



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 17 ATEX 1 167 X

Revision 0

(4) Equipment: Segment coupler SC11Ex-3G

(5) Manufacturer: Hans Turck GmbH & Co. KG

(6) Address: Witzlebenstraße 7
45472 Mülheim an der Ruhr
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 16TH0312.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013

EN 60079-7:2015

EN 60079-11:2012

(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.

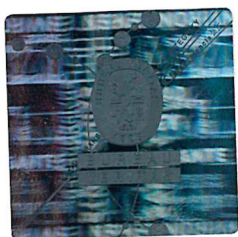
(11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

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



II 3 (2) G Ex ec ic [ib Gb] IIC T4 Gc

II (2) D [Ex ib Db] IIIC



Certification department of explosion protection

Nuremberg, 2018-09-18

H. Schaffer



(13)

Annex

(14) **EU - Type Examination Certificate EPS 17 ATEX 1 167 X****Revision 0**(15) Description of equipment:

The device is intended exclusively for use in the industrial sector. The SC11Ex-3G segment coupler converts standard RS485 signals to intrinsically safe RS485-IS signals. The device supports PROFIBUS-DP and Modbus RTU protocols. The RS485-IS interface complies with the requirements of the PROFIBUS guideline of the PNO. By interconnecting several segment couplers, line, system or slave redundancy can be realized.

Electrical data:

Supply voltage:	U_{nom}	= 24 VDC
	U_{max}	= 40 V
Power consumption:	P_{max}	= 4.0 W
Profibus-IS (Ex):	U_o	= 4.2 V
	U_i	= 4.2 V
	I_o	= 148 mA
	P_o	= 155 mW, linear output characteristic
	L_i, C_i	negligible
Profibus-DP (non-Ex):	U_{nom}	= 5.0 V
	U_{max}	= 40 V
Link (Ex):	U_o	= 4.2 V
	I_o	= 5 mA
	P_o	= 5 mW, linear output characteristic
	U_{max}	= 4.2 V
	L_i, C_i	negligible

Ambient temperature range: $-40\text{ °C} \leq T_{amb} \leq +70\text{ °C}$ (16) Reference number: 16TH0312(17) Special conditions for safe use:

When used in potentially explosive atmospheres, the device shall only be installed in an enclosure that provides a minimum protection of IP54 in accordance to EN 60079-0.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Nuremberg, 2018-09-18



Page 2 of 2

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH. EPS 17 ATEX 1 167 X, Revision 0.