

# ORBK4D4S4HR

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



## 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	Circuit protection Control circuit Distribution
Lighting actuator	Without
Dimming actuator	4
Blind actuator	4
HVAC supply	4 with valve drive

## Complementary

Number of outgoers	12
RF interface	Zigbee
Input type	Digital, x4 inputs, for remote pushbutton for lighting and reset, 24 V DC Digital, x4 inputs, for remote pushbuttons 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	Impulse for digital inputs Maintained for digital inputs
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 RF Zigbee digital input for remote control according to IEEE 802.15.4, transmission rate: 2.4 GHz RF Zigbee digital input for remote fault reset according to IEEE 802.15.4, transmission rate: 2.4 GHz 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

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Reset	Manual reset of overload for outgoing, on front face Manual reset of short-circuit for outgoing, on front face Manual reset of earth leakage for outgoing, on front face Remote reset of overload for outgoing, via COM Bus Remote reset of short-circuit for outgoing, via COM Bus Remote reset of earth leakage for outgoing, via COM Bus Remote reset of overload for outgoing, digital input Remote reset of short-circuit for outgoing, digital input Remote reset of earth leakage for outgoing, digital input Manual reset for factory reset, on front face
Trip unit technology	Thermal-magnetic Static switch for outgoing
Curve code	C
Magnetic tripping limit	5...10 x I <sub>n</sub>
Breaking capacity	4.5 kA I <sub>cn</sub> according to EN/IEC 60898 AC 50 Hz 10 kA according to EMC/EN/IEC 61547 AC 50 Hz
Limitation class	Class 3 according to EN 60898
Maximum power	600 VA for 1 outgoing 3600 VA for overall power outgoing
Suitability for isolation	Yes for incoming MCB
Residual current tripping technology	Static switch for outgoing
Earth-leakage sensitivity	10 mA
Control type	Rotary handle for incoming, color: white ON/OFF pushbuttons for outgoing, color: grey UP/DOWN pushbuttons for outgoing, color: grey Remote control for outgoing Pushbutton for service pin, color: grey 4 pushbuttons for zone expansion enabling/disabling, color: grey Pushbutton reset rec for start/finish learning mode, color: grey
Local signalling	12 LEDs for On/Off and Up/Down, color: green 12 LEDs for fault on outgoing, color: red 1 LED for Com Bus ON, color: green/red 1 LED for power ON, color: green 1 LED for metering 3200 kWh, color: yellow 1 LED for DALI status, color: green 4 LEDs for zones expansion, color: orange
[Us] rated supply voltage	230 V + 10 % - 15 % AC 50 Hz
Power consumption in VA	30 VA max
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 according to EN 60529/IEC 144 IP30 when all connectors plug-in according to EN 60529/IEC 144
IK degree of protection	IK07
Pollution degree	3 according 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 mm <sup>2</sup> Wieland GST15 3, 4 or 5 pins for outgoing cable 1.5 mm <sup>2</sup> 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 according 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
Product weight	2.5 kg
Product compatibility	RF zigbee pushbuttons Sensor ref MTN6901-0000 Cables ref MTN6901-000x Connectors ref ORBCx50

## Environment

Standards	EN/IEC 60669-1
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