



Introduction

The patented explosion-proof antenna coupler facilitates the installation of ordinary passive antennas in potentially explosive areas. An internal blocking circuit prevents potentially dangerous energy from reaching the antenna in the event of a fault in the radio system, modem or access point. It also allows the disconnection of the antenna in hazardous area. Mounted on our Ex-e enclosures, our Ex-d or Ex-e enclosures are the ideal solution for all your radio systems in the ATEX zone.

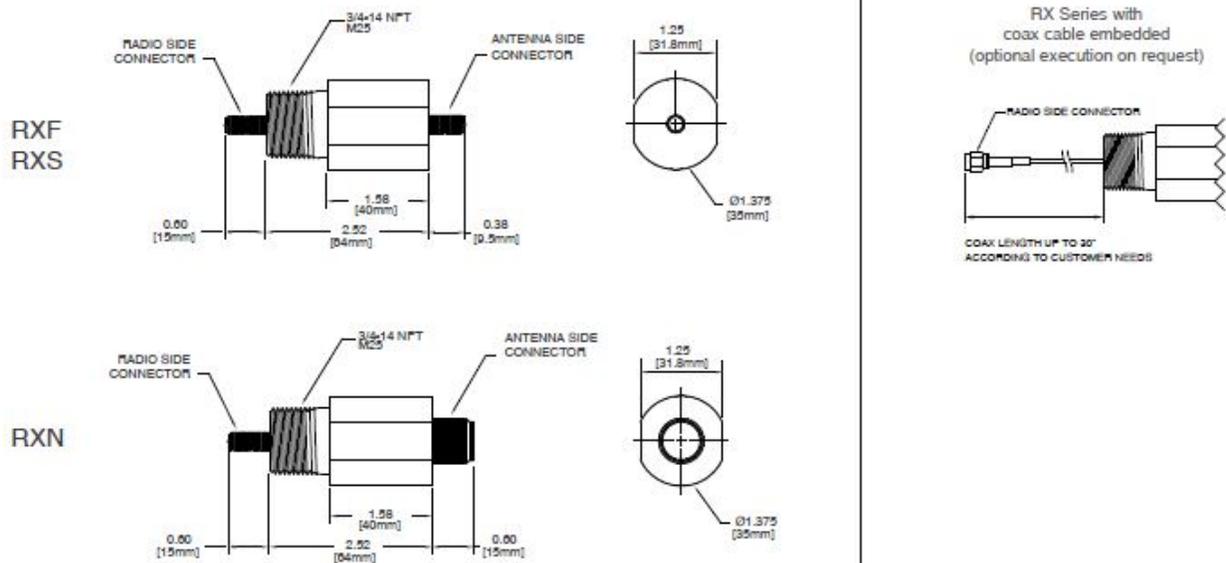
Certification

The coupler has an electronic circuit which blocks the DC voltage while letting the RF voltage between 25 and 6000MHz. It can therefore be used to protect the hazardous area against problems related to the power supplies of built-in radio systems. It allows to connect and disconnect an antenna, even in charge.

SPECIFICATIONS

ATEX/IECEX/ANZEx apparatus certification	 I M2 (M1) Ex db mb [ia Ma] I Mb II 2 (1) G Ex db mb [ia Ga] IIA/IIB/IIC T5/T6 Gb II 2 (1) D Ex tb mb [ia Da] IIIC T100°C/T80°C Db									
ATEX certificate nr	EXA 15 ATEX 0042									
IECEX certificate nr	IECEX EXA 15 0005									
cULus certification	Class I, Division 1 & 2, Group A,B,C,D and Class II, Division 1 & 2, Group F&G (UL File E492911)									
Maximum Fault Voltage	250VDC, 250VAC 50-60Hz									
Maximum Antenna Power Output (EIRP)	UL/CSA Group		D, F & G			C		A & B		
	IECE Gas Group		I and III			IIA		IIB		IIC
	Max Threshold Power Limit		6W			6W		3.5W		2W
<i>For more details about RF power input and output (EIRP) allowed please consult installation and operation manual.</i>										
Approximate Insertion Loss (dB)	Frequency	100 MHz	500 MHz	1.4 GHz	1.7 GHz	2.5 GHz	3.9 GHz	4.9 GHz	5.4 GHz	6.0 GHz
	J version	1.0	0.4	0.4	0.5	0.8	-	-	-	-
	R version	-	1.3	0.6	0.6	0.6	1.2	1.2	0.8	2.0
Approximate Weight	0.32 kg (70.6 lb)									
Minimum Dielectric Strength	1500V									
Impedance	50 Ω									
Housing Material	300 series stainless steel									
Ambient Temperature Range	cULus: -40°C (-40°F) +75°C (+167°F) ATEX/IECEX: -40°C (-40°F) +85°C (+185°F)									

DIMENSIONS



NOMENCLATURE

- a Antenna Side Connector**
 F RP-SMA Female
 N N Female
 S SMA Female
- b Thread Connection**
 3 3/4" NPT
 M M25x1.5 (IECEX and ATEX only)
- c Housing Material**
 S AISI 303
 L AISI 316L
- dd Radio Side Connector**
 02 RP-SMA Female (RXF and RXN only)
 04 SMA Female (RXS only)
- ee Coax cable length radio side (optional on request)**
 00 no cable (with connector on body)

RX	<u>N</u>	<u>3</u>	<u>S</u>	<u>02</u>	<u>00</u>	<u>J</u>	<u>X0</u>
	a	b	c	dd	ee	f	gg

- f Version (frequency range)**
 J optimized from 100 MHz to 1.4 GHz
 R optimized from 500 MHz to 3.9 GHz and from 4.6 GHz to 6 GHz
 L optimized from 3.9 GHz to 4.6 GHz

- gg Approval ⁽¹⁾**
 N0 cULus apparatus marking
 X0 IECEX and ATEX apparatus marking
 XN cULus, IECEX and ATEX apparatus marking (dual marking)

⁽¹⁾ Consult factory for ANZEX certificate