



Mining And Surface Certification (Pty) Ltd 2015/021934/07

IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT (INCORPORATION THE MINE HEALTH AND SAFETY ACT) AND REGULATION 9 (1) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT IA CERTIFICATE MASC MS/20-8336X Issue 0 Issue Date 01 Septembers 2020 Expiry Date 01 September 2023 \*Based on Certificate No EXA 15 ATEX 0042 Issue / Variations / Amendment Nautitech Mining, Middelburg, 1050, South Africa Requested by Solexy USA, LLC Manufacturer 10178 International Blvd. Cincinnati (OH) 45246 The Solexy RX series Antenna Coupler permits the installation of non-Ex certified radio antenna in the Description hazardous area. It acts as capacitive coupling between an RF transmitter/receiver installed in an enclosure and passive antenna installed outside the enclosure directly connected to the antenna coupler or through cable connection, and it also acts as a flameproof bushing suitable to be mounted to the cable entry of a flameproof enclosure engaged in a threaded flameproof joints. The antenna coupler blocks DC signals and provides very high impedance to low frequency AC signals; it blocks power voltage in the event of a radio transmitter/receiver fault. If a radio transmitter/receiver is installed in a safe area, the Antenna Coupler protects the output signal using a cable connected to an antenna that is installed in the hazardous area. \*See base certificate for technical data Equipment Antenna Coupler Type **RX** Series MARKING: RX Series Antenna Coupler Туре Original marking as per Ex Marking Ex db mb [ia Ma] I Mb certificate \* remains Ex db mb jia Gaj IIA/IIB/IIC T5/T6 Gb Ex mb tb [ia Da] IIIC T100°C/T80°C Db applicable. IA number to be added. **IA Number** MASC MS/20-8336X See Base Certificate \* and original marking Warnings Quality Assurance report (QAR) / "It is a requirement under ATEX that all equipment for category 1 and 2 areas must have Notification (QAN): 3rd party quality assurance from a notified body. This is accepted to cover the equipment's quality requirements. Compliance: The equipment as described above has been allocated the rating Explosion Protected utilizing the SANS/IEC Standards: SANS (IEC) 60079-0:2012 General requirements SANS (IEC) 60079-1:2015 Flameproof enclosures "d" . SANS (IEC) 60079-11:2012 Intrinsic safety "i" SANS (IEC) 60079-18:2015 Equipment protection by encapsulation "m" SANS (IEC) 60079-31:2014 Equipment protection by enclosure "t" Special conditions of safe use "X": None

Conditions of manufacture:

None

C Welthagen **TECHNICAL SPECIALIST** 

**D.P Visser** 

TECHNICAL SPECIALIST

/. ANNEX A...

This certificate covers all units sold as long as the QAR/QAN remains valid. According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved mark scheme or batch testing by an accredited test laboratory).

Apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to: SANS 10086 requirements; Any conditions mentioned in the above report Any restrictions and conditions enforced by the chief inspector of mines or chief inspector of factories Any relevant requirements of the MHS Act.

This certificate amay only be reproduced in full. This certificate is not transferable and remains the property of the issuing body

> Mining And Surface Certification (Pty) Ltd Unit 5 Lelyta Park, 45 Jurg Ave, Hennopspark Ext 87 Centurion, 0157

# IA CERTIFICATE: MASC MS/20-8336X Antenna Coupler

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ANNEX A

	This document is based on and must be read in conjunction with certificate EXA 15 ATEX 0042								
Description (According to Base Certificate *)									
"Refer to description in Base Certfiicate * (and any applicable schedules/issues/variations)."									
Standard compliance	See Base Certificate *								
Special conditions of safe use ("X")	• None								
Conditions of manufacture	• None								
Conditions of Certification	<ul> <li>This IA Certificate covers all units sold from the date of this document to the expiry date of this certificate.</li> <li>As per ARP 0108 a maximum three yearly review is required on this IA Certificate (expiry is determined as per the QAR/QAN/QMS expiry date).</li> <li>The apparatus must be additionally marked with the MASC marking details above.</li> <li>This approval only covers the equipment as certified above and does not include any scheduled additions or variations / amendments / new issues to the certificate(s), made after the above date.</li> <li>The equipment does not need to be re-tested when used on the conditions and with such restrictions as prescribed by the certificate on which this IA Certificate is based and any other conditions in this IA Certificate.</li> <li>The extent of the requirements in the ARP 0108 (or regulations), SANS 10108 and any other applicable regulations on the certification/report for the equipment must remain valid.</li> </ul>								
Conclusion:	<ul> <li>From the above and the selective examination of the documentation, nothing contrary to the requirements of the applicable standards was found, provided that the equipment / component is used as described in the above document / certificate and according to the MASC conditions below. A MASC IA certificate is issued based on the work done as per the Base Certificate *.</li> <li>The routine tests for production units according to the Base Certificate * must be complied with (if applicable).</li> </ul>								

This document is issued based on Mining And Surface Certification's Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment / inspection is representative and accurately performed, and that a report / certificate is accurate in the quoted results and conclusions drawn from the test / assessment / inspection, MASC or its directors/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report / certificate issued pursuant to a test / assessment / inspection.

MASC takes no responsibility for any non-conformances, exclusions or any results / assessments / inspections not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer / applicant attests on his own responsibility that the equipment / installation has been designed and constructed in accordance with the applicable requirements of the relevant standards and documentation, that the routine verifications / routine tests have been correctly completed and the equipment / installation complies with the documentation and standard(s).

This document is only for use and application in South Africa. It is issued based on National interpretations and accepted practices





[1]		EC – TYPE			CERTIFICAT	E			
[2]	Equipment and Directive 94/9/	Protective Systems	s Intended	for use in Poter	ntially Explosive At	mospheres			
[3]	EC-Type Exam	ination Certificate N	lumber:	EXA 15 A	TEX 0042	Issue:	1		
[4]	Equipment or F	Protective System	Antenr	na Coupler					
	Туре:	<b>RX Series</b>							
[5]	Manufacturer:	Solexy USA, LL	_C						
[6]	Address:	10178 Internation	onal Blvd	, Cincinnati (O	H) 45246				
[7]	This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.								
[8]	Ex-Agencija, Notified Body number 2465 according to Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system intended for use in potentially explosive atmospheres given in Annex II of the Directive.								
Ì	The examination and test results are recorded in confidential report number: <b>EXA 15CR056</b>								
[9]	Compliance with	n the Essential Heal	th and Saf	ety Requiremer	its has been assur	ed by compliand	ce with:		
	EN 60079-0:20 EN 60079-18:2 except in respe		EN 60	079-1:2014 079-31:2014 I at item 18 of th		l 60079-11:2012	2		
[10]		placed after the cer ecific conditions for					system		
[11]	equipment or p	Examination Certific protective system. I pply of this equipme	Further re	quirements of	the Directive appl	ly to the manuf	acturing		
[12]	The marking of	the equipment or p	rotective s	ystem shall inc	lude the following:				
	UI 2	2 (M1) Ex db ml (1) G Ex db mb (1) D Ex mb tb	o [ia Ga]	IIA/IIB/IIC T					
>	Date: 20.1	11.2015.		SCALC		PB.13.TC.1	047/MK		
> > > > > > > > > > > > > > > > > > >		repared: runić, dipl.ing.el. Xrumit	LAPROSTOR APROSTOR	TA NEDELJA	Department of A	-Agencija equipment certif pproved: erek, dipl.ing.el.	ication		
Page	: 1/9					<b>U</b>			



[13]

**SCHEDULE** 

## [14] EC - TYPE EXAMINATION CERTIFICATE No.: EXA 15 ATEX 0042

#### [15] Description of Equipment or Protective System

The Solexy RX series Antenna Coupler permits the installation of non-Ex certified radio antenna in hazardous area. It acts as capacitive coupling between an RF transmitter/receiver installed in enclosure and passive antenna installed outside enclosure directly connected to the antenna coupler or through cable connection, and it also acts as a flameproof bushing suitable to be mounted to the cable entry of a flameproof enclosure engaged in a threaded flameproof joint. The antenna coupler blocks DC signals and provides very high impedance to low frequency AC signals; it blocks power voltage in the event of a radio transmitter/receiver fault. If a radio transmitter/receiver is installed in a safe area, the Antenna Coupler protects the output signal using a cable connected to an antenna that is installed in hazardous area.

#### **Technical data:**

Maximum input voltage: Um = 250  $V_{AC}$  (50 Hz/60 Hz) or 250  $V_{DC}$ Maximum input RF frequency: 6 GHz

Minimum internal impedance of RF transmitter allowed: 50 Ω

The equipment is intended to be used in an ambient temperature range according to the following table:

 Gas
 Dust
 Ta

 T5
 T100°C
 -40°C ≤ Ta ≤ 85°C

 T6
 T80°C
 -40°C ≤ Ta ≤ 70°C

Maximum service temperature Ts of antenna coupler when installed on other equipment shall not exceed 85°C.

Refer to Table 2, Table 3, Table 4, Table 5, Table 6 and Table 7 which show relation between applicable combination of gas/dust group vs. type of antenna coupler, maximum allowable RF transmitter output power vs. frequency, maximum allowable antenna gain and type of antenna coupler.

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Ex-Agencija, HR, 10431 Sveta Nedelja, Industrijska 25, Phone: +385 1 3667-260, Fax.: + 385 1 3667-262 www.ex-agencija.hr ex-agencija@ex-agencija.hr





### Type designation coding

		XXX	Х	Х	ХХ	хх	Х	XX
		1	2	3	4	5	6	7
				Та	able 1			
1	Coupler Series	RXF		RP-SN	A fema	le anter	na co	nnection
		RXN		N fema	le antei	nna con	nectio	٦
		RXB		BNC fe	male a	ntenna o	connec	tion
		RXT	3	TNC fe	male ar	ntenna o	connec	tion
		RXS	3	SMA fe	male a	ntenna	connec	tion
2	Threading	М	]	M25x1	5			
		3	i	¾" npt-	m			
3	Material	S		AISI 30	3			
		С		AISI 31	6			
		L		AISI 31	6L			
4	Coaxial/Radio connector	хх	:	2 digit 1	or coax	connec	tor as	sembled on coax cable
5	Coaxial cable length	хх				ial cable connect		h (in inches) <i>cution)</i>
6	Version	х	3	1 digit 1	or versi	on		
7	Certification marking	X0		Atex –	IECEx			
		N0	ļ	JL-CS	٩			
		XN		Atex –	IECEx -	- UL-CS	A (do	ıble marking)

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					Radio F	ower, m	W(dBm	ŕ						
	Code	Н	J	к	L	M	N	0	Р	Q	R	S	Т	
	100	3753	3892	4004	4147	4410	4560	4743	5120	5445			-	
	100	(35,7)	(35,9)	(36.0)	(36,1)	(36,4)	(36,5)	(36,7)	(37.0)	(37,3)		44 (37,	5)	
	200	3699 (35,6)	3726 (35,7)	3753 (35,7)	3808 (35,8)	3864 (35,8)	3920 (35,9)	4032 (36.0)	4205 (36,2)	4500 (36,5)	4620 (36,6)	4743	(36.7	
	200	3672	3699	3726	3726	3753	3781	3836	3920	4032	(00,0)	4745	(50,7	
	300	(35,6)	(35,6)	(35,7)	(35,7)	(35,7)	(35,7)		(35,9)	(36.0)	40	89 (36,	1)	
	400						3591 (3					,		
	500		3225 (35.0)											
	600		2904 (34,6)											
	700		2645 (34,2)											
	800						2420 (3	33,8)						
	900						2247 (3							
	1000						2080 (3							
	1100		1960 (32,9)											
	1200		1824 (32,6)											
	1300		1729 (32,3)											
	1400		<u>1638 (32,1)</u> 1549 (31,9)											
	1500		<u> </u>											
	1600													
	1700 1800						1394 (3							
	1900						1344 (3							
Maximum	2000						1280 (3 1232 (3							
Frequency	2100						1185 (3							
[MHz]	2200	1140 (30,5)												
	2300	1095 (30,3)												
	2400	1050 (00,0)												
	2500	1022 (30.0)												
	2600	980 (29,9)												
	2700	952 (29,7)												
	2800	924 (29,6)												
	2900	897 (29,5)												
	3000						871 (2	9,4)						
	3250						649 (2	8,1)						
	3500						520 (2	7,1)						
	3750						432 (2	6,3)						
	4000						369 (2	5,6)						
	4250						328 (2							
	4500						288 (2-							
	4750						259 (2-							
	5000						238 (2							
	5250						217 (2							
	5500						198 (2)							
	5750						186 (2)							
	6000						174 (2)	2,4)						

Table 2

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Group IIA						Power, r								
	Code	Н	J	к	L	М	N	0	Р	Q	R	S	Т	
		3251	3328	3380	3484	3618	3753	4004	4321	4681	5120	5044	(07.5)	
	100	(35,1)	(35,2)	(35,2)	(35,4)	(35,5)	(35,7)	(36.0)	(36,3)	(36,7)	(37.0) 3864	5644 4176	(37,5) 4470	
	200	3200 (35.0)	3225 (35.0)	3251 (35,1)	3276 (35,1)	3302 (35,1)	3328 (35,2)	3406 (35,3)	3511 (35,4)	3672 (35,6)	(35,8)	(36,2)	(36,5)	
	200	(35.0)	(35.0)	(35,1)	(35,1)	(55,1)	(00,2)	3276	3328	3406	3511	3672	3864	
	300	3200	(35.0)	3225	(35.0)	3251	(35.1)	(35,1)	(35,2)	(35,3)	(35,4)	(35,6)	(35,8)	
			0200 (00.0) 0220 (00.0)				3251	3276	3302	3354	3458	3591		
	400		3200	(35.0)		3225 (35.0) (35,1) (35,1) (35,1) (35,2) (35,3) (35,5)								
	500		32	200 (35.	D)				33	225 (35.	0)			
	600						2904							
	700						2645							
	800						2420							
	900						2247							
	1000						2080							
	1100						1960							
	1200						1824	1						
	1300						1729							
	1400		1638 (32,1)											
	1500		<u> </u>											
	1600		<u> </u>											
	1700		<u> </u>											
Maximum	1800 1900		1280 (31.0)											
Frequency	2000		1230 (31.0) 1232 (30,9)											
[MHz]	2100		1185 (30,7)											
	2200		1140 (30,5)											
	2300	1095 (30,3)												
	2400	1050 (60,0)												
	2500	1022 (30.0)												
	2600	980 (29,9)												
	2700	952 (29,7)												
	2800							4 (29,6)						
	2900	897 (29,5)												
	3000	871 (29,4)												
	3250	649 (28,1)												
	3500	520 (27,1)												
	3750						432 (							
	4000						369 (							
	4250						328 (							
	4500						288 (	24,5)						
	4750						259 (							
	5000						238 (							
	5250						217 (							
	5500						198 (	22,9)						
	5750						186 (							
	6000						174 (	22,4)						

#### Table 3

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Group IIB					Radio	Power,	mW(dBi	m)						
	Code	Н	J	К	L	M	N	0	Р	Q	R	S	Т	
		2761	2832	2904	2976	3075	3200	3380						
	100	(34,4)	(34,5)	(34,6)	(34,7)	(34,8)	(35.0)	(35,2)			500 (35,	4)		
		2737	2761			2808	2856	2904	3001	3125	3276			
	200	(34,3)	(34,4)	2784	(34,4)	(34,4)	(34,5)	(34,6)	(34,7)	(34,9)	(35,1)	3500		
		0707	(0.4.0)	0	704 /04	1	2784	2808	2856	2904	2976	3125	3276	
	300	2737	(34,3)	2	761 (34,	4)	(34,4)	(34,4) 2784	(34,5) 2808	(34,6)	(34,7)	(34,9)	(35,1 3050	
	400		2737	(34 3)		2761	(34,4)	(34,4)	(34,4)					
	400		2101	(04,0)		2701	(04,4)	(04,4)	2784	2808	2832	2880	295	
	500		27	737 (34,3	3)		2761	(34,4)	(34,4)	(34,4)	(34,5)	(34,5)	(34,7	
					/					2784	2808	2832	288	
	600			2737	(34,3)			2761	(34,4)	(34,4)	(34,4)	(34,5)	(34,5	
	700						2645	(34,2)						
	800						2420	(33,8)						
	900						2247	(33,5)						
	1000						2080	(33,1)						
	1100						1960							
	1200						1824							
	1300	1729 (32,3)												
	1400	1638 (32,1)												
	1500	1548 (31,8)												
	1600	1462 (31,6)												
	1700	1394 (31,4)												
Maximum	1800	1344 (31,2)												
Frequency	1900	1280 (31.0)												
[MHz]	2000	1232 (30,9)												
	2100	1185 (30,7)												
	2200	1140 (30,5)												
	2300	1095 (30,3)												
	2400	1051 (30,2)												
	2500	1022 (30.0)												
	2600	980 (29,9)												
	2700	952 (29,7)												
	2800	924 (29,6)												
	2900	897 (29,5)												
	3000 3250	<u> </u>												
	3250													
	3750						520 ( 432 (							
	4000						369 (							
	4250						328 (	25,0)						
	4250						288 (							
	4750						259 (							
	5000						238 (							
	5250						217 (							
	5500						198 (							
	5750						186 (							
	6000						174 (							

#### Table 4

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Group IIC					Table	5							
Group IIC				Radio	Power, I	nW(dBr	n)						
	Code	J	ĸ	L	M	N	0	Р	Q	R	S	Т	
		1843	1862	1901	1960								
ľ	100	(32,6)	(32,6)	(32,7)	(32,9)		1000		2000 (33.0)				
	200	1700	(22.5)	1805		1824 1843 1862 1920 (22.6) (22.6) (22.8)				1980 (32,9) 2000 (33.0)			
	200	1786 1767	(32,5)	(32,5)	(32,6)	(32,6) 1805	(32,6) 1824	(32,8) 1843	(32,9)	1920	1980	2000	
	300	(32,4)	1	786 (32,5)	(32,5)	(32,6)	(32,6)	(32,6)	(32,8)	(32,9)	(33.0		
1		(0=, 1)				<u> </u>		1805	1824	1862	1901	1940	
	400	1767	(32,4)		1786 (3	2,5)		(32,5)	(32,6)	(32,6)	(32,7)	(32,8)	
			707 (00 1)			4700 /	00.5		1805	1824	1862	1881	
	500	1	1767 (32,4)				32,5)		(32,5)	(32,6) 1805	(32,6) 1824	(32,7	
	600		17	67 (32,4)			1	786 (32,	5)	(32,5)	(32,6)	(32,6	
				01 (02,4)				00 (02,	•/	(02,0)	(0=,0)	1843	
	700		17	67 (32,4)			1	786 (32,	5)	1805	(32,5)	(32,6	
											1805	1824	
	800			1767 (32	.,4)			1	786 (32,	5)	(32,5)	(32,6)	
	900			1707	′ (32,4)				4.	786 (32,	1805 (32,5)		
	900			1/0/	1	100 (32,3		1805					
	1000			1767	(32,4)				1	786 (32,5) (32,5			
	1100				1767 (32,4	4)				1786 (32,5)			
	1200		1767 (32,4)										
	1300	<u> </u>											
	1400	1638 (32,1)											
	1500	1548 (31,8)											
Maximum	1600	1462 (31,6)											
Frequency	1700	<u>1394 (31,4)</u> 1344 (31,2)											
[MHz]	1800	1344 (31,2)											
ŀ	1900	<u>1280 (31.0)</u> 1232 (30.9)											
	2000 2100	<u> </u>											
-	2200	1189 (30,7)											
-	2300	1095 (30,3)											
-	2400	1050 (50,0)											
-	2500	1022 (30.0)											
-	2600	980 (29,9)											
Ī	2700	952 (29,7)											
[	2800	924 (29,6)											
	2900					897 (2							
ŀ	3000					871 (2							
-	3250					649 (2							
	3500					520 (2							
-	3750					432 (2							
-	4000 4250					369 (2 328 (2							
ŀ	4250					288 (2							
-	4750					259 (2							
ŀ	5000					238 (2							
-	5250					217 (2							
-	5500					198 (2							
	5750					186 (2							
	6000					174 (2							

### Table 5

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Т	Table 6							
Equipment for	Max Threshold power							
Group I	6W (37,7 dBm)							
Group IIA	6W (37,7 dBm)							
Group IIB	3,5W (35,4 dBm)							
Group IIC	2W (33,0 dBm)							
Group III	6W (37,7 dBm)							

The maximum allowable antenna gain shall be calculated using following formula:

Antenna gain (dBi) = Max threshold power (dBm) – RF radio output power (dBm) + Coax cable loss (dB)\*

\*when used for antenna connection to Solexy Antenna Coupler

In case of device with multiple antennas, each antenna gain shall be calculated according to above formula.

For maximum allowable RF transmitter output power (Table 2 to Table 5), if RF transmitter frequency is between values in table, use next higher value.

For antenna gain calculation and installation group following tables shall be considered:

Table 7									
Antenna coupler type	Group								
RXH_	I, IIA, IIB, IIIA, IIIB, IIIC								
RXJ_	I, IIA, IIB, IIC, IIIA, IIIB, IIIC								
RXK_	I, IIA, IIB, IIC, IIIA, IIIB, IIIC								
RXL_	I, IIA, IIB, IIC, IIIA, IIIB, IIIC								
RXM_	I, IIA, IIB, IIC, IIIA, IIIB, IIIC								
RXN_	I, IIA, IIB, IIC, IIIA, IIIB, IIIC								
RX0_	I, IIA, IIB, IIC, IIIA, IIIB, IIIC								
RXP_	I, IIA, IIB, IIC, IIIA, IIIB, IIIC								
RXQ_	I, IIA, IIB, IIC, IIIA, IIIB, IIIC								
R	I, IIA, IIB, IIC, IIIA, IIIB, IIIC								
RXS_	I, IIA, IIB, IIC, IIIA, IIIB, IIIC								
T	I, IIA, IIB, IIC, IIIA, IIIB, IIIC								

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#### [15.1] Documentation

Title:	Drawing No.:	Rev. level:	Date:
RX Series Antenna Coupler Execution	PD00050	00	2015-07-20
Capacitive Barrier Maximum Allowable Radio Output Power	AN00002	06	2015
Assembly, Model RXN/RXT/TRXB Explosion proof Antenna Fitting - ATEX / IECEx	DA00148	00	2014-11-20
Assembly, Model RXF/RXS Explosion proof Antenna Fitting - ATEX / IECEx	DA00149	00	2014-11-20
Dimensional drawing RXN/RXT/RXB compound thicknesses –ATEX / IECEx	DD00083	00	2014-10-24
Dimensional drawing RXF/RXS compound thicknesses –ATEX -/ IECEx	DD00084	00	2014-07-15
PCB Assembly RXF/RXS – ATEX / IECEx Ex to IS antenna interface	DE00157	00	2014-07-08
PCB Assembly RXN/RXT/RXB – ATEX / IECEx Ex to IS antenna interface	DE00158	00	2014-07-08
ATEX / IECEx – RX Series Product Markings Explosion Proof Antenna Coupler	DM00063	00	2014-11-12
Housing, Explosion Proof Antenna Fitting M25x1.5 Thread, full flats, RXF/RXS	MM00875	00	2014-04-24
Housing, Explosion Proof Antenna Fitting ¾-14 NPT Thread, RXF/RXS	MM00874	00	2014-04-24
Housing, Explosion Proof Antenna Fitting M25x1.5 Thread, full flats, RXN/RXT/RXB	MM00873	00	2014-04-24
Housing, Explosion Proof Antenna Fitting ¾-14 NPT Thread, RXN/RXT/RXB	MM00872	00	2014-04-24
Housing, Exp Proof Antenna Fitting M25x1.5 Thread, RXN/RXT/RXB	MM00913	00	2015-08-20
Housing, Exp Proof Antenna Fitting M25x1.5 Thread, RXF/RXS	MM00914	00	2015-08-20
Schematic, RX Series Explosion Proof Antenna Fitting	DS00109	03	2014-10-06
Related Drawing, RX Series EXP. Proof Antenna Fitting – ATEX/IECEx	DC00074	00	2014-10-09
Installation & Operational Manual RX Series ATEX- IECEx Version	IOM00053- 03	03	2014

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#### [16.1] Routine testing

The manufacturer shall carry out the following routine test:

Each piece of "m" equipment shall be subjected to a visual inspection. No damage shall be evident, such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure of adhesion (separation of any adhered parts) or softening.

#### [17] Specific Conditions for Safe Use 'X'

None.

### [18] Essential Health and Safety Requirements

Covered by the standards listed at item 9.

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