

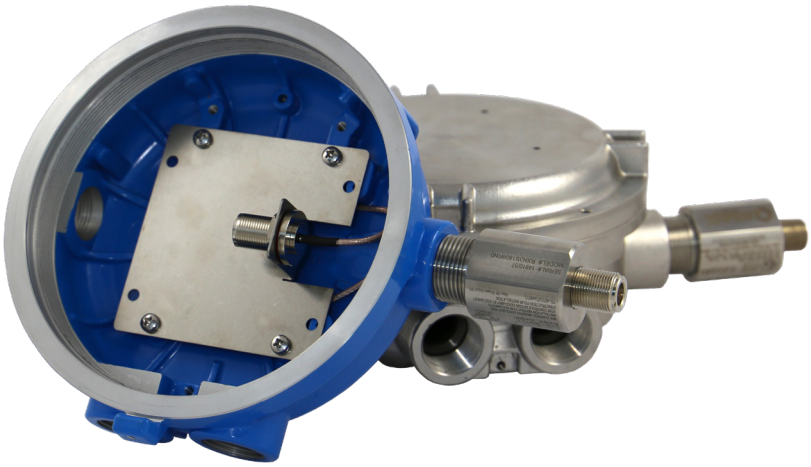
SOLEXY WIRELESS

HAZ LOC RADIO SOLUTIONS

DATASHEET

B000018-04

EXPLOSION PROOF RF JUNCTION BOX



Solexy's explosion proof RF junction boxes are specifically designed to allow a radio frequency coax cable junction/ extender in hazardous location.

There are many installations of RF systems where you are going from a non-rated area to a classified one. With the Solexy HWA and HWS RJ junction boxes there is now a solution for this type of installation.

Thanks to our RX, SX or UX series, mounted on our RF JB, connection in hazardous area of antennas is now possible. The intrinsically safe output from the antenna barriers allow for use of standard antenna in hazloc.

The RF junction boxes can have up to 2 antenna connections per box, and are available in two configurations:
The HWA series is made of a corrosion resistant low copper aluminium; It is powder coated as well to prevent corrosion in the hashest environments.
The HWS series is made of 316 series stainless steel (CF8M); This box is built for the toughest environments where nothing else but stainless will do.

FEATURES

HEAVY DUTY CONSTRUCTION
Explosion proof enclosure made in aluminium (HWA series) or stainless steel (HWS series)

WEATHER PROOF
IP 66/68

CABLE ENTRIES
M25X1,5 or 3/4" NPT

DUAL ANTENNA LAYOUT
Available double antenna connection for spreading signals of 2 antennas from a single box

APPROVALS

ATEX / IECEx CERTIFICATION

Zone 1, 2, 21 & 22
I M2(M1) Ex db mb [ia Ma]
I Mb (SWS only)
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

USA & CANADA CERTIFICATION

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]
Ta = -60°C to +80°C

AVAILABLE ACCESSORIES

MOUNTING BRACKET

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

CONFIGURATION

HWA	0	08	03	-	42	1	X0
a		b	c		d		e

a – Enclosure

HWA	Aluminium polyester powder coated
HWS	Stainless steel AISI 316 (CF8M) electropolished

b – Internal side connector

07	N Male
08	N Female
**	**Specific connector on request**

c - Antenna connection (1)

03	n° 1 RXN antenna coupler (N Female) (2)
33	n° 2 RXN antenna coupler (N Female) (3)
08	n° 1 UXN antenna coupler (N Female) (2)
88	n° 2 UXN antenna coupler (N Female) (3)

d - Cable entries

42	n° 4 3/4" npt-f
44	n° 4 M25x1.5

e - Approvals

X0	Atex/IECEx Gas and Dust certified (4)
M0	Atex/IECEx Gas, Dust and mining certified (4)
N0	QPS CL1 DIV1 and North American Zones listed

Notes: (1) RX barrier (03, 33) for low frequencies application, UX barrier (08, 88) for high frequencies(above 1 GHz)
(2) Layout 2
(3) Layout 3 (consult dimensional drawings for specific layout)



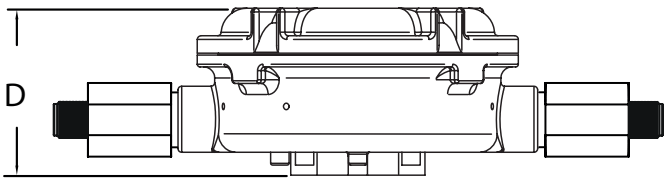


SPECIFICATIONS

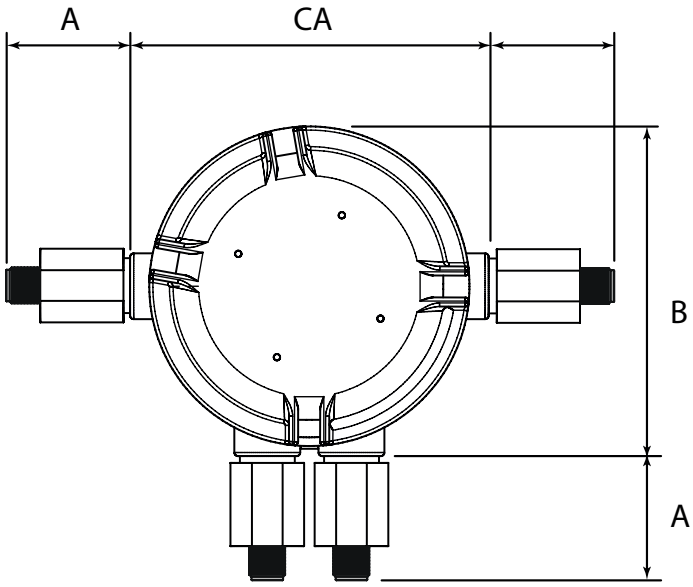
GENERAL	
ATEX certification	nr. FIDI 20 ATEX 0014 Standards: EN IEC 60079-0:2018, EN 60079-11:2012, EN 60079-31:2014, EN 60079-1:2014, EN 60079-18:2015+A1:2017
IECEx certification	nr. IECEx EXA 14.0001 Standards: IEC 60079-0:2017, IEC 60079-11:2011, IEC 60079-31:2013, IEC 60079-1:2014-06, IEC 60079-18:2017
North America certification	nr. LT1504-1R2 CSA C22.2 No. 30-M1986 CSA C22.2 No. 25-17 CSA C22.2 No. 94.2-15 UL 1203, Edition 5.0 UL 50E, Edition 2.0
Maximum input voltage	125VDC, 250VAC 60 Hz
Tipical insertion loss	Check RX and UX antenna barrier datasheets for insertion loss data
Approximate weight	HWA: 2,1 Kg (4,6lb) (complete of 1 antenna barrier) HWS: 4,8 Kg (10,6lb) (complete of 1 antenna barrier)
IP rating	IP 66/68
Impedance	50 Ω
Ambient temperature range	-40°C (-40°F) to +80°C (+176°F)

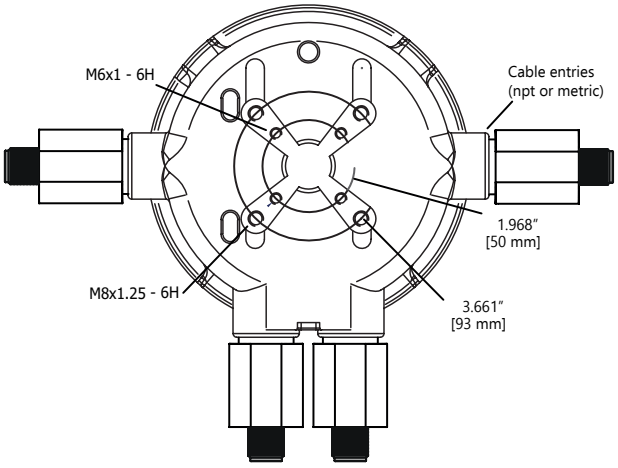
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DIMENTIONAL DRAWINGS



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

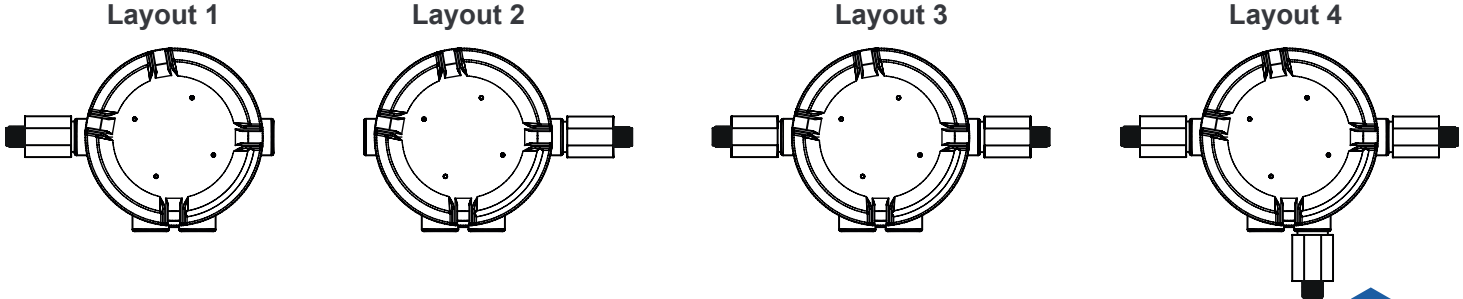




MODEL	A (*)	B	C	D
SWA HWA	58,5 mm [2.30"] metric coupler 70 mm [2.76"] npt coupler	179,8 mm [7.08"]	180 mm [7.09"]	89,5 mm [3.52"]
SWS HWS	58,5 mm [2.30"] metric coupler 70 mm [2.76"] npt coupler	180,5 mm [7.11"]	196 mm [7.72"]	90 mm [3.54"]

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

TYPICAL LAYOUTS **



(**) layout type specified in device datasheet

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