



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX BAS 15.0107U**

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Certificate history:

Status: **Current**

Issue No: 9

Issue 8 (2022-09-08)

Issue 7 (2021-04-22)

Issue 6 (2020-07-21)

Issue 5 (2019-02-04)

Issue 4 (2018-03-13)

Issue 3 (2017-03-28)

Issue 2 (2016-10-28)

Issue 1 (2016-06-13)

Issue 0 (2015-12-09)

Date of Issue: 2024-03-21

Applicant: **MCT Brattberg AB**
Karlskrona
SE 371-92
Sweden

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

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Increased Safety, Dust Protection by Enclosure**

Marking: **Ex eb IIC Gb**
Ex tb III C Db

Service Temperature (-60°C to +70°C)

Approved for issue on behalf of the IECEx
Certification Body:

M Powney

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

21/3/2024

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

SGS UK Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire SK17 9RZ
United Kingdom





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Manufacturer: **MCT Brattberg AB**
Karlskrona
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Manufacturing
locations: **MCT Brattberg AB**
Karlskrona
SE 371-92
Sweden

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/BAS/ExTR15.0249/00](#)
[GB/BAS/ExTR18.0061/00](#)
[GB/BAS/ExTR21.0031/00](#)

[GB/BAS/ExTR16.0043/00](#)
[GB/BAS/ExTR19.0028/00](#)
[GB/BAS/ExTR22.0139/00](#)

[GB/BAS/ExTR16.0311/00](#)
[GB/BAS/ExTR20.0109/00](#)
[GB/SGS/ExTR24.0033/00](#)

Quality Assessment Report:

[GB/BAS/QAR08.0009/10](#)



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Ex Component(s) covered by this certificate is described below:

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, and may be alternatively marked in black

A variation of the solid rubber 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, and may be alternatively marked in black

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 15 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 15/4 to 120/110. The blocks are uniquely marked on both faces with a green Ex designation surrounded by a green hexagon frame, and may be alternatively marked in black

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, and may be alternatively marked in black

Optional insert block called an AddBlock. The AddBlock which is manufactured from Lycron A, 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 grooves 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 plug, which allows for ease of modification to existing installations, these AddBlocks are uniquely marked on the both faces with green identification, and may be alternatively marked in black

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, and may be alternatively marked in black

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, and may be alternatively marked in black

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 using the specified EMI gasket as above
6. The fasteners of all variants shall be torqued up to 20Nm
7. Non-metallic surfaces shall be protected from electrostatic charging hazards



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8. Cables or pipes used with the block size range 15/4 to 15/9 and 120/92 to 120/110 shall be additionally clamped to ensure that pulling or twisting is not transmitted to any connections



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Variation 9.1

To introduce new PTG-40 corresponding 40mm wide frame.

ExTR: **GB/SGS/ExTR24.0033/00**

File Reference: **24/0053**