

Antenna barriers

M SERIES



Solexy's M series is a multichannel intrinsically safe barrier for RF signals (Pat. Pending). The M series is designed for installation in safe, not classified, area in combination with antennas installed in hazardous location.

An integrated blocking circuit prevents hazardous energy reaching the antenna if a radio, modem or access point failure occurs. It also allows for antenna removal in hazardous areas and the use of standard coax cable to remote mount them.

The antenna barrier's compact design reduce the space required inside the enclosure and can be matched with practically any radio and antenna. It is a highly flexible and cost effective solution for hazardous area radio system deployment.



FEATURES

- ✓ **SHORT CIRCUIT PROTECTION**
Includes integrated blocking circuitry.
- ✓ **MULTIPLE CHANNELS, ONE DEVICE**
Standard layout with 4 barriers, available on request for up to 7 different antenna connections into one single compact device.
- ✓ **CERTIFICATION**
The M Series is certified Atex, IECEx, INMETRO, Japan and for USA&Canada as an apparatus, and can be installed per the conditions of acceptability, without further assessment.
North America approval (USA&Canada) includes class & divisions and zones.
IECEx certification is issued from an Australian notified body therefore M series can be installed in Queensland mines.
- ✓ **FLEXIBILITY**
Permits a wide variety of passive antennas to be installed in hazardous area. Antennas may be removed and/or installed with power on.
- ✓ **EXTENDED FREQUENCY RANGE**
The M series covers a wide range of frequencies with only one version, starting from 300 MHz going up to 9 GHz with nearly a flat loss curve.
- ✓ **MOUNTING**
Device available with wall mount design as standard and DIN rail mount on request.

NOMENCLATURE

- a Antenna Side Connector
F RP-SMA Female
S SMA Female
N N Female
- b Enclosure
P Wall mounting layout
V Din Rail mounting
- cc Radio Side Connector
02 RP-SMA Female (M4F only)
04 SMA Female (M4S only)


- M 4 F 0 P 02 00 H XN
 a b cc d ee
- d Version (frequency range)
H optimized from 300 MHz to 9 GHz
***** For specific range for particular applications contact us
- ee Approval
NO USA&Canada apparatus (Class&Divisions and Zones)
X0 IECEx and ATEX apparatus
XN IECEx, ATEX, USA&Canada apparatus
B0 INMETRO
XJ IECEx and Japan



SPECIFICATIONS

ATEX certification

nr. TÜV CY 18 ATEX
0206158 X

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

Standard Ref.

EN 60079-0, EN 60079-11

IECEx certification

nr. IECEx MSC 19.0001X

[Ex ia Ma] I
[Ex ia Ga] IIA/IIB/IIC
[Ex ia Da] IIIC

Standard Ref.

IEC 60079-0, IEC 60079-11

USA & Canada certification

cQPSus LR1504-3

Associated Apparatus for installation in non-hazardous locations
Class I, Zone 1, [AEx ia Ga] IIA/IIB/IIC
Zone 21, [AEx ia Da] IIIC
[Ex ia Ga] IIA/IIB/IIC
[Ex ia Da] IIIC
[Ex ia Ga] CI I, Div 1, Groups ABCD
[Ex ia Da] CI II, Div 1, Groups EFG

Standard Ref.

CAN/CSA C22.2 No. 60079-0 UL 60079-0
CAN/CSA C22.2 No. 60079-11 UL 60079-11
CAN/CSA C22.2 No. 60950-1 UL 60950-1
UL 508

Maximum Fault Voltage

250VDC, 250VAC 50-60Hz

Typical Insertion Loss @ 20°C (dB)

Frequency	433 MHz	900 MHz	1.9 GHz	2.4 GHz	3 GHz	3.5 GHz	4.6 GHz	5.8 GHz	6 GHz	7 GHz	8 GHz	9 GHz
H version	-1.2	-0.8	-0.5	-0.4	-0.9	-1	-0.5	-1.1	-0.9	-1.1	-1.7	-2.8

Approximate Weight

0.25kg (55.2 lb)

Impedance

50 Ω

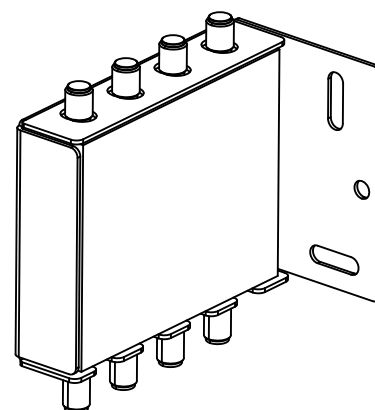
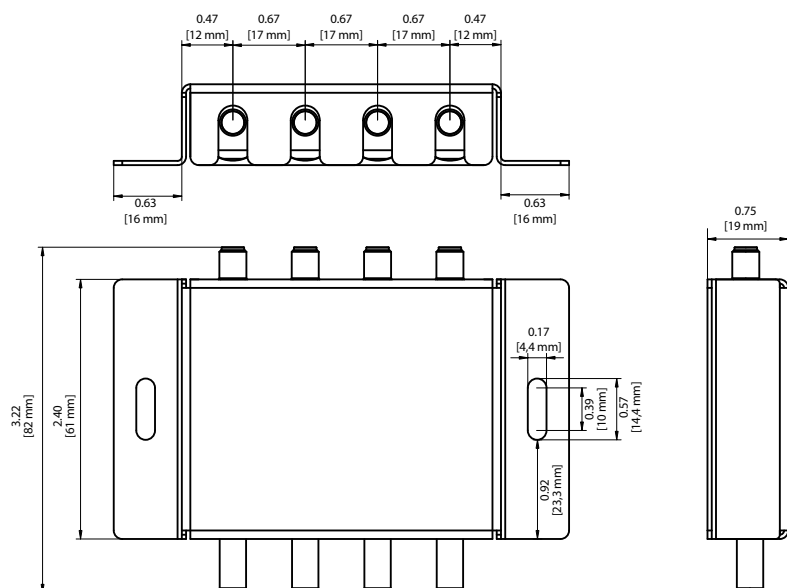
Max RF Input

7W (38.4 dBm)

Ambient Temperature Range

-40°C (-40°F) to +85°C (+185°F)

DIMENSIONAL DRAWINGS [inches]



Execution for DIN rail available on request