



[1] **EC-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protective Systems or Component Intended for use
in Potentially explosive atmospheres
Directive 94/9/EC**

[3] EC-Type Examination Certificate number:

CESI 01 ATEX 023

[4] Equipment: Limit switch series LS

[5] Manufacturer: **COELBO s.r.l.**

[6] Address: Viale Lombardia 298/300, Brugherio (Milano) - Italy

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CESI, notified body n° 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 n° EX-A1/011259.

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

EN 50014: 1997 + A1..A2 EN 50018: 2000 EN 50281-1-1:1999

[10] 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.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance with 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.

[12] The marking of the equipment or protective system shall include the following:

II 2 GD EEx d IIB + H2 T6 IP 65 T85°C

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date April 4th, 2001 translation issued on April 4th, 2001

prepared CERT - M. Balaz

approved CERT - U. Colombo

CESI

CENTRO ELETTROTECNICO SPERIMENTALE ITALIANO
Responsabile Area Certificazione

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Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE N° CESI 01 ATEX 023**

[15] Description of equipment

Limit switch series LS.

Electrical characteristics

- Maximum rated voltage : 500 V a.c. ; 250 V d.c.
- Maximum rated current : 10 A
- Rated frequency : 50/60 Hz
- Degree of protection : IP 65

Temperature class - GAS

- T6 for ambient temperature - 20 ÷ + 40°C
- N. of operations / hour : no limits

- 65°C for ambient temperature - 20 ÷ + 40°C
- N. of operations / hour : 600

Maximum surface temperature T of the enclosure - DUST

- T85 °C for ambient temperature -20 ÷ + 40°C
- N. of operations / hour : no limits

- T65°C for ambient temperature -20 ÷ + 40°C
- N. of operations / hour : 600

The accessories used for the cable entry and for closing unused holes shall guarantee a degree of protection IP 65 and shall be certified according to the standards EN 50014, EN 50018 and EN 50281-1-1.

Warning label

None

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Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE N° CESI 01 ATEX 023**

[16] Report N° EX-A1/011259

Routine tests

The manufacturer shall carry out the routine tests prescribed at clause 24 of the EN 50014 standard.
The manufacturer is exempted from the routine overpressure test on the limit switches series LS since the apparatus has passed the type test performed with the static method at a pressure of 24 bar, equal to 4 times the reference pressure.

Descriptive documents (prot. EX-A1/011263)

- n° 5473/2Rev. 2	dated	02.02.2001
- n° 5471/1Rev. 1	dated	10.02.1999
- n° 5472/1Rev. 1	dated	10.02.1999
- n° 5474/1 rev.1 (4 sheets)	dated	10.02.1999
- n° 5476/1Rev. 1	dated	25.07.2000
- n° 5477/1Rev. 1	dated	25.07.2000
- n° 5478/2Rev. 2	dated	25.07.2000
- n° 5479/2Rev. 2 (6 sheets)	dated	25.07.2000
- Safety Instructions (4 sheets)	dated	15.11.200

One copy of all documents is kept in CESI files.

[17] Special conditions for safe use

None.

[18] Essential Health and Safety Requirements

Covered by standards

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