	
Package 1 Length	0.850 dm	

### 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)
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

#### Contractual warranty

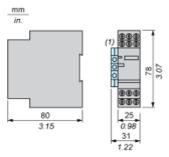
Warranty	18 months

# Product data sheet Dimensions Drawings

# RMCL55BD

#### Analog Interface (Converter)

#### Dimensions



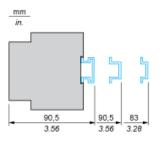
(1) Terminal block AB1TP435U or AB1RRNTP435U2

# Product data sheet Mounting and Clearance

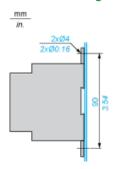
# RMCL55BD

#### Mounting

### Mounting on Rails AM1 \*\*\*\*\*



#### **Panel Mounting**

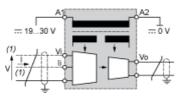


## Product data sheet Connections and Schema

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