(1) # EC-TYPE-EXAMINATION CERTIFICATE

(2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 94/9/EC**

(3) EC-Type-Examination Certificate Number

TÜV 08 ATEX 7522

(4) Equipment: **Safety relay module: SRB101EXi-1A / SRB200EXi-1A / SRB101EXi-1R / SRB200EXi-1R**

(5) Manufacturer: **Elan Schaltelemente GmbH & Co. KG**

(6) Address: **Im Ostpark 2, 35435 Wettenberg**

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV CERT-Zertifizierungsstelle for ex-protected products of TÜV Rheinland Industrie Service GmbH, TÜV Rheinland Group, notified body No. 0035 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies 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 atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 194/Ex522.00/08

Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0: 2006; EN 60079-11: 2007;
EN 61241-0: 2006; EN 61241-11: 2006

(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 schedule to this certificate.

(11) This EC-Type-Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:

Ex II (2) GD [Ex ib] / [Ex ibD] IIC

TÜV CERT-Zertifizierungsstelle für Explosionsschutz

Cologne, 10.04.2008

Dipl.-Ing. K. Wettingfeld

This EC-type-Examination Certificate without signature and stamp shall not be valid.
This EC-type-examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Cert-Zertifizierungsstelle für Ex-Schutz-Produkte
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

www.tuv.com

TÜVRheinland®
Genau. Richtig.

TÜVRheinland®
Precisely Right.

(13) Annex

(14) # EC-Type Examination Certificate
TÜV 08 ATEX 7522

(15) **Description of equipment**

15.1 **Equipment and type:**

Safety relay module SRB101EXi-1A / SRB200EXi-1A / SRB101EXi-1R / SRB200EXi-1R

15.2 **Description:**

The safety relay module type SRB-ATEX is a relay module, which signal inputs are intrinsically safe according to EN 60079-11. The SRB-ATEX is able as associated apparatus to analyse data sent by sensors which are located in an ex-zone 2, 22, 1 or 21. The SRB-ATEX relay module is an associated apparatus and must be installed outside a zone in a suitable control box or control cabinet.

For the possibility to install the equipment in a zone 2 please refer to the separate Type Examination Certificate TÜV 08 ATEX 7557 X

15.3 **Technical Data**

Voltage supply:	24 V DC, 100 mA (max.)
Safety relevant maximum voltage, U_m:	253 V
Contact current loops/ enabling pathes	250 V AC, 3 A
Rated ambient temperature range:	-25°C up to +60°C

Intrinsically safe values for the associated apparatus with protection level [Ex ib] / [Ex ibD] IIC, linear source
Uo = 33,6 V
Io = 57 mA
Po = 478,8 mW

The following maximum Lo and Co values may act together

Explosion group	II C				II B					
Capacitance Co [nF]	26	36	46	49	160	180	230	280	350	412
Inductivity Lo [mH]	4,0	2,0	1,0	0,5	38,0	5,0	2,0	1,0	0,5	0,2

TÜVRheinland®
Precisely Right.

(16) Test Report No:. 194/Ex 522/00/08

(17) Special Conditions for safe use

none

(18) Basic Safety and Health Requirements

Covered by afore mentioned standards

TÜV CERT-Zertifizierungsstelle

Köln, den 10.04.08

Dipl.-Ing. Klaus Wettingfeld

1st Supplement

acc. to directive 94/9/EC, Appendix III, No 6

to the EC-Type Examination Certificate

TÜV 08 ATEX 7522

Device:	**Safety relay module:** **SRB101EXi-1A ; SRB200EXi-1A** **SRB101EXi-1R ; SRB200EXi-1R**
Manufacturer:	K.A. Schmersal GmbH & Co. KG
Address:	Möddinghofe 30, D – 42279 Wuppertal, Germany

Description of supplements and modifications:

Safety relay module: SRB101EXi-1A ; SRB200EXi-1A; SRB101EXi-1R and SRB200EXi-1R.

(15) The following modifications are valid for this 1st supplement

Standard basis EN 60079- 0: 2012, EN 60079- 11: 2012

Code for type of protection

- II (2) G [Ex ib Gb] IIC
- II (2) D [Ex ib Db] IIIC

The content of 1st Supplement is:

- New Manufacturer's designation K.A. Schmersal GmbH & Co. KG (by fusion with the previous manufacturer ELAN Schaltelemente GmbH & Co).
- The components were evaluated based on the current standards, the marking was adjusted.
- The manual has been adapted.

All other parameters of equipment are unchanged.

Technical data

All other data unchanged.

(16) Test Report No. 557 / Ex 522.02 / 13

(17) Special conditions for safe use

The original certificate has to be observed.

(18) Basic Safety and Health Requirements
Covered by mentioned standards in the original certificate.

TÜV Rheinland Certification Body
for explosion protected equipment

Cologne, 8th October 2013

Dipl.-Ing. Klauspeter Gräffi