

Translation

(1) **EU-Type Examination Certificate**

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(3) **Certificate Number** TÜV 19 ATEX 242106 **issue:** 00

(4) for the product: Signal box type 827 S.

(5) of the manufacturer: **ARCA Regler GmbH**

(6) Address: Kempener Strasse 18
47918 Tönisvorst
Germany

Order number: 8003004484

Date of issue: 2019-08-19


- (7) The design of this product and any acceptable variation thereto are specified in the schedule to this EU-Type Examination Certificate and the documents therein referred to.
- (8) The TÜV NORD CERT GmbH, Notified Body No. 0044, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential ATEX Assessment Report No. 19 203 242106.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-11:2012

except in respect of those requirements listed at item 18 of the schedule.

- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions for Use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design, and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the product shall include the following:

 **II 1 G Ex ia IIC T6...T1 Ga**

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body

Roder

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(13) **SCHEDULE**

(14) **EU-Type Examination Certificate No. TÜV 19 ATEX 242106 issue 00**

(15) Description of product

The signal box 827 S. X ** is used to indicate the valve position of lifting and swivel valves by means of one or two inductive contacts (proximity switches), which give a signal when the adjustable limit values are exceeded or not reached.



Electrical and thermal data

Evaluation and supply circuit
(Terminals +41/-42 resp. +51/-52)

In type of protection intrinsic safety Ex ia IIC
Only for the connection to certified intrinsically safe circuits.

Maximum values per circuit:

Type 1
U_i = 16 V
I_i = 25 mA
P_i = 34 mW

Type 2
U_i = 16 V
I_i = 25 mA
P_i = 64 mW

Type 3
U_i = 16 V
I_i = 52 mA
P_i = 169 mW

Type 4
U_i = 16 V
I_i = 76 mA
P_i = 242 mW

The permissible ambient temperature for the use of the Signal box Type 827 S. X** as EPL Ga equipment is between -30 °C and a maximum temperature arising from the temperature class required at the place of installation, the effective internal capacitances and inductances and the maximum input data.

Type	C _i [nF]	L _i [µH]	Type 1			Type 2			Type 3			Type 4		
			Maximum permissible ambient temperature in °C for use in temperature class											
			T6	T5	T4-T1	T6	T5	T4-T1	T6	T5	T4-T1	T6	T5	T4-T1
827S.X11	150	150	+73	+80	+80	+65	+80	+80	+45	+60	+80	+30	+45	+54
827S.X12	30	100	+73	+80	+80	+66	+80	+80	+45	+60	+80	+30	+45	+74
827S.X21	150	150	+73	+80	+80	+65	+80	+80	+45	+60	+80	+30	+45	+54
827S.X22	30	100	+73	+80	+80	+66	+80	+80	+45	+60	+80	+30	+45	+74

(16) Drawings and documents are listed in the ATEX Assessment Report No. 19 203 242106

Schedule to EU-Type Examination Certificate No. TÜV 19 ATEX 242106 issue 00

- (17) Specific Conditions for Use
None
- (18) Essential Health and Safety Requirements
No additional ones

- End of Certificate -