

# ELMA

## TECHNICAL DATASHEET

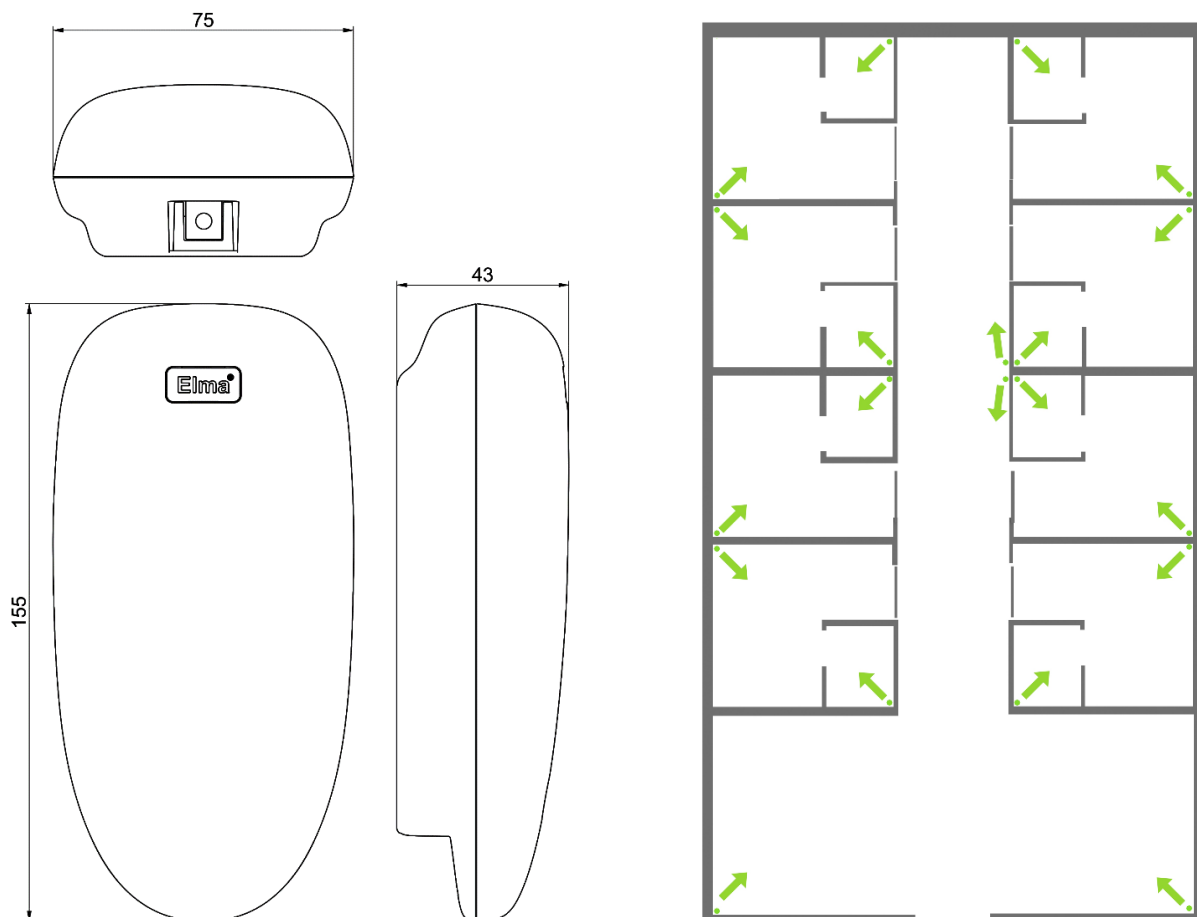
Elma Detector is a new innovative sensor based on the millimeter wave technology. It transmits radio signals in the millimeter wave range that are reflected from its surroundings. It analyses the reflected signals and calculates the distance and direction of moving objects within its field of view.

Elma is installed above the monitored area typically at the ceiling level. The device can detect and track motion with range up to 20 meters and 120° angle of view. The enclosure has been carefully designed to be very discreet and allow the passage of the signal without distortion or attenuation. The device can be powered with an external power supply or conveniently over the communications network with Power over Ethernet technology.



### FEATURES AND BENEFITS

- Tracks people with range up to 20 meters and 120° angle of view.
- Provides accurate detection and tracking even in low-visibility conditions, including complete darkness, thick fog, or smoke.
- Can be used in various applications for security, safety and tracking in health care, retail, infrastructure and marine applications.
- Respects the privacy of the people being monitored.



Typical Elma installation

Patented / Patent Pending

TECHNICAL SPECIFICATIONS	
Dimensions	155 x 75 x 43 mm
Installation bracket	Wall installation angles 0°, 15°, 30°. Bracket rotation 0° - 180°
Power supply	IEEE 802.3af-2003 (PoE)
Power consumption	Max 5W
Connectivity	RJ-45 connector for 100BASE-TX Ethernet 2.4 GHz Wi-Fi (802.11b/g/n) Bluetooth® 5 (LE)
Frequency	60 – 64 GHz
Output power	+10 dBm
Angle of view	120° horizontal, 120° vertical
Detection range	Up to 20 meters
Fall detection range	Up to 10 meters depending on the installation environment
Compliances	Directive 2014/53/EU
Applied standards	EN62311, EN62368, EN301489-1, EN301489-3, EN301489-17 EN305550-1, EN305550-2

Information in this document is provided solely in connection with MariCare products. MariCare reserves the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice. MariCare assumes no responsibility for errors or omissions in these materials or the information contained herein. No license, whether express, implied, by estoppel or otherwise, is granted to any intellectual property rights by this document. MariCare assumes no liability for any materials, products or information provided hereunder, including the sale, distribution, reproduction or use of MariCare products, information or materials, except as may be provided in MariCare Oy General Terms and Conditions of Sale.