W-DALI Technical sheet

TECHNICAL DATA

	W-DALI NODE	W-DALI DIN RAIL
Power		
Voltage range	216-253VAC	12-24VDC / 24VAC +/-10%
Max power consumption	<1W*	<1W
Frequency	50Hz	50Hz
Current Consumption	<5mA	<100mA
Conductor cross section (stranded)	0.5-2.5mm^2 ▪	0.2-2.5mm^2 ▪
Conductor cross section (solid)	0.5-4mm^2 ▪	0.2-2.5mm^2 ▪
DALI		
DALI PSU guaranteed current	30mA	–
DALI PSU max current	40mA	–
Max number of DALI units on bus	10	–
Max DALI bus current consumtion	–	120mA
DALI start up time	–	<5s
Conductor cross section (stranded)	0.5-2.5mm^2 ▪	0.5-2.5mm^2 ▪
Conductor cross section (solid)	0.5-4mm^2 ▪	0.5-2.5mm^2 ▪
Environment		
Ambient temperature range	-20 - +55 °C	-20 - +55 °C
Storage temperature range	-30 - +80 °C	-30 - +80 °C
Humidity (non-condensing)	10-95%	10-95%
Mechanical		
Dimensions	46x46x21mm	36x93x59mm (excluding antenna)
Weight	21g	75g
Protection level	IP20	IP20

* with full DALI PSU load

WIRELESS

Frequency range of operation: 2402-2480MHz
Number of nodes: 128 nodes to one DIN rail
Number of hops: 8 hops in the meshing network
Range per hop: 500m line of sight (approximately 50-70m indoors with walls)
Output (ERP): Max 20 dBm

CONFORMANCE

RoHS: IEC 63000
Radio: EN 300 328
Electrical safety: IEC 61347-2-11
EMC: EN 301 489-1, EN 301 489-17

SAFETY

Only qualified electricians may perform installations with this product. Always follow local electrical code and regulations.

Insulation classification: Basic insulation between DALI terminal and all other terminals. W-DALI Node and DIN Rail should be mounted in an enclosure, cabinet or similar for full protection against accidental contact with live parts.

If W-DALI DIN RAIL is installed using an isolated AC or DC supply, this must be in accordance with IEC 61558-1 and applicable part 2 of IEC 61558.

Do not use the product if the product is damaged. Only use cables within the specified conductor sizes.

Wireless Without Worries

Christian Rott Ingenieurbüro
91154 Roth
+49 (0) 9171 8573512
www.en4y.de