B00003-00

Antenna couplers

RX SERIES

Solexy's patented (7,057,577) Explosion-Proof Antenna Coupler permits the installation of non-Ex certified antenna in hazardous areas.
This coupler is designed to be used directly with listed explosion proof housings or conduit fittings.

An integrated blocking circuit prevents hazardous energy reaching the antenna if a radio, modem or access point failure occures. It also allows for antenna removal in hazardous areas.

The coupler's robust design allows for connection to practically any radio and antenna. It is a highly flexible and cost effective solution to hazardous area radio system deployment. The coupler can also be used as a cable bulkhead.

FEATURES

SHORT CIRCUIT PROTECTION
Includes integrated blocking circuitry.

ENVIRONMENTAL PROTECTION
Fitting 300 series stainless steel construction and integral potting protects electronics from corrosive environments.

CERTIFICATION
The RX Series is certified Atex, IECEx and UL as an apparatus, and can be installed per the conditions of acceptability, without further assessment. Available on request ANZEx certified unit for Australian/New Zeland market where IECEx scheme is not recognized.

FLEXIBILITY
Fitting is approved for hazardous locations and can be installed with a simple wrench.

NO SEALING FITTING REQUIRED
Permits a wide variety of passive antennas to be installed in hazardous areas. Antennas may be removed and/or installed with power on. Perfect for a cable bulkhead connection.

NOMENCLATURE

RX	N	3	S	02	00	J	X0
	a	b	c	dd	ee	f	gg

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)

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

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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

For more details about RF power input and output (EIRP) allowed please consult installation and operation manual.

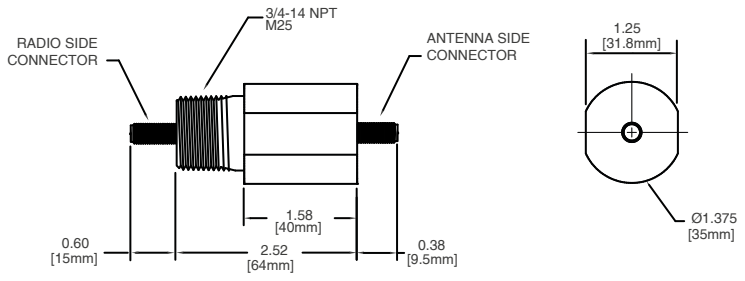
Approximate Insertion Loss (dB)

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

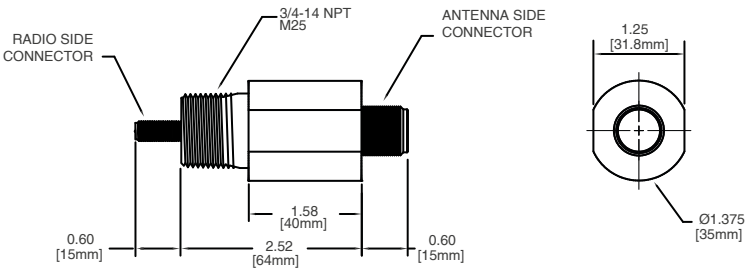
Approximate Weight	0.32 kg (70.6 lb)
Minimum Dieletric Strength	1500V
Impedance	50 Ω
Housing Material	300 series stainless steel
Ambient Temperature Range	cULus: -40°C (-40°F) +75°C (+167°F) ATEX/IECEx: -40°C (-40°F) +85°C (+185°F)

DIMENSIONAL DRAWINGS

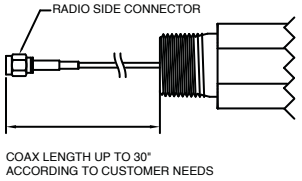
RXF
RXS



RXN



RX Series with
coax cable embedded
(optional execution on request)



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