



# Lighting: Antenna Barrier (SMA Connector), ANTE Series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

## Application

Flameproof antenna barrier is designed to be used directly with flameproof equipments.

The component consists of 2 endings, a SMA female connector for external antenna connection and a SMA male connector for internal network control unit connection.

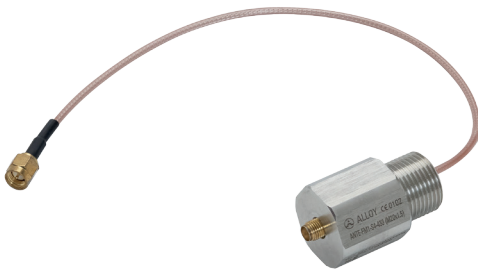
The antenna barrier design allows radio control activities in equipments. It is a highly flexible and cost effective solution to hazardous area radio control deployment.

## Specification

Housing material : Stainless steel or Brass  
 Thread seal : Nylon (PA6)  
 (For metric threads only)

## Antenna Specification

- Frequency range; 433MHz.
- Bandwidth; CF ± 5MHz.
- Polarization; Linear
- Gain; 2dBi (Zenith)
- Voltage Standing Wave Ratio (VSWR); <2.5
- Impedance; 50 Ω
- Compatible with devices; LED network control



## LED Network Control

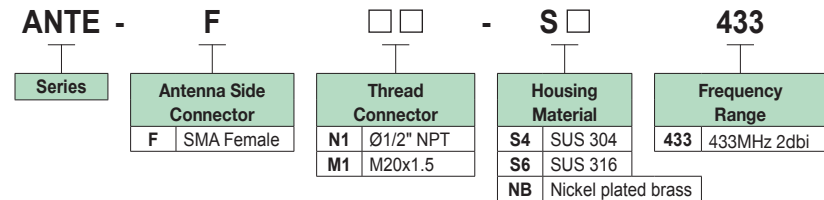
- Digital address profile memory data store inside
- Operate environment -20°C to 80°C degree
- Insulate circuit between communication and power
- DC CC+CV driver input 12-42V Max 7A ( 240W LED support)
- 12-42V.dc output to support LED
- Repeat signal function built-in
- TX/RX RPT full function 434 MHz (Non license Frequency)
- LED Dimming 0-100% with all level flicker free
- Linear dimming and superb energy saving
- Secure by Wireless ID and Unique Record Number
- 60 Groups setting and 65,000 Nodes support
- 200 Meters wide network TX/RX control 4km with repeater
- IOT ready



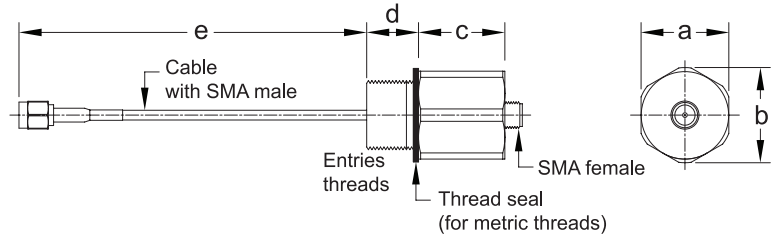
## Technical Data

<b>Hazardous Area</b>	<b>Gas</b>	<b>Dust</b>
<b>Zones</b>	<b>1 &amp; 2</b>	<b>21 &amp; 22</b>
<b>Equipment Group/Category</b>	<b>II 2G</b>	<b>II 2D</b>
<b>Symbol of Protection</b>	<b>Ex db IIC Gb</b>	<b>Ex tb IIIC Db IP66</b>
<b>Conformity to Standards</b>	EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014 IEC 60079-0:2017, IEC 60079-1:2014, IEC 60079-31:2013	
<b>Service Temperature</b>	-40°C to +85°C	
<b>Index of Protection</b>	IP66	
<b>Entries</b>	Metric or NPT threads	

## Catalogue Number Logic

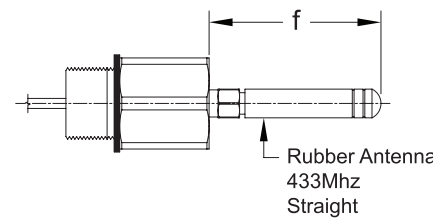


## Dimension

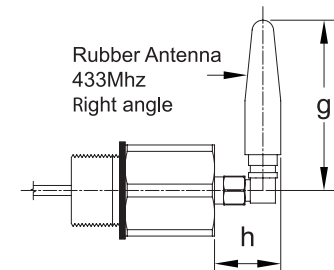


Cat. No.	Entries Threads	Dimension in mm.							
		a	b	c	d	e	f	g	h
ANTE-FN1-S4-433	Ø1/2" NPT	22.0	25.4	25.0	19.9	267.0	50.0	47.0	18.0
ANTE-FN1-S6-433									
ANTE-FN1-NB-433									
ANTE-FM1-S4-433	M20x1.5	25.4	27.5	25.0	15.0	272.0	50.0	47.0	18.0
ANTE-FM1-S6-433									
ANTE-FM1-NB-433									

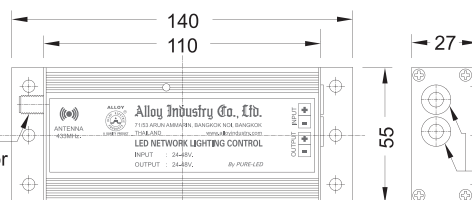
Antenna - Straight



Antenna - Right angle



LED network control (installed inside the fixture)



Power cable H07V2-K -40°C to 105°C