

Lighting: Antenna Barrier (SMA Connector), ANTE Series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Application

The flameproof antenna barrier is designed for direct use with flameproof equipment.

The component consists of two connectors: an SMA female connector for external antenna connection and an SMA male connector for internal network control unit connection.

The antenna barrier design enables radio control operations in equipment, providing a highly flexible and cost-effective solution for hazardous area radio control deployment.

Specification

- Housing material : Stainless steel or Brass
(optional nickel-plated brass)
- Thread seal : Nylon (PA6)
(for metric threads only)

Antenna Specification

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

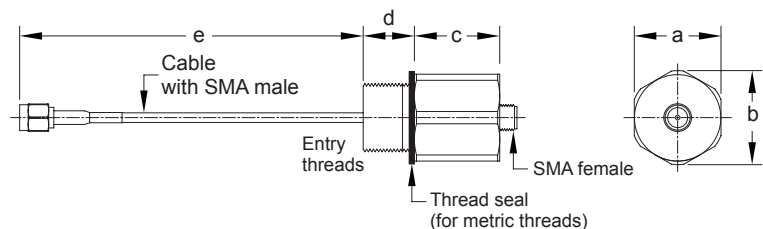
Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	21 & 22
Equipment Group/Category	II 2G	II 2D
Symbol of Protection	Ex db IIC T6 Gb	Ex tb IIIC T85°C Db
Certificate	KDB 22 ATEX 0025U IECEX KDB 22.0007U	
Conformity to Standards	EN IEC 60079-0, EN 60079-1, EN IEC 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-31	
Ambient Temperature	-40°C to +85°C	
Index of Protection	IP66	
Entry Threads	Metric or NPT threads	

Catalogue Number Logic

Series	Antenna side connector	Thread connector	Housing material	Frequency range
ANTE -	F	■ ■	- S ■	433
F	SMA female	N1 1/2" NPT M1 M20x1.5	S4 SS 304 S6 SS 316 NB Nickel plated brass	433 433 MHz, 2 dBi

Dimensions (mm)

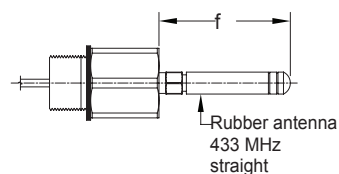


Cat. No.	Entry threads	Dimensions in mm							
		a	b	c	d	e	f	g	h
ANTE -FN1 -S4 -433	1/2" NPT	22.0	25.4	25.0	19.9	267.0	50.0	47.0	18.0
ANTE -FN1 -S6 -433									
ANTE -FN1 -NB -433									
ANTE -FM1 -S4 -433	M20x1.5	25.4	27.5	25.0	15.0	272.0	50.0	47.0	18.0
ANTE -FM1 -S6 -433									
ANTE -FM1 -NB -433									

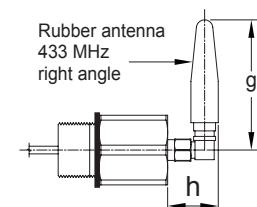
LED Network Control

- Digital address profile memory data store inside
- Isolate circuit between communication and power
- DC CC+CV driver input 12-42 V Max 7 A (240 W LED support)
- 12-42 V 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 4 km with repeater
- IOT ready

Antenna - Straight



Antenna - Right angle



LED network control (installed inside the fixture)

