

Product datasheet

Specifications



Easergy CL110 wireless environmental temperature and humidity sensor

ZBRTT1

EAN Code: 3606481808073

Main

Range of product	Harmony XB5R
Product or component type	Wireless transmitter
Device short name	XB5R
Transmission frequency	2400 MHz
Antenna type	Omnidirectional

Complementary

Max power consumption in W	60 mW
Number of channels	16
Modulation Technique	O-QPSK
Bandwidth	5 MHz
Antenna gain	0 dBi
CAD overall height	21 mm
CAD overall width	40 mm
CAD overall depth	40 mm
Net weight	0.034 kg
Measurement temperature	90 °C
Mechanical robustness	Free fall resistance 1000 mm conforming to IEC 60068-2-32
Standards	IEC 61010-1 UL 61010-1 IEEE 802.15.4
Radio agreement	ANATEL ARIB T66 FCC ICASA RSS SRRC
Communication port protocol	Zigbee green power at 2.4 GHz conforming to IEEE 802.15.4
Maximum sensing distance	100 m in free field 25 m transmitter in a plastic box type XAL D and receiver in a metal enclosure 10 m transmitter in box type XAL D, receiver in metal enclosure and use relay-antenna
Acquisition time	2 ms
Response time	< 2 ms
Fixing mode	Magnetic fixing
Mounting mode	Magnetic

Electrical composition code	PW1
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Environment

Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-40...70 °C
Relative humidity	10...95 % at -40...70 °C
IP degree of protection	IP54 conforming to IEC 60529
IK degree of protection	IK06 conforming to IEC 62262
Shock resistance	40 gn (duration = 6 ms) for 3 shocks conforming to IEC 60068-2-27 20 gn (duration = 16 ms) for 1000 shocks conforming to IEC 60068-2-27 10 gn (duration = 11 ms) for 3 shocks conforming to IEC 60068-2-27
Vibration resistance	2 gn (f= 5...200 Hz) conforming to IEC 60068-2-6 4 gn (f= 200...500 Hz) conforming to IEC 60068-2-6 1 gn (f= 10...2000 Hz) conforming to IEC 60068-2-64 1 gn (f= 5...500 Hz) conforming to IEC 60068-2-6
Electromagnetic compatibility	Susceptibility to electromagnetic fields - test level: 25 V/m (80 MHz...6 GHz) conforming to IEC 61000-4-3 Susceptibility to conducted disturbances - test level: 20 V (0.15...80 MHz) conforming to IEC 61000-4-6 Electromagnetic field immunity test - test level: 1000 A/m (pulsed) conforming to IEC 61000-4-8 Electromagnetic field immunity test - test level: 300 A/m (continuous) conforming to IEC 61000-4-8 Electromagnetic field immunity test - test level: 1000 A/m (pulsed) conforming to EN/IEC 61000-4-9 Damped oscillatory wave - test level: 3 kV conforming to IEC 61000-4-10 Damped oscillatory wave - test level: 2.5 kV conforming to EN/IEC 61000-4-18 Surge immunity test conforming to EN/IEC 61000-4-18 Surge immunity test (common mode) conforming to IEC 61000-4-5 Immunity to conducted RF disturbances - test level: 30 V (differential mode) conforming to IEC 61000-4-5 Immunity to conducted RF disturbances (continuous) conforming to IEC 61000-4-16 Immunity to conducted RF disturbances - test level: 300 V Immunity to conducted RF disturbances (short term) conforming to IEC 61000-4-16
Product certifications	CSA CCC UL GOST C-Tick BT 2006/95/EC
Directives	2004/108/EC - electromagnetic compatibility 1999/5/EC - R&TTE directive

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.5 cm
Package 1 Width	4.5 cm
Package 1 Length	9.0 cm
Package 1 Weight	62.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	100
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm

Package 2 Weight 6.569 kg

Logistical informations

Country of origin ID

Contractual warranty

Warranty 18 months

Environmental Data

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 1

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard No

Packaging without single use plastic No

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number 25b7f895-3732-43c8-9910-ef6005058640

REACH Regulation [REACH Declaration](#)

Use Again

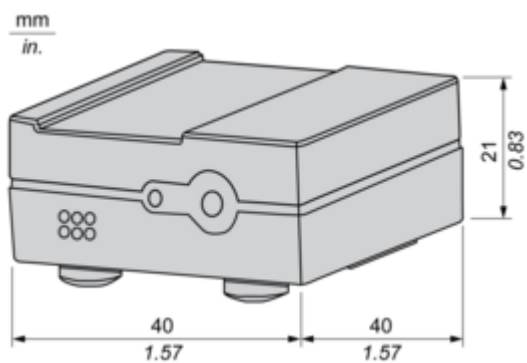
Repack and remanufacture

End of life manual availability [End of Life Information](#)

Take-back No

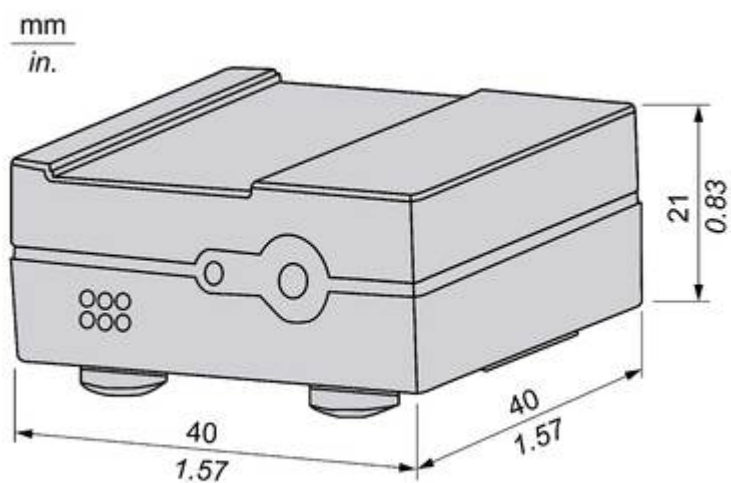
Dimensions Drawings

Dimensions



Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features

Features Harmony XB5



- 

Quick and easy assembly and disassembly
- 

Excellent mechanical connection with operator head
- 

Various types of connection: screw clamp, connector, Faston connector, spring terminal, or printed circuit board
- 

Large set of accessories to customize your panels
- 

Robustness to withstand harsh environments

Offer Marketing Illustration

Product benefits / Features

Technical Benefits

Harmony XB5

Conformity with IEC, UL, CSA, CCC EAC, and JIS standards, as well as CE marking and marine approvals

Up to IP66, 67, 69, 69K, and type 4X protection ratings

High vibration resistance with shake-proof terminal screws



Operating temperature from -40°C to 70°C

Shock protection level up to IK06

Secure switching of inductive or heavy DC loads directly – 100 000 operations at 10A, 24V dc

Image of product / Alternate images

Alternative





