Product data sheet
Characteristics

RMCV1UUBD
Voltage transducer, Harmony Analog, 22.5mm



Main

Range of product	Harmony Analog
Product or component type	Voltage transducer
Analogue input type	Voltage 0...500 V
Analogue output type	Current 0...20 mA <= 550 Ohm Current 4...20 mA <= 550 Ohm Voltage 0...10 V >= 10 kOhm Voltage 2...10 V >= 10 kOhm Voltage 0...5 V >= 10 kOhm Voltage 1...5 V >= 10 kOhm

Complementary

Protection type	Reverse polarity protection on power supply Overvoltage protection on output Short-circuit protection on output
[Us] rated supply voltage	24 V DC +30 %...-25 %, isolated
Current consumption	<= 50 mA for 24 V
Measurement error	+/- 0.2 % of full scale
Repeat accuracy	+/-0.06 %
Clamping connection capacity	20...12 AWG
Tightening torque	0.4…0.5 N.M 0.4…0.5 N.M
Marking	CULus DNV CE UKCA WEEE China RoHS
Surge withstand	1 KV during 1.2/50 µs conforming to IEC 61000-4-5
[Ui] rated insulation voltage	300 V 600 V
Fixing mode	Clip-on (35 mm DIN rail)
Safety reliability data	MTTFd = 316.5 years B10d = 292138
Net weight	0.10 Kg
Temperature coefficient	< 150 ppm/°C
Wire stripping length	8…9 Mm
Status LED	3 LEDs (green) PWR (Power Status) (Red) high signal level (Red) low signal level
Overvoltage category	II
Width	22.5 Mm
Height	107.5 Mm

Depth	113.6 Mm
Relative humidity	5…95 %

Environment

Electromagnetic compatibility	Fast transient bursts - test level: 1 kV criteria A (I/O) conforming to IEC 61000-4-4 Fast transient bursts - test level: 2 kV criteria A (power lines) conforming to IEC 61000-4-4 Radiated RF field immunity test - test level: 10 V/m, 80 MHz...1 GHz criteria A conforming to IEC 6 Radiated RF field immunity test - test level: 3 V/m, 1.4...6 GHz criteria A conforming to IEC 61000 Conducted radio-frequency immunity test - test level: 10 V, 0.15...80 MHz criteria A conforming to Magnetic field at power frequency - test level: 30 A/m criteria A conforming to IEC 61000-4-8
Product certifications	cULus[RETURN]DNV
IP degree of protection	IP20
Shock resistance	50 gn for 11 ms conforming to IEC 60068-2-27
Vibration resistance	5 gn (f= 10…150 Hz) conforming to IEC 60068-2-6
Resistance to electrostatic discharge	6 KV (in contact) conforming to IEC 61000-4-2 8 KV (in air) conforming to IEC 61000-4-2
Ambient air temperature for storage	-40…85 °C
Ambient air temperature for operation	-40…70 °C
Pollution degree	2 conforming to IEC 60664-1
Operating altitude	0...2000 m
Electromagnetic emission	Conducted emissions conforming to CISPR 11 Radiated emissions conforming to CISPR 11
Dielectric strength	5.4 KV AC between the inputs and the supply circuit 3 KV AC between the outputs and the supply circuit 5.4 KV AC between input and output

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.200 Cm
Package 1 Width	11.500 Cm
Package 1 Length	12.500 Cm
Package 1 Weight	120.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	25
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	3.444 Kg

Offer Sustainability

Recyclability potential, in %	62
Total lifecycle Carbon footprint	31 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	4.696304851035895
Carbon footprint of the manufacturing phase [A1 to A3]	5 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.24772669157832428
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0009126232522786244
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	25.474400697764647
Carbon footprint of the use phase [B2, B3, B4, B6]	25 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.1672254518300461
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	31
Packaging made with recycled cardboard	Yes

Packaging without single use plastic	Yes
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
PVC free	Yes
Silicone-free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised