

1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System**
3 **Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa15ATEX0162U**

4 Component: **RGB, RGG and RGS Range of multi cable transits**

5 Manufacturer: **MCT Brattberg AB**

6 Address: **SE-371 92 Karlskrona, Sweden**

7 This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR15.0249-00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 +A11:2013 EN 60079-7:2015 EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified Component. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

12 The marking of the component shall include the following :

Ex II2GD Ex eb IIC Gb Ex tb IIIC Db T_{amb} = -60°C to +70°C

Baseefa Customer Reference No. **5909**

Project File No. **15/0975**

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R S Sinclair

Re-issued 27th January 2016 to replace original

R S SINCLAIR
GENERAL MANAGER

PP DUBREUILLEY

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa15ATEX0162U

15 Description of Component

The RGS, RGB, RGG range of multi cable transits are intended for use with circular cables or circular metal pipes. The frames may be welded, cast in concrete or bolted to an enclosure or building wall. The transit frames are manufactured from metal having a right angle or flat bar form, with the material having a minimum tensile strength of 340 N/mm². The transit frames are of welded construction, which provides an aperture for the insertion of transit blocks to seal around the cables or pipes as above.

The RGS, RGB, RGG range of multi cable transits are assembled from the following:

- a. Frame variants as detailed in matrix drawing No 116009. Each of the frame variants as detailed in the matrix, may be welded together to form multiple rows and columns of frames, in addition these frames may be plated or surface treated to suit the application.
- b. Solid rubber insert blocks manufactured from Lycron A. These blocks range from 5mm to 120mm square, and are marked and designated 24x5/0 to 120/0. The blocks are uniquely marked on both faces with a green Ex designation surrounded by a green hexagon frame.

A variation of the Insert Blocks may also be manufactured to provide EMC protection and these are uniquely marked on the forward face with a yellow Ex designation surrounded by a yellow hexagon frame. The back face is marked with a green Ex designation surrounded by a green hexagon frame

- c. Insert blocks manufactured from Lycron A. These blocks have moulded semi-circular concave sections of fixed radius along their length, which when placed on top of each other form a square block of 20 to 120mm. The blocks have a central circular hole of fixed diameter, ranging from 4mm to 90mm depending on the block size, and when compressed form a seal around circular cables or pipes. These blocks together with their associated cables or pipes are assembled in rows inside the frame up to a specified height, with the block halves designated and marked 20/4 to 120/90. The blocks are uniquely marked on both faces with a green Ex designation surrounded by a green hexagon frame.

A variation of the Insert Blocks may also be manufactured to provide EMC protection and these are uniquely marked on the forward face with a yellow Ex designation surrounded by a yellow hexagon frame. The back face is marked with a green Ex designation surrounded by a green hexagon frame

- d. Metal stayplate, which is positioned inside the frame between each complete row of the rubber blocks. The stayplate is retained by lugs which allow it to slide in the frame as the insert blocks are compressed.
- e. Press wedge, which is fitted into position in a fully relaxed state and then tightened to the required torque via 2 x 8mm stainless steel Allen grub screws or 2 x stainless steel hexagon headed bolts, which then compress the insert blocks to seal the cables / pipes. A variation of the Press wedge may also be manufactured to provide EMC protection and these are identified by yellow 'Ex' markings on the front face

16 Report Number

Baseefa certification report GB/BAS ExTR15.0249-00 (Re-issued 27th January 2016)

17 Schedule of Limitations

1. These transits are suitable for use within a service temperature range of -60°C to +70°C.
2. The blocks must be assembled using the manufacturer's supplied tallow lubricant which must be applied to all faces of the sealing blocks prior to assembly.
3. The transits are only for use with circular cables and circular pipes

4. The assembled frame and cables shall be left for a period of 48 hours prior to the installation being energised.
5. When the frame is used for increased safety or dust protection, the frame shall be suitably sealed (in accordance with IEC 60079-14) to maintain the ingress protection rating of the associated enclosure
6. The fasteners of all variants shall be torqued up to 20Nm
7. Non-metallic surfaces shall be protected from electrostatic charging hazards

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

As follows, in addition to those covered by the standards at item 9.

19 Drawings and Documents

Drawing No.	Sheet	Issue	Date	Description
² 1160009	1	B	08/12/2015	Matrix component approved ATEX / IECEx frames
¹ 1160010	1	A	08/12/2015	PTG-120 Allen EMC Stainless ATEX / IECEx
¹ 1160011	1	A	08/12/2015	PTG-120 Hex EMC Stainless ATEX / IECEx
¹ 1070356	1	D	04/12/2015	Frames for ATEX and IECEx
¹ 1070357	1	C	04/12/2015	Insert Blocks 90 and 120 ATEX
¹ 1160023	1	A	08/12/2015	Spare block EMC 120 x 5/0
¹ 1160024	1	A	08/12/2015	Spare block EMC 120 x 10/0
¹ 1160017	1	B	08/12/2015	Spare block EMC
¹ 1160018	1	B	08/12/2015	Insert block EMC
¹ 1150422	1	B	04/12/2015	Insert blocks normal module ATEX
¹ 1150423	1	B	04/12/2015	Spare block
¹ 1150424	1	A	02/12/2015	Spare block 24 x 5/0 ATEX
¹ 1150425	1	A	02/12/2015	Spare block 12 x 10/0 ATEX
¹ 1150426	1	A	02/12/2015	Spare block Normal module ATEX
¹ 1150427	1	B	04/12/2015	Multiple frames ATEX and IECEx
¹ 1150428	1	B	04/12/2015	PTG-120 INSEX / Allen stainless ATEX
¹ 1130320	1	A	13/10/2015	Filling wedge PTG-120
¹ 1130321	1	A	13/10/2015	Front presswedge PTG
¹ 1130322	1	A	13/10/2015	Rear presswedge PTG
¹ 1130323	1	A	13/10/2015	Fitting for presswedge PTG
¹ 1130324	1	A	13/10/2015	Nut for front presswedge PTG
¹ 1130325	1	A	13/10/2015	Nut for rear presswedge PTG
¹ 1130327	1	A	13/10/2015	Lockplate
¹ 1130328	1	A	13/10/2015	Lockplate PTG
¹ 140643	1	D	24/03/2011	Spring
¹ 1140161	1	A	13/10/2015	Allen Screw
¹ 1150429	1	A	02/12/2015	PTG-120 UTV.SEXKANT / HEX Stainless ATEX
¹ 1130326	1	A	13/10/2015	HEX Screw
¹ 1150431	1	B	04/12/2015	Label for MCT Brattberg ATEX / IECEx PTG
¹ 1150435	1	B	04/12/2015	Stayplate with inlay ATEX

¹These drawings are common to Baseefa15ATEX0162U, Baseefa 15ATEX0163X, IECEx BAS 15.0108X and IECEx BAS 15.0107U and held with the latter.

²This drawings is common to Baseefa15ATEX0162U and IECEx BAS 15.0107U and held with the latter.

1 SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE

**2 Component Intended for use on/in an Equipment or Protective System
Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 Supplementary EU - Type Examination Certificate Number: Baseefa15ATEX0162U/1

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016

4 Product: RGB, RGG and RGS Range of multi cable transits

5 Manufacturer: MCT Brattberg AB

6 Address: SE-371 92 Karlskrona, Sweden

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa15ATEX0162U** to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

SGS Baseefa Customer Reference No. **5909**

Project File No. **16/0111**

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R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa15ATEX0162U/1

15 Description of the variation to the Product

Variation 1.1

To allow the addition of an optional insert block called an AddBlock. The AddBlock comes in 11 different sizes and provides tear off wing inserts which are of varying thickness. The wing inserts are manufactured with locating ridges, which when inserted into the furrows of the main block provide 55 different cable and pipe dimensions ranging from 3.5mm to 69.5mm. The AddBlocks have the option of being fitted with 9 different sizes of blanking plug, which allows for ease of modification to existing installations, these AddBlocks are uniquely marked on the both faces with green identification. The manufacturer provides a variation to the AddBlock with E.M.C. capability as per the existing blocks, these are uniquely marked on the forward face with yellow identification and marked on the back face with green identification.

16 Report Number

Baseefa certification report GB/BAS/ExTR16.0043/00

17 Schedule of Limitations

None additional to those listed previously

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is affected as follows.

Clause	Subject	Compliance
1.4.1	External effects	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions
1.4.2	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
1160131	1	A	16/03/14	WRAP ATEX / IECEX
1160132	1	A	16/03/14	PLUG ATEX / IECEX
1160133	1	A	16/03/14	ADDBLOCK ATEX / IECEX
1160134	1	A	16/03/14	ADDBLOCK EMC 20/4 – 20/8 ATEX / IECEX
1160135	1	A	16/03/14	ADDBLOCK EMC ATEX / IECEX
1160139	1	A	2016/03/17	PIN FOR EMC BLOCKS ATEX / IECEX
1160140	1	A	2016/03/17	EMC CONTACT SHEET INSERT TAB E20/4 & E20/5 TO ADDBLOCK EMC 20/4-8 ATEX / IECEX
1160141	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 20/4-8 ATEX / IECEX
1160142	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 20/9-13 ATEX / IECEX
1160143	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 30/14-18 ATEX / IECEX
1160144	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 30/19-23 ATEX / IECEX
1160145	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 40/24-28 ATEX / IECEX

Certificate Number
Baseefa15ATEX0162U/1



Issued 13th June 2016
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Number	Sheet	Issue	Date	Description
1160146	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 40/29-33 ATEX / IECEX
1160147	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 60/32-38 ATEX / IECEX
1160148	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 60/39-43 ATEX / IECEX
1160149	1	A	2016/03/17	CONTACT SHEET ADDBLOCK EMC 60/44-48 ATEX / IECEX

REVISIONS			
REV.	DESCRIPTION	DATE	SIGNATURE
A		2015-12-08	AK
B	UPDATED MATRIX	2015-12-08	AK

Frame variant Manufactured from material with a minimum tensile strength of 340 N/mm ²	Component Certified	Open ended variation Suffixed 'O'	Back to back variation suffixed 'bth'	'O' and 'bth' variation	Bolted	Cast in concrete	Welded
RGS 60mm wide x 10mm thick flat bar	X	X	X				X
RGSF 60mm wide x 10mm thick flat bar	X	X	X	X		X	X
RGSC 60mm wide x 10mm thick flat bar	X	X	X				X
RGSK 120mm wide x 10mm thick flat bar 120mm wide x 12mm thick flat bar 60mm wide x 10mm thick flat bar	X	X	X				X
RGSR 60mm wide x 10mm thick flat bar	X	X	X	X			X
RGSCF	X		X			X	X
RGSKF	X	X				X	X
RGSRF	X	X	X			X	X
RGB	X	X				X	X
GG	X	X				X	X
RGsFB	X	X	X			X	X
RGsCFB	X		X			X	X
RGsKFb	X	X				X	X
RGsRFB	X	X	X			X	X



S Harrison

IECEX BAS 15.0107U
Baseefa15ATEX0162U

Ritad Draw	AK	151208	Kontr. Check	AK	151208	Granskad Reviewed	JF	151208	Godkänd Approv	BJ	151208	Tolerans för ej smält anges Tolerans uttrycks annarsvis när stiftad	Ytbehandl. för ej smält anges Särsk. info övrigt när stiftad	Material	Senad Assembly drawing no	Ersätter Replaces	Engitt av Registered of	Wikt Weight	E	Rev.



MATRIX
COMPONENT APPROVED
ATEX / IECEX FRAMES

Ritn. nr.
Draw. no
1160009

1 SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE

**2 Component Intended for use on/in an Equipment or Protective System
Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 Supplementary EU - Type Examination Certificate Number: Baseefa15ATEX0162U/2

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016

4 Product: RGB, RGG and RGS Range of multi cable transits

5 Manufacturer: MCT Brattberg AB

6 Address: SE-371 92 Karlskrona, Sweden

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8 SGS Baseefa, Notified Body number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

SGS Baseefa Customer Reference No. **5909**

Project File No. **16/0796**

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SGS Baseefa Limited

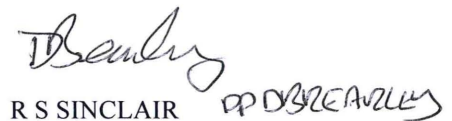
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TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa15ATEX0162U/2**

15 **Description of the variation to the Product**

Variation 2.1

To allow for an increase in diameter of the central circular hole of the 120 size insert block and 120 size EMC insert block, from the range 70mm to 90mm to the range 70mm to 110mm, in 2mm increments.

As a consequence of this variation, paragraph 'c' of the original product description will change to incorporate the new size of 120 block, this and will now read:

- c Insert blocks manufactured from Lycron A. These blocks have moulded semi-circular concave sections of fixed radius along their length, which when placed on top of each other form a square block of 20 to 120mm. The blocks have a central circular hole of fixed diameter, ranging from 4mm to 110mm depending on the block size, and when compressed form a seal around circular cables or pipes. These blocks together with their associated cables or pipes are assembled in rows inside the frame up to a specified height, with the block halves designated and marked 20/4 to 120/110. The blocks are uniquely marked on both faces with a green Ex designation surrounded by a green hexagon frame.

16 **Report Number**

Baseefa certification report GB/BAS/ExTR16.0311/00

17 **Schedule of Limitations**

8. Cables or pipes used with the block size range 120/92 to 120/110 shall be additionally clamped to ensure that pulling or twisting is not transmitted to any connections

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
1070357	1	D	16/10/26	INSERT BLOCKS 90 AND 120 ATEX
1160018	1	C	2016/10/25	INSERT BLOCKS EMC ATEX / IECEX

These drawings are held with IECEX 15.0107U and common to Baseefa15ATEX0162U, Baseefa 15ATEX0163X and IECEX BAS 15.0108X.