

1 **EU - TYPE EXAMINATION CERTIFICATE**

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

3 EU - Type Examination Certificate **Baseefa12ATEX0243X – Issue 1**
Number:

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: **Intrinsically Safe Coil with Circuit – Type 66 & Type 62
Low Power IS Coil – Type 71, Type 71L, Type 67 & Type 67L**

5 This certificate is held by: **ROTEX AUTOMATION LTD**

6 Address: **987/11, GIDC, Makarpura, Vadodara, Gujarat, 390010, India**

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa12ATEX0243X to apply to product 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 this product 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.

The examination and test results are recorded in confidential Report No. See Certificate History

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

EN IEC 60079-0:2018 EN 60079-11:2012

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

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

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

12 The marking of the product shall include the following :

See schedule

SGS Baseefa Customer Reference No. **6344**

Project File No. **17/0698**

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R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

D BREARLEY
Certification
Manager

13

Schedule

14

Certificate Number Baseefa12ATEX0243X – Issue 1

15 Description of Product

The **Intrinsically Safe Coil with Circuit** (Type 66 & Type 62) is designed to lift the plunger & to hold it up with low power, until the coil is de-energised.

The equipment consists of a metallic enclosure with metallic cover secured with socket head screws, within which the coil winding, terminal block & booster electronic circuit are encapsulated in epoxy.

Connections are made through the cable entry onto the connector block with screw terminals.

The **Low Power IS Coil** (Type 71, Type 71L, Type 67 & Type 67L) is designed to operate a solenoid, until the coil is de-energised.

The equipment consists of a metallic box type enclosure with metallic cover secured with socket head screws, within which the coil winding encapsulated in epoxy and terminal block are located.

Connections are made through the cable entry onto the connector block with screw terminals.

User Terminals for Type 62, 66, 67, 67L, 71 & 71L

$$U_i = 32\text{Vdc}$$

$$I_i = 230\text{mA}$$

$$P_i = 2.3\text{W}$$

$$C_i = 0$$

$$L_i = 0$$

⊕ I M1 Ex ia I Ma $(-60^{\circ}\text{C} \leq T_a \leq +75^{\circ}\text{C})$ Stainless Steel version only.

⊕ II 1G Ex ia IIC T5 Ga $(-60^{\circ}\text{C} \leq T_a \leq +75^{\circ}\text{C})$

⊕ II 1G Ex ia IIC T6 Ga $(-60^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C})$

⊕ II 1D Ex ia IIIC T₂₀₀ 125°C IP67 Da $(-60^{\circ}\text{C} \leq T_a \leq +75^{\circ}\text{C})$

16 Report Number

See Certificate History

17 Specific Conditions of Use

1. The aluminium enclosure version must be mounted in such a manner as to eliminate the risk of sparks caused by friction or impact from iron/steel.
2. Only suitably certified cable glands shall be used with this equipment

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
11-BASEEFA-10401	1 of 1	3	3-06-2018	IS coil with circuit – Size-III Type-66 Size IV, Type-62
11-BASEEFA-10403/AL	1 of 1	5	28.02.2018	Name plate for IS Solenoid (Al enclosure)
11-BASEEFA-10403/SS	1 of 1	5	28.02.2018	Name plate for IS Solenoid (SS enclosure)
11-BASEEFA-30501-1	1 of 1	5	30-06-2018	Low Power IS Coil (Bottom Cable Entry) Type-71 (IEC Ex ia)
11-BASEEFA-30601-1	1 of 1	3	04.05.2018	Low Power IS Coil (Horizontal Cable Entry) Type-67 (IEC Ex ia)

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
11-BASEEFA-10406	1 of 7	1	04.12.2012	Intrinsically Safe Solenoid Coil Driver Circuit
11-BASEEFA-10406	2 of 7	1	04.12.2012	Intrinsically Safe Solenoid Coil Driver Circuit (Parts List)
11-BASEEFA-10406	3 of 7	0	04.12.2012	AB-PCB-322 Component Side
11-BASEEFA-10406	4 of 7	0	04.12.2012	AB-PCB-322 Solder Side
11-BASEEFA-10406	5 of 7	0	04.12.2012	AB-PCB-322 Solder Side Screen
11-BASEEFA-10406	7 of 7	0	04.12.2012	AB-PCB-322 Component Side Screen
11-BASEEFA-10407	1 to 2	0	04.12.2012	Low Power IS PCB
11-BASEEFA-30503	1 of 1	0	04.12.2012	Low Power IS Coil (Circuit Diagram)

20 Certificate History

Certificate No.	Date	Comments
Baseefa12ATEX0243X	17 January 2013	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2012 & EN 60079-11:2012 is documented in Test Report No. GB/BAS/ExTR12.0308/00 for Project 09/0496.
Baseefa03ATEX0123X Issue 1	13 August 2018	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN IEC 60079-0:2018 including the revision of the equipment marking in accordance with this standard. An alternative enclosure material is also permitted. The assessment is recorded in test report GB/BAS/ExTR18/0096/00 for Project 17/0698.
For drawings applicable to each issue, see original of that issue.		