

EU - Type Examination Certificate

- (1)
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU
- (3) EU - Type Examination Certificate Number
- EPS 14 ATEX 1 744 X**
- Revision 1**
- (4) Equipment: Explosion protected solenoid series EX18 046 XXXX
- (5) Manufacturer: Schienle Magnettechnik + Elektronik GmbH
- (6) Address: In Oberwiesen 3
88682 Salem
Germany
- (7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.
- (8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment 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 of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 14TH0278.
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-7:2015

EN 60079-18:2015

EN 60079-31:2014

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.
- (11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

AC-Version

DC-Version

I M2 Ex mb I Mb

I M2 Ex eb mb I Mb



II 2G Ex mb IIC T4 T5 T6 Gb



II 2G Ex eb mb IIC T4 T5 T6 Gb

II 2D Ex mb IIIC T135°C T100°C T85°C Db

II 2D Ex tb IIIC T135°C T100°C T85°C Db



Certification department of explosion protection

Hamburg, 2019-10-11

H. Schaffer

(13)

Annex

(14) EU - Type Examination Certificate EPS 14 ATEX 1 744 X

Revision 1

(15) Description of equipment:

The explosion protected solenoid series EX18 046 XXXX is an electromagnetic coil system which is used in the industry for linear or proportional switching of a valve or mechanical devices. The electrical energy is transformed via electromagnetic energy to a mechanical force. That linear movement is used for switching valves or other similar designed systems.

Electrical data:

Rated voltage: 12 V – 110 V DC
110 V – 230 V AC

Rated power: 10 W – 18 W

(16) Reference number: 14TH0278

(17) Special conditions for safe use:

Ambient temperature range:

-40°C ≤ T_{amb} ≤ +70°C at temperature class T4 and power PN=10W
-40°C ≤ T_{amb} ≤ +55°C at temperature class T5 and power PN=10W
-40°C ≤ T_{amb} ≤ +45°C at temperature class T6 and power PN=10W
-40°C ≤ T_{amb} ≤ +60°C at temperature class T4 and power PN=18W

(18) Essential health and safety requirements:

Met by compliance with standards.

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Hamburg, 2019-10-11



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