



EXPLOSION PROOF RF JUNCTION BOX

Solexy's Explosion proof RF junction boxes are specifically designed to allow a radio frequency coax cable junction/extension in hazardous location. There are many installations in Radio Frequency where you are going from a non-rated area to a hazardous area. With the Solexy HWA and HWS series RF Junction boxes there is now a solution to this type of installation.

With our RX series Antenna connection and the HWA/HWS series junction box an hazardous area field connection can now be made. Utilizing the RX antenna coupler the antenna is not required to be Haz Loc or Ex rated.

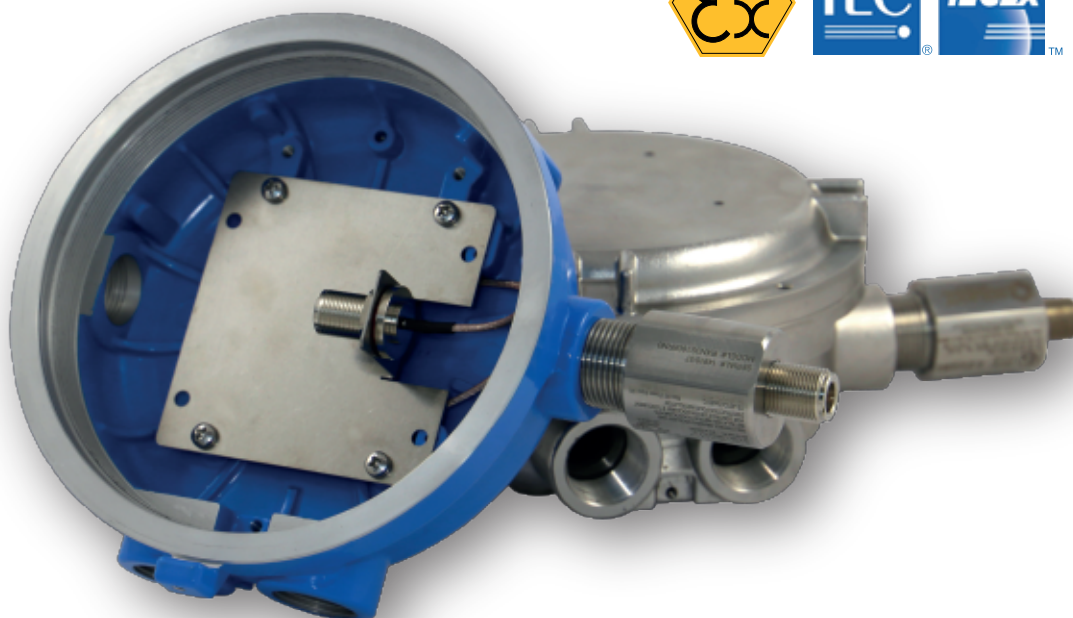
This simple solution is available with many options with coax connections and Antennas or as a cable connection to an antenna mounted on a mast.

Solexy's Explosion proof RF junction boxes are available in two configurations, the HWA series is a more cost effective option that is manufactured from corrosion resistant low copper aluminum. The HWA series is powder coated to prevent corrosion in harsher outdoor environments. The HWS series is manufactured in 316 Series Stainless Steel (CF8M).

This box is built for the toughest environments when nothing else but Stainless will do.

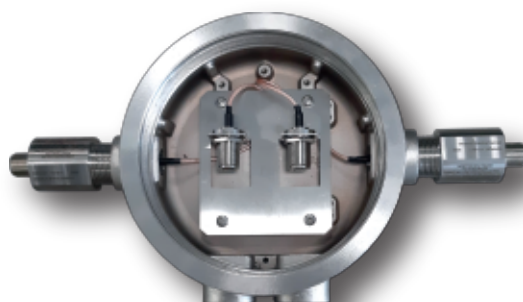
FEATURES

- ✓ **HEAVY DUTY CONSTRUCTION**
Explosion proof ATEX, IECEx and North America certified enclosure made in aluminum (HWA series) or stainless steel (HWS series)
- ✓ **WEATHER PROOF**
IP66 / IP68
- ✓ **CABLE ENTRIES**
M25x1,5 or 3/4" npt-f
- ✓ **TEMPERATURE RANGE**
-40°C to +80°C



■ DUAL ANTENNA LAYOUT

For the transmission of 2 antenna output



AVAILABLE ACCESSORIES

MOUNTING BRACKET: KM-01: mounting kit for 2" pipe
(see dedicated data sheet) KM-02: universal mounting kit

APPROVALS

ATEX & IECEx CERTIFIED



I M2 (M1) Ex db mb [ia Ma] I Mb
II 2(1)G Ex db mb [ia Ga] IIA/IIB/IIC T6...T5 Gb
II 2(1)D Ex mb tb [ia Da] IIIC T80°C...T100°C Db

Atex certificate nr. FIDI 20 ATEX 0014 and IECEx certificate nr. IECEx EXA 14.0001

USA & CANADA CERTIFIED

ENCLOSURE

Class I, Division 1, Groups B, C and D T4
Class II, Division 1, Groups E, F and G T4
Class I, Zone 1, Groups IIB+H2 [For U.S. only]
Zone 21, Groups IIIC [For U.S. only]

cQPSus File LR1504-1

ANTENNA BARRIER

Class I, Zone 1, AEx db mb [ia Ga] IIA/IIB/IIC/ T6...T5 Gb
Zone 21, AEx mb tb [ia Da] IIIC T80°C...T100°C Db
Ex db mb [ia Ga] IIA/IIB/IIC T6...T5 Gb
Ex mb tb [ia Da] IIIC T80°C...T100°C Db
Class I, Division 1, Groups ABCD
Class II, Division 1, Groups EFG
[Ex ia Ga] IIC
[Ex ia Da] IIIC

cQPSus File LR1504-3

NOMENCLATURE

HWA	0 01	03	- 42	1	X0
a	b	c	d	e	

a Enclosure

HWA Aluminum polyester powder coated
HWS Stainless steel AISI 316 (CF8M) electropolish

b Connector

01 RP-SMA Male
02 RP-SMA Female
03 SMA Male
04 SMA Female
07 N Male
08 N Female
09 TNC Male
10 TNC Female
11 BNC Male
12 BNC Female

c Antenna connection ⁽¹⁾

03 n° 1 RXN antenna barrier (N Female)
04 n° 1 RXF antenna barrier (RP-SMA Female)
05 n° 1 RXS antenna barrier (SMA Female)
33 n° 2 RXN antenna barrier (N Female)
44 n° 2 RXF antenna barrier (RP-SMA Female)
55 n° 2 RXS antenna barrier (SMA Female)

d Cable entries

42 n° 4 3/4" npt-f (one used for antenna coupler)
44 n° 4 M25x1.5 (one used for antenna coupler)

e Approvals

X0 Atex/IECEx Gas and Dust certified (H
M0 Atex/IECEx Gas, Dust and mining certified (HWS only)
N0 QPS CL1 DIV1 and North American Zones listed ⁽²⁾

Notes:

⁽¹⁾ Antenna not included

Consult dimensional drawings for specific layout

⁽²⁾ Zone 1, 2, 21 & 22



SOLEXY USA, LLC

PO Box 628, West Chester, Ohio 45071 USA . Phone: (+1) 513.860.5465 - Fax: (+1) 513.860.5464 . Email: usa@solexy.net

www.solexy.net



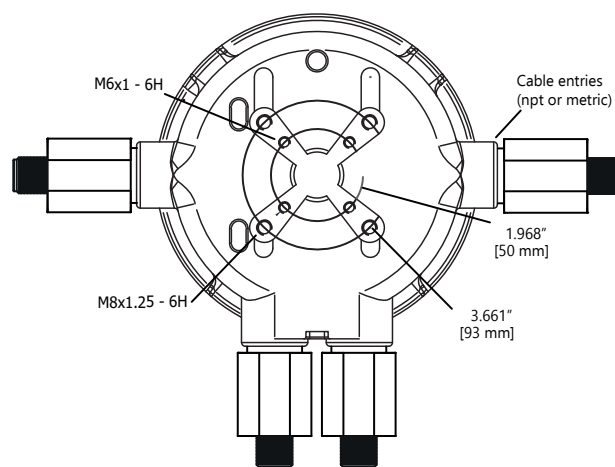
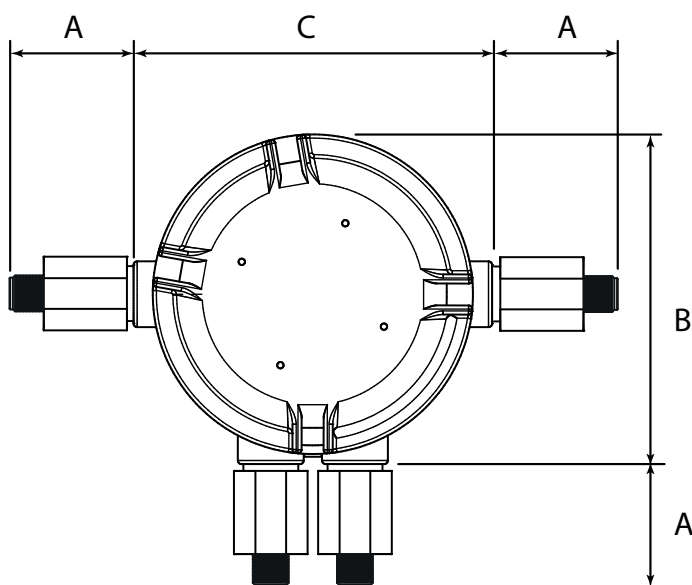
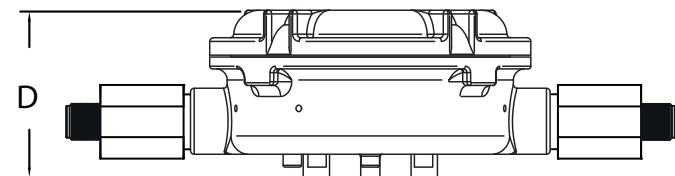


DIMENSIONAL DRAWINGS

In order to determine overall dimension of a specific unit pls follow instructions:

1) Select the specific layout (you can find it in the product nomenclature)

2) Consider only the antenna coupler dimension (A) that you find in the layout

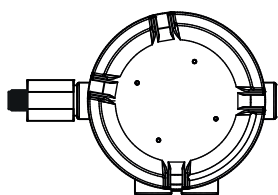


Model	A (*)	B	C	D
SWA HWA	58,5 mm [2.30"] metric coupler 70 mm [2.76"] npt coupler	179,8 mm [7.08"]	180 mm [7.09"]	89,5 mm [3.52"]
SWS HWS	58,5 mm [2.30"] metric coupler 70 mm [2.76"] npt coupler	180,5 mm [7.11"]	196 mm [7.72"]	90 mm [3.54"]

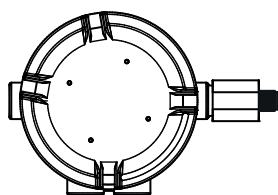
(*) max dimension related to RX or SX coupler with N female antenna connector

TYPICAL LAYOUTS **

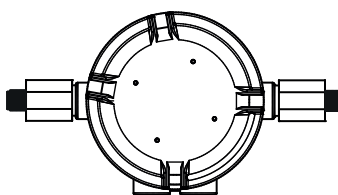
Layout 1



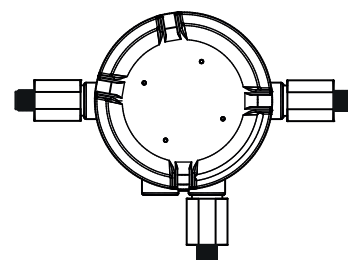
Layout 2



Layout 3



Layout 4



(**) layout type specified in device datasheet



SOLEXY SRL

Via Enrico Fermi, 2 - 25015 Desenzano del Garda (BS) ITALY . Phone: (+39) 030 787.0.787 - Fax: (+39) 030 787.0.777 . Email: info@solexy.net - Piva/VAT/CF 03471700983