

## Egain External Antenna

### DEVICE

The antenna enhances the capability of G3 or 913 and makes it possible to reach sensors as far as 500 meters from the antenna. The polarization is vertical and enhances the signal with up to 4dBd. You can think of it as a lighthouse beacon.

### FIELD OF USE

The antenna can be used on any markets within the EU and countries following radio standards within the EU such as Switzerland.

In the energy efficiency market (apartment and housing co-operations, older buildings, museums, historical buildings)

- Balancing radiator heating systems
- Optimization of controls of heating systems
- Management of delivered indoor comfort and climate
- Remote measurement in sensitive or difficult to reach places

### MAIN FUNCTIONS

- Enhances radio coverage of Egain products

### MOUNTING

- Mount outdoors in central area for best performance
- Place antenna unreachable from ground location approx. 3m above ground
- Use included wall mount material

### ELECTRICAL DATA

#### MODEL

CXL 900-3LW-NB/868 MHz

#### ANTENNA TYPE

Collinear, narrow-band

#### FREQUENCY

860 - 880 MHz

#### IMPEDANCE

Nom. 50 Ω

#### TYPE OF ANTENNA

Omnidirectional

#### POLARIZATION

Vertical

#### GAIN

6 dBi 4 dBd

#### HALF POWER BEAMWIDTH

23°

#### BANDWIDTH

20 MHz

#### SWR

≤ 1.5 @ 868 MHz

#### MAX. POWER

100 W

#### ANTISTATIC PROTECTION

All metal parts DC-grounded  
(Connector shows a DC-short)

#### HCM CODE

HCM000ND00, 015DE50

### MECHANICAL DATA

#### TEMP. RANGE

-30°C → +70°C

#### CONNECTOR

N-female

#### WIND SURFACE

Approx. 0.035 m<sup>2</sup> / 0.38 ft<sup>2</sup>

#### WIND LOAD

46 N @ 160 km/h / 46 N @ 100 mph.

#### COLOUR

White (RAL 9003)

#### MATERIALS

Shroud: Polyurethane-coated glass fibre  
Mounting bracket: Seawater resistant aluminium, epoxy-coated  
Clamps: Stainless steel

#### TOTAL HEIGHT

Approx. 1200 mm / 47.24 in.

#### DIA. TOP END

23 mm / 0.91 in.

#### DIA. BOTTOM END

23 mm / 0.91 in.

#### WEIGHT

Approx. 900 g / 1.98 lb.

#### MOUNTING

On 16 to 54 mm dia. mast tube/  
0.63 to 2.13 in. dia. mast tube

