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interamente versato
Codice fiscale e numero
iscrizione C.C.I.A.A. 00793580150

Registro Imprese di Milano
Sezione Ordinaria
N. R.E.A. 429222
P.I. IT00793580150

Schema di certificazione

CESI-ATEX

EC-TYPE EXAMINATION CERTIFICATE

- [1] **Equipment or Protective System intended for use in potentially explosive atmospheres**
Directive 94/9/EC
- [2] EC-Type Examination Certificate number:
CESI 03 ATEX 344
- [3] **Equipment:** Explosion Proof Solenoid with Junction Box & LED
Size I/II/III/IV
- [4] **Manufacturer:** Rotex Automation Limited
- [5] **Address:** 987/11, GIDC, Makarpura
Vadodara 390010
India

- [6] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [7] CESI, notified body no. 0722 in accordance with 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 and protective systems 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. EX-A3/028889.

- [8] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 + A1..A2

EN 50018: 2000 + A1

- [9] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- [10] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- [11] The marking of the equipment or protective system shall include the following:

II 2 G

EEx d IIC T4 or T5 or T6

II 2 D

IP 66 T135°C or T100°C or T85

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date December 22, 2003 - Translation issued the December 22, 2003

Prepared
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Verified
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CESI
CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO
Business Unit Certificazione

SV/Responsabile

Il CESI è stato autorizzato dal governo italiano ad operare quale organismo di certificazione di apparecchi e sistemi destinati a essere utilizzati in atmosfera potenzialmente esplosiva con D.M. 1/3/1983, D.M. 19/6/1990, D.M. 20/7/1998 e D.M. 27/9/2000

Schedule

[13]

[14] EC-TYPE EXAMINATION CERTIFICATE no. CESI 03 ATEX 344

[15] Description of equipment

The explosion proof solenoid with junction box and LED size I/II/III/IV, made in light metals or stainless steel, are used for operator of the valve. They are identified by the following code:

Type	36-01	with cable entry 3/4"
	37-01	with cable entry 1/2"
	39-01	with cable entry M20 x 1,5

Electrical characteristics

- Rated voltage: 6, 12, 24, 27, 38, 42, 48, 72, 110, 125, 220, 240, 256, 440 [V_{d.c.}/V_{a.c.}]
voltage variation $\pm 20\%$
- Rated frequency: 50 or 60 Hz $\pm 5\%$
- Maximum dissipable power: 20 W
- Degree of protection: IP 66 (EN 60529)
- Ambient temperature: -40 \div +60 °C for temperature class T4 or T135°C
-40 \div +50 °C for temperature class T5 or T100°C
-40 \div +35 °C for temperature class T6 or T35°C

The accessories used for cable entries shall be certified in accordance with EN 50014, EN 50018 and EN 50281-1-1 standards, shall guarantee a degree of protection IP 66 at least and shall be suitable for the operating temperature of the solenoids.

Warning label

Use cables suitable for operating temperature ≥ 80 °C

[16] Report no. EX-A3/028889.

Routine tests

The Manufacturer must carry out the routine tests specified in paragraph 24 of EN 50014 Standard and at paragraph 16 of EN 50018 Standard. The routine overpressure test shall be carried out, on the brazing joint of the core, at 15,3 [bar] with the static method (par. 15.1.3.1 of EN 50018 Standard).

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Schedule

[13]

[14] **EC-TYPE EXAMINATION CERTIFICATE** no. CESI 03 ATEX 344

Descriptive documents (prot. EX-A3/044550)

- no. Technical Notes	TF/C/0031	Rev. 0	06.04.2004
- no. EC Declaration of Conformity		Rev. 0	30.01.2004
- no. Instruction Manual	IM/C/0001	Rev. 0	26.01.2004
- no. Name Plate for FPJB Solenoid Size - I / II / III	WN-1414-ATEX	Rev. 0	01.04.2004
- no. Name Plate for FPJBND Solenoid - Size - I	090-01-10-12-ATEX	Rev. 0	01.04.2004
- no. GA Drawing - FPJB with LED Horizontal Cable Entry Size - I / II / III	11-ATEX 1101	Rev. 0	23.01.2004
- no. Drawing - FPJB Coil Housing - Size I	11-ATEX 1102	Rev. 0	23.01.2004
- no. Drawing - Cover-FPJB-Horizontal - Size - I / II / III	11-ATEX 1103	Rev. 0	23.01.2004
- no. Drawing - LED Housing Size - I / II / III	11-ATEX 1104	Rev. 0	23.01.2004
- no. Drawing - LED Capsule	11-ATEX 1105	Rev. 0	23.01.2004
- no. GA Drawing - FPJBND with LED - Size I	11-ATEX 1201	Rev. 0	23.01.2004
- no. Drawing - FPJBND Coil Housing - Size I	11-ATEX 1202	Rev. 0	23.01.2004
- no. Drawing - Top Cover - FPJBND - Size I	11-ATEX 1203	Rev. 0	23.01.2004
- no. Drawing - Bottom Cover FPJBND - Size I	11-ATEX 1204	Rev. 0	23.01.2004
- no. Drawing - FPJB Solenoid Housing - Size II	11-ATEX 2102	Rev. 0	23.01.2004
- no. Drawing - FPJB Solenoid Housing - Size III	11-ATEX 3102	Rev. 0	23.01.2004

One copy of all documents is kept in CESI files.

[17] **Special conditions for safe use**

None.

[18] **Essential Health and Safety Requirements**

Assured by compliance with Standards.