

# JERI Series

ATEX Antenna safety isolator



I M2(M1) Ex db mb [ia Ma] I Mb  
 II 2(1) G Ex db mb [ia Ga] IIC T\* Gb  
 II 2(1) D Ex mb tb [ia Da] IIIC T\*\* Db



Ex db mb [ia Ma] I Mb[Ex ia Ga] IIC  
 Ex db mb [ia Ga] IIC T\* Gb  
 Ex mb tb [ia Da] IIIC T\*\* Db



## Specifications

Model		JERI						
<b>DESCRIPTION</b>								
JERI series Antenna safety isolator can be installed inside or outside Explosion-Proof enclosure in a hazardous area, which is designed to provide galvanically-isolated Radio-Frequency(RF) signal transfer from a RF transmitter located in the non-hazardous area to an antenna located in the hazardous area.								
It provides an intrinsically safe output and features a safety Isolator which blocks any unsafe energy in the event of a radio transmitter / receiver fault. It is available with a surge protection option.								
<b>ELECTRICAL DATA</b>								
Impedance:	50 Ω							
Frequency Range:	DC-6GHz							
Typical Insertion Loss:	Max. 0.9 dB (DC-3GHz); Max. 1.2 dB (3-6GHz)							
<b>MATERIAL DATA</b>								
Enclosure material:	Copper/ Stainless steel 304/ Stainless steel 316L							
<b>MECHANICAL DATA</b>								
Input/output connections:	Please see the ORDERING INFORMATION for detailed							
Weight:	Approximately 380g (Final data is mainly based on customer requirements)							
<b>ENVIRONMENTAL DATA</b>								
Temperature Range:	-40 °C to 70 °C / 85°C							
Relative Humidity:	0 to 95 %, non condensing							
RoHS:	Compliant							
<b>MARKING</b>								
Ex I M2(M1) Ex db mb [ia Ma] I Mb	(Ta = Group I: -40°C to +70°C)							
Ex II 2(1) G Ex db mb [ia Ga] IIC T* Gb	(Ta = T6: -40°C to +70°C/ Ta = T5: -40°C to +85°C)							
Ex II 2(1) D Ex mb tb [ia Da] IIIC T** Db	(Ta = T80°C: -40°C to +70°C/ Ta = T95°C: -40°C to +85°C)							
<b>CERTIFICATION</b>								
ATEX Nr.:	CSANe 22ATEX1114X							
Standards:	EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-11:2012, EN 60079-18:2015/A1:2017, EN 60079-31:2014							
IECEx Nr.:	IECEx CSAE 22.0056X							
Standards:	IEC 60079-0:2017, IEC 60079-1:2014-06, IEC 60079-11:2011, IEC 60079-18:2017, IEC 60079-31:2013							
<b>ORDERING INFORMATION</b>								
Model Designation of JERI series Explosion-proof Antenna safety isolator is as follows:								
JERI	X	X	X	X	X	XX	-	X
	1	2	3	4	5	6	-	7
<b>1 Enclosure Material</b>								
C	Copper							
S	AISI 304							
L	AISI 316L							
<b>2 Antenna Side Connector</b>								
N	N Female							
RN	RP-N Female							
S	SMA Female							
RS	RP-SMA Female							
T	TNC Female							
RT	RP-TNC Female							
B	BNC Female							
RB	RP-BNC Female							
<b>3 Radio Side Connector</b>								
RS	RP-SMA Female							
S	SMA Female							
<b>4 Version(frequency range)</b>								
A	0.2GHz-6GHz							
B	0.4GHz-6GHz							
C	0.8GHz-6GHz							
D	1GHz-6GHz							
E	1.2GHz-6GHz							
F	Other frequency ranges							
<b>5 Lightning Protection</b>								
1	Yes							
O	No							
<b>6 Standard Reference</b>								
AI	IECEx and ATEX apparatus marking							
<b>7 Special Execution</b>								
Up to 6 digits for special execution in terms of marking, labeling, instruction, packaging, etc.								

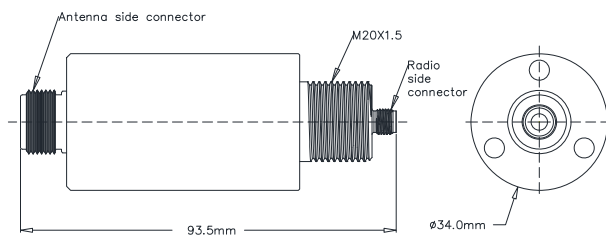
## Features

- ATEX Zone 1, 21, 2, 22 and M1 mining certified.
- IECEx Zone 1, 21, 2, 22 and M1 mining certified.
- It permits the installation of non-Ex certified antenna in hazardous areas.
- Provides an intrinsically safe output and features a barrier circuit which blocks power voltage in the event of a radio transmitter/receiver fault.
- Permits a wide variety of passive antennas to be installed in hazardous areas. Antennas may be removed and/or installed with power on.
- It is available with a surge protection option.
- Easy antenna installation with SMA/ N/ TNC/ BNC connectors.

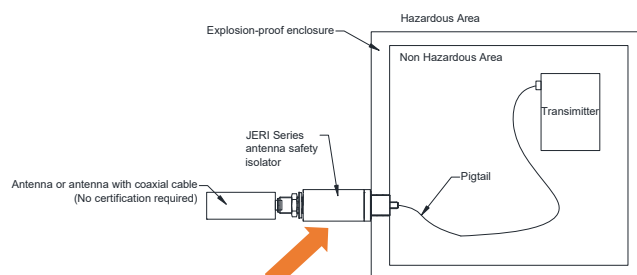
APPLICATIONS	FEATURES	BENEFITS
Oil and Gas Petrochemical Mining Manufacturing	High RF performance Wide FQ band Small, light and Compact Rich connector types	Save space and money Increase flexibility Reduce downtime Easy antenna installation

## Dimensions

Unit: mm



## Typical Application



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