

JIRI Series

ATEX RF Safety Barrier - Explosion Proof RF Isolator inside enclosure

I (M1) [Ex ia Ma] I
 II (1) G [Ex ia Ga] IIC
 II (1) D [Ex ia Da] IIIC

IEC [Ex ia Ma] I
 [Ex ia Ga] IIC
 [Ex ia Da] IIIC



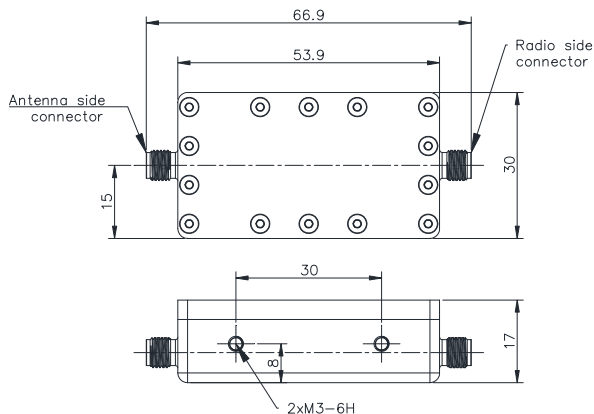
Features

- ATEX Zone 0, 20, 1, 21, 2, 22 and M1 mining certified.
- IECEx Zone 0, 20, 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.
- Fully compatible with JWRC series connector transits.
- Easy to install with SMA/ N/ TNC/ BNC connectors.

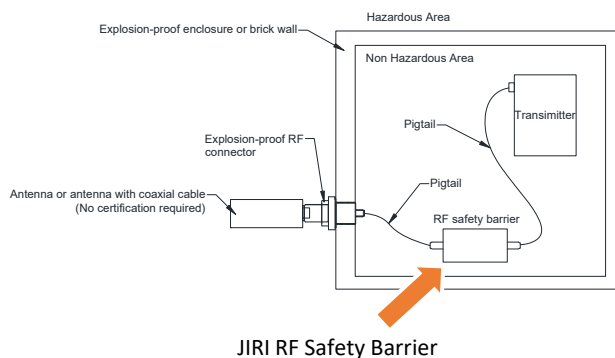
APPLICATIONS	FEATURES	BENEFITS
Oil and Gas	High RF performance	Save time and money
Petrochemical	Wide FQ band	Increase flexibility
Mining	Small, light and Compact	Reduce downtime
Manufacturing	Rich connector types	Easy antenna installation

Dimensions

Unit: mm



Typical Application



Specifications

Model	JIRI								
DESCRIPTION									
JIRI series RF Safety Barrier is an associated apparatus for installation in a non-hazardous area only, 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 barrier which blocks any unsafe energy in the event of a radio transmitter / receiver fault. It is available with a surge protection option.									
ELECTRICAL DATA									
Impedance:	50 Ω								
Frequency Range:	DC-6GHz								
Typical Insertion Loss:	Max. 0.5 dB (DC-3GHz); Max. 1.0 dB (3-6GHz)								
MATERIAL DATA									
Enclosure material:	Copper/ Aluminium/ Stainless steel 304/ Stainless steel 316L								
MECHANICAL DATA									
Input/output connections:	Please see the ORDERING INFORMATION for detailed								
Weight:	Approximately 190g (Final data is mainly based on customer requirements)								
ENVIRONMENTAL DATA									
Temperature Range:	-40 °C to 80 °C								
Relative Humidity:	0 to 95 %, non condensing								
RoHS:	Compliant								
MARKING									
I (M1) [Ex ia Ma] I (Ta = -40°C to +80°C) II (1) G [Ex ia Ga] IIC (Ta = -40°C to +80°C) III (1) D [Ex ia Da] IIIC (Ta = -40°C to +80°C)									
CERTIFICATION									
ATEX Nr.:	CSANe 21ATEX2097X								
Standards:	EN IEC 60079-0:2018, EN 60079-11:2012								
IECEx Nr.:	IECEx SIR 21.0023X								
Standards:	IEC 60079-0:2017, IEC 60079-11:2011								
ORDERING INFORMATION									
Model Designation of JIRI series Explosion-proof RF Safety Barrier is as follows:									
JIRI	X	X	X	X	X	X	-	X	
	1	2	3	4	5	6	-	7	
1 Enclosure Material									
C	Copper								
S	AlSI 304								
L	AlSI 316L								
A	Aluminium								
2 Antenna Side Connector									
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								
3 Radio Side Connector									
N / NM	N Female / N male								
RN / RNM	RP-N Female / RP-N male								
S / SM	SMA Female / SMA male								
RS / RSM	RP-SMA Female / RP-SMA male								
T / TM	TNC Female / TNC male								
RT / RTM	RP-TNC Female / RP-TNC male								
B / BM	BNC Female / BNC male								
RB / RBM	RP-BNC Female / RP-BNC male								
4 Version(frequency range)									
A	0.2GHz-6GHz								
B	0.4GHz-6GHz								
C	0.8GHz-6GHz								
D	1GHz-6GHz								
E	1.2GHz-6GHz								
F	Other frequency ranges								
5 Lightning Protection									
1	Yes								
0	No								
6 Standard Reference									
AI	IECEx and ATEX apparatus marking								
7 Special Execution									
		Up to 6 digits for special execution in terms of marking, labeling, instruction, packaging, etc.							

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