

Product data sheet

Specifications



Roombox KNX 4 light Dim 4 shut 4 HVAC Multi application controller12 out

ORBK4D4S4HW

⚠ Discontinued on: Dec 31, 2015

⚠ Discontinued

Main

Range Of Product	Office Roombox
Device Short Name	Roombox KNX
Poles Description	1P + N
Number Of Protected Poles	1
Earthing System	TN TT
Network Type	AC
Network Frequency	50 Hz
Product Or Component Type	4 in 1 energy optimizer
Circuit Breaker Application	Distribution Control circuit Circuit protection
Lighting Actuator	Without
Dimming Actuator	4
Blind Actuator	4
Hvac Supply	4 with valve drive

Complementary

Number Of Outgoers	12
Rf Interface	Without
Input Type	Digital x4 inputs, for remote push-button for lighting and reset, 24 V DC Digital x4 inputs, for remote push-buttons for shutters, roller blinds and reset, 24 V DC Digital x4 inputs, for remote window contacts, 24 V DC Digital (multi-sensors) x4 inputs, for presence, 24 V DC Analog (multi-sensors) for light level signalling, 0...10 V DC
Control Signal Type	Maintained for digital inputs Impulse for digital inputs

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Communication Port Protocol	COM bus KNX for remote control according to ISO/IEC 14543, rated voltage: 24...30 V DC COM bus KNX for fault signalling according to ISO/IEC 14543, rated voltage: 24...30 V DC COM bus KNX for outgoers status according to ISO/IEC 14543, rated voltage: 24...30 V DC COM bus KNX for metering data according to ISO/IEC 14543, rated voltage: 24...30 V DC COM bus KNX for remote fault reset according to ISO/IEC 14543, rated voltage: 24...30 V DC Temporary Ethernet port for remote control according to IEEE 802.3 Temporary Ethernet port for fault signalling according to IEEE 802.3 Temporary Ethernet port for outgoers status according to IEEE 802.3 Temporary Ethernet port for metering data according to IEEE 802.3 Temporary Ethernet port for remote fault reset according to IEEE 802.3
[In] Rated Current	16 A
[Ue] Rated Operational Voltage	230 V AC 50 Hz, + 10 % - 15 %, between phase and neutral
Reset	Manual reset for factory reset, on front face Manual reset of overload for outgoer, on front face Manual reset of short-circuit for outgoer, on front face Manual reset of earth leakage for outgoer, on front face Remote reset of overload for outgoer, via COM bus Remote reset of short-circuit for outgoer, via COM bus Remote reset of earth leakage for outgoer, via COM bus Remote reset of overload for outgoer, digital input Remote reset of short-circuit for outgoer, digital input Remote reset of earth leakage for outgoer, digital input
Trip Unit Technology	Static switch for outgoers Thermal-magnetic
Curve Code	C
Magnetic Tripping Limit	5...10 x In
Breaking Capacity	4.5 kA Icn AC 50 Hz conforming to EN/IEC 60898 10 kA AC 50 Hz conforming to EMC/EN/IEC 61547
Limitation Class	3 conforming to EN 60898
Maximum Power	600 VA for 1 outgoer 3600 VA for overall power outgoers
Suitability For Isolation	Yes for incomer MCB
Residual Current Tripping Technology	Static switch for outgoers
Earth-Leakage Sensitivity	10 mA
Control Type	Rotary handle for incomer, color: white Remote control for outgoers Push-button for service pin, color: grey 4 push-buttons for zone expansion enabling/disabling, color: grey Push-button RESET REC for start/finish learning mode, color: grey ON/OFF push-buttons for outgoers, color: grey UP/DOWN push-buttons for outgoers, color: grey
Local Signalling	Green 12 LEDs for ON/OFF and UP/DOWN Green/red 1 LED for Com bus ON Green 1 LED for power ON Yellow 1 LED for metering 3200 kWh Orange 4 LEDs for zones expansion Red 12 LEDs for fault Green 1 LED for daily status
[Us] Rated Supply Voltage	230 V + 10 % - 15 % AC 50 Hz
Power Consumption In Va	30 VA
Type Of Measurement	Active energy
Accuracy Class	Class 1
Frequency Measurement Range	50 Hz
Technology Type	Digital 4 bytes

Display Type	DTP_ActiveEnergy_kWh 10 digit(s), number of decimal = 0
Maximum Value Measured	2147483647 kWh
Refresh Time	Configurable from 1 to 65535 s
Ip Degree Of Protection	IP20 when no connectors plug-in: conforming to EN 60529/IEC 144 IP30 when all connectors plug-in: conforming to EN 60529/IEC 144
Ik Degree Of Protection	IK07
Pollution Degree	3 conforming to EN 60730/IEC 1036
Relative Humidity	0...95 %
Ambient Air Temperature For Operation	0...50 °C
Ambient Air Temperature For Storage	-15...65 °C
Provision For Padlocking	Padlockable with padlock Ø 6 mm
Connections - Terminals	Wieland GST18 3 pins for main supply cable 2.5 mm² Wieland GST15 3, 4 or 5 pins for outgoers cable 1.5 mm² WAGO spring clamp terminals 2 pins for COM bus RJ45 connector 8 pins for temporary Ethernet RJ12 connector 6 pins for control inputs multi-sensors Wieland GST15 with mechanical key 3 pins for digital inputs
Material	Polycarbonate conforming to UL 94 V0 rated
Colour	White (RAL 9003)
Mounting Mode	Fixed
Mounting Support	DIN rail Surface mount
Height	280 mm
Width	345 mm
Depth	89 mm
Net Weight	2.5 kg
Product Compatibility	RF zigbee push-buttons Connectors ref ORBCx50 Sensor ref MTN6901-0000 Cables ref MTN6901-000x

Environment

Standards	EN/IEC 60669-1
-----------	----------------

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	9.5 cm
Package 1 Width	28.9 cm
Package 1 Length	35 cm
Package 1 Weight	2.6 kg

Contractual warranty

Warranty	18 months
----------	-----------