



## 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 12 ATEX 085253 X **Issue:** 04

(4) for the product: Electropneumatic positioner ARCAPRO type 827A

(5) of the manufacturer: **ARCA-REGLER GmbH**

(6) Address: Kempener Str. 18  
47918 Tönisvorst  
Germany

Order number: 8003059502

Date of issue: See signature

(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. 23 203 350721.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018/AC:2020-02**

**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 2 G Ex ia IIC T6...T4 Gb or  
II 3 G Ex ic IIC T6...T4 Gc

TÜV NORD CERT GmbH, Am TÜV 1, 45307 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

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(13) **SCHEDULE**

(14) **EU-Type Examination Certificate TÜV 12 ATEX 085253 X Issue 04**

(15) **Description of product**

The explosion proof electropneumatic positioner ARCAPRO serves as a coupling assembly between electrical controllers or control devices and pneumatic actuators. Together with the pneumatic actuator, it forms a control loop in which the actual value x is the position of the actuator stem for linear actuators or the position of the actuator shaft for rotary actuators and the reference variable is the control current of a controller or a manual control station from 0/4 to 20 mA. This signal is transmitted analog or via 2-wire HART or PA or FF communication. From the comparison of the setting and actual value, the microcontroller generates pneumatic actuation increments, which are applied to the drive via piezo-controlled valves. The volume of the drive integrates the setting increments to the signal pressure y, which moves the drive rod or the drive shaft in approximately proportional fashion.

The pneumatic drives are available in single and double-acting versions. In the single-acting version, only one volume is ventilated, and the pressure generated works against a spring. In the double-acting version, two volumes work against each other; when one volume is ventilated, the counter volume is vented.

The basic unit can be output with a position feedback AOM, which means that the manipulated variable y (valve position) is output as current (4-20 mA).

**Built-in basic electronics and their dependencies on other equipment features**

1	2	3	-	4	5	6	-	7	8	9	-	10	-	11
827A.	a	b	-	c	d	e	-	f	g	h	-	i	-	j

Built-in basic electronics	Dependent on type of explosion protection <b>Index (a)</b>	Dependent on type of basic device connection <b>Index (b)</b>	Dependent on type of communication <b>Index (e)</b>	Dependent on type of options <b>Index (j)</b>	
2-Wire / Ex PCBA-No.: C73451-A430-L250 (ARCA No. 2255289) or PCBA-No.: A5E51252080 (coated version) (ARCA No. 3175367) or PCBA-No.: A5E49830025 (ARCA No. 3175008) or PCBA-No.: A5E52161392 (coated version) (ARCA No. 3182042)	<b>X = Ex i (IS)</b>	<b>2 = 2 wire</b>	<b>0 = Without</b>	If Operation with natural gas <b>NG</b> then <b>a = X</b>	<b>or</b>
2-Wire / HART / Ex PCBA-No.: A5E50576243 (ARCA No. 3175010) or PCBA-No.: A5E52164428 (coated version) (ARCA No. 3182044)	<b>X = Ex i (IS)</b>	<b>2 = 2 wire</b>	<b>H = HART</b>	If Operation with natural gas <b>NG</b> then <b>a = X</b>	<b>or</b>
2-/3-/4-Wire / HART / Ex PCBA-No.: C73451-A430-L200 (ARCA No. 2255288) or PCBA-No.: A5E44298157 (coated version) (ARCA No. 3175363)	<b>X = Ex i (IS)</b>	<b>4 = 2/3/4 wire</b>	<b>H = HART</b>	If Operation with natural gas <b>NG</b> then <b>a = X</b>	<b>or</b>
Profibus (PA) / Ex PCBA-No.: A5E00095037 (ARCA No. 2264815) or PCBA-No.: A5E44541826 (coated version) (ARCA No. 3175364)	<b>X = Ex i (IS)</b>	<b>2 = 2 wire</b>	<b>P = Profibus PA</b>	If Operation with natural gas <b>NG</b> then <b>a = X</b>	<b>or</b>
Foundation Fieldbus (FF) / Ex PCBA-No.: A5E00164801 (ARCA No. 3003862) or PCBA-No.: A5E51252093 (coated version) (ARCA No. 3175369)	<b>X = Ex i (IS)</b>	<b>2 = 2 wire</b>	<b>F = Foundation Fieldbus</b>	If Operation with natural gas <b>NG</b> then <b>a = X</b>	

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Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH

## Schedule to EU-Type Examination Certificate TÜV 12 ATEX 085253 X Issue 04

### Enclosure types

1	2	3	-	4	5	6	-	7	8	9	-	10		11
827A.	a	b	-	c	d	e	-	f	g	h	-	i	-	j

Enclosure type	ARCA Index (f)
Aluminum (SA)	M
Stainless steel	E
Aluminum (SA+DA)	A

### Further equipment features

1	2	3	-	4	5	6	-	7	8	9	-	10		11
827A.	a	b	-	c	d	e	-	f	g	h	-	i	-	j

<b>Optional modules installed</b> Index (c)	0, A
<b>Limit monitor installed</b> Index (d)	0, B, S, K, D, I, M
<b>Enclosure</b> Index (f)	M, E, A
<b>Pneumatics</b> Index (g)	1, 2
<b>Position detection</b> Index (h)	0, 1, 2
<b>Connection thread electrical / pneumatic</b> Index (i)	G, N, M, P, R, S
<b>Order Codes</b> Index (j)	FIP, LT, SA, SB, SS, SW, NG, BT

### Type designation, Type code Optional built-in modules

1	2	3	-	4	5	6	-	7	8	9	-	10		11
827A.	a	b	-	c	d	e	-	f	g	h	-	i	-	j

Designation	Type number	Controlled by type code
Binary Module (DIO)	6DR4004-6A C73451-A430-L2, RS-11/018	Index (d) = B
Digital I/O Module (DIO-2)	6DR4004-6A A5E52635850, RS-AA/001	Index (d) = D
Slot-type initiator module (ILS)	6DR4004-6G A5E00068028, RS-04/007	Index (d) = S
Contact module (ILS-2)	6DR4004-6G A5E52635888, RS-AA/001	Index (d) = I
Mechanic Limit Switches (MLS)	6DR4004-6K A5E00303739, RS-02/007	Index (d) = K
Mechanic Limit Switches (MLS-2)	6DR4004-6K A5E52659309, RS-AA/001	Index (d) = M

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Designation	Type number	Controlled by type code
Analog Output Module (AOM)	6DR4004-6J A5E52424383, RS-AA/002	Index (c) = A
	6DR4004-6J A5E44681475, RS-AA/003	
Analog Input Module (AIM)	6DR4004-6F A5E42389097, RS-AC/003	Index (h) = 2
Internal NCS module (iNCS)	6DR4004-5LE A5E35383917, RS-AB/009	Index (h) = 1

**Maximum permissible ambient temperature ranges ARCAPRO Type 827A**

<b>Electropneumatic Positioner ARCAPRO 827A 827A.ab-cde-fgh-i-j</b> with types of protection Ex ia/ic		
	<b>Temperature class T4</b>	<b>Temperature class T6</b>
No exceptions on the full scope of the Ex-approved equipment features.	-30 °C ≤ Ta ≤ +80 °C	-30 °C ≤ Ta ≤ +50 °C
with the data (j = LT)	-40 °C ≤ Ta ≤ +80 °C	-40 °C ≤ Ta ≤ +50 °C
with the data (c = 0) and (h = 2) and T6: (h ≠ 1)	-30 °C ≤ Ta ≤ +80 °C	-30 °C ≤ Ta ≤ +60 °C
with the data (e ≠ P, F) and (c = 0) and (h = 2) and (j = LT) and T6: (h ≠ 1)	-40 °C ≤ Ta ≤ +80 °C	-40 °C ≤ Ta ≤ +60 °C

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### Maximum permissible electrical ratings

<b>Basic electronic, 827A.X2...</b> <b>2-wire, 4...20 mA, without HART communication</b> Marking on the PCBA: C73451-A430-L250 or A5E49830025 or A5E51252080 (coated version) , A5E52161392 (coated version)					
<b>Auxiliary power supply / control current 4...20 mA</b> <ul style="list-style-type: none"> <li>Terminals 6(+) and 7/8(-) if PCBA C73451-A430-L250 or A5E51252080 (coated version)</li> <li>Terminals 6(+) and 7(-) if PCBA A5E49830025 or A5E52161392 (coated version)</li> </ul>	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	30 V	100 mA	1 W	11 nF	209 µH
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	30 V	100 mA		11 nF	209 µH
<b>Digital input galvanically connected to auxiliary power supply / control current</b> <ul style="list-style-type: none"> <li>Terminals 9(+) and 10(-)</li> <li>Jumpered or connected to switch contact</li> </ul>					

<b>Basic electronic 827A.X2-**H...</b> <b>2-wire, 4...20 mA, HART communication</b> Marking on the PCBA: A5E50576243 or A5E52164428 (coated version)					
<b>Auxiliary power supply / control current 4...20 mA</b> <ul style="list-style-type: none"> <li>Terminals 6(+) and 7(-)</li> </ul>	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	30 V	100 mA	1 W	11 nF	209 µH
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	30 V	100 mA		11 nF	209 µH
<b>Digital input galvanically connected to auxiliary power supply / control current</b> <ul style="list-style-type: none"> <li>Terminals 9(+) and 10(-)</li> <li>Jumpered or connected to switch contact</li> </ul>					

<b>Basic electronic 827A.X4-**H...</b> <b>2- / 3- / 4- wire, 4...20 mA, HART communication</b> Marking on the PCBA: C73451-A430-L200 or A5E44298157 (coated version)					
<b>Auxiliary power supply / control current 4...20 mA</b> <ul style="list-style-type: none"> <li>Jumper between terminal 6 and 4/5</li> <li>Control current connection terminals 3(+) and 7/8(-)</li> </ul>	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	30 V	100 mA	1 W	11 nF	312 µH
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
<b>3/4-wire basic device with HART</b> <ul style="list-style-type: none"> <li>Auxiliary power supply 18...30 V</li> <li>Terminals 2(+) and 4/5(-)</li> </ul>	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	30 V	100 mA		11 nF	312 µH
<b>Control current 4...20 mA</b> <ul style="list-style-type: none"> <li>Terminals 6(+) and 7/8(-)</li> <li>4-wire: auxiliary power supply and control current electrical isolated</li> <li>3-wire: common base point terminals 4/5 and 7/8</li> </ul>	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	30 V	100 mA		11 nF	312 µH
<b>Digital input galvanically connected to auxiliary power supply / control current</b> <ul style="list-style-type: none"> <li>Terminals 9(+) and 10(-)</li> <li>Jumpered or connected to switch contact</li> </ul>					

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<b>Basic electronic</b>				
<b>Profibus (PA) communication, 827A.X*-**P...</b>				
marking on the PCBA: A5E00095037, A5E44541826 (coated version)				
<b>Foundation Fieldbus (FF) communication, 827A.X*-**F...</b>				
marking on the PCBA: A5E00164801, A5E51252093 (coated version)				
<b>PA/FF bus circuit</b> • Terminals 6(+) and 7(-)	<b>Type of protection: Ex ia</b> For supply with a certified FISCO power supply. Maximum values:			
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>
	17.5 V	380 mA	5.32 W	(*1)
	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:			
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>
	24 V	250 mA	1.2 W	(*1)
	<b>Type of protection: Ex ic</b> For supply with a FISCO power supply. Maximum values:			
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>
	17.5 V	570 mA		(*1)
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:			
<b>U<sub>i</sub></b>			<b>C<sub>i</sub></b>	
32 V			(*1)	
<b>Safe input</b> • Terminals 81(+) and 82(-) • Galvanically safe isolated from PA/FF bus circuit and digital input	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:			
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>
	30 V	100 mA	1 W	(*1)
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:			
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>
	30 V	100 mA		(*1)
<b>Digital input galvanically connected to auxiliary power supply / control current</b> • Terminals 9(+) and 10(-) • Jumpered or connected to switch contact				

(\*1 = values negligibly small)

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<b>Option Module:</b> Binary Module, marked by <b>DIO</b> , Type 6DR4004-6A built in ARCAPRO 827A.**-*B...					
<b>Digital output circuits</b> <ul style="list-style-type: none"> <li>Terminals           <ul style="list-style-type: none"> <li>31(+) and 32(-)</li> <li>41(+) and 42(-)</li> <li>51(+) and 52(-)</li> </ul> </li> <li>Galvanically safe isolated from all other circuits</li> </ul>	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	15 V	25 mA	64 mW	5.2 nF	(*1)
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	15 V	25 mA		5.2 nF	(*1)
<b>Digital input circuits</b> <ul style="list-style-type: none"> <li>Terminals 11(+) and 12(-)</li> <li>Galvanically safe isolated from all other circuits</li> </ul>	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Or <b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>			<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	25.2 V			(*1)	(*1)
	<b>Digital input galvanically connected to auxiliary power supply / control current</b> <ul style="list-style-type: none"> <li>Terminals 21(+) and 22(-)</li> <li>Jumpered or connected to switch contact</li> </ul>				

(\*1 = values negligibly small)

<b>Option Module:</b> Digital I/O Module, marked by <b>DIO-2</b> , Type 6DR4004-6A, A5E52635850 built in ARCAPRO 827A.**-*D...					
<b>Digital output circuits</b> <ul style="list-style-type: none"> <li>Terminals           <ul style="list-style-type: none"> <li>31(+) and 32(-)</li> <li>41(+) and 42(-)</li> <li>51(+) and 52(-)</li> </ul> </li> <li>Galvanically safe isolated from all other circuits</li> </ul>	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	17.5 V	100 mA	250 mW	5.2 nF	(*1)
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	17.5 V	100 mA		5.2 nF	(*1)
<b>Digital input circuits</b> <ul style="list-style-type: none"> <li>Terminals 11(+) and 12(-)</li> <li>Galvanically safe isolated from all other circuits</li> </ul>	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Or <b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>			<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	32 V			(*1)	(*1)
	<b>Digital input galvanically connected to auxiliary power supply / control current</b> <ul style="list-style-type: none"> <li>Terminals 21(+) and 22(-)</li> <li>Jumpered or connected to switch contact</li> </ul>				

(\*1 = values negligibly small)

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<b>Option Module:</b> Slot-type initiator module, marked by <b>ILS</b> , Type 6DR4004-6G built in ARCAPRO 827A.**-*S...					
<b>Digital output (fault signal)</b> <ul style="list-style-type: none"> <li>Terminals 31(+) and 32(-)</li> </ul>	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b><math>U_i</math></b>	<b><math>I_i</math></b>	<b><math>P_i</math></b>	<b><math>C_i</math></b>	<b><math>L_i</math></b>
	15 V	25 mA	64 mW	5.2 nF	(*1
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b><math>U_i</math></b>	<b><math>I_i</math></b>		<b><math>C_i</math></b>	<b><math>L_i</math></b>
	15 V	25 mA	5.2 nF	(*1	
<b>Digital output (slot initiators)</b> <ul style="list-style-type: none"> <li>Terminals 41(+) and 42(-)</li> <li>51(+) and 52(-)</li> </ul>	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Or <b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b><math>U_i</math></b>	<b><math>I_i</math></b>	<b><math>P_i</math></b>	<b><math>C_i</math></b>	<b><math>L_i</math></b>
	15 V	25 mA	64 mW	36 nF	100 $\mu$ H

(\*1 = values negligibly small

<b>Option Module:</b> Inductive Limit Switches, marked by <b>ILS-2</b> , 6DR4004-6G, A5E52635888 built in ARCAPRO 827A.**-*I...					
<b>Digital output (fault signal)</b> <ul style="list-style-type: none"> <li>Terminals 31(+) and 32(-)</li> </ul>	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b><math>U_i</math></b>	<b><math>I_i</math></b>	<b><math>P_i</math></b>	<b><math>C_i</math></b>	<b><math>L_i</math></b>
	17.5 V	100 mA	250 mW	5.2 nF	(*1
	<b>Type of protection: Ex ic</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b><math>U_i</math></b>	<b><math>I_i</math></b>		<b><math>C_i</math></b>	<b><math>L_i</math></b>
	17.5 V	100 mA	5.2 nF	(*1	
<b>Digital output (slot initiators)</b> <ul style="list-style-type: none"> <li>Terminals 41(+) and 42(-)</li> <li>51(+) and 52(-)</li> </ul>	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Or <b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b><math>U_i</math></b>	<b><math>I_i</math></b>	<b><math>P_i</math></b>	<b><math>C_i</math></b>	<b><math>L_i</math></b>
	16 V	25 mA	64 mW	36 nF	100 $\mu$ H

(\*1 = values negligibly small

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<b>Option Module:</b> Contact module, marked by <b>MLS</b> , 6DR4004-6K built in ARCAPRO 827A.**-*K...					
<b>Digital output (fault signal)</b> • Terminals 31(+) and 32(-)	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	15 V	25 mA	64 mW	5.2 nF	(*1
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	15 V	25 mA		5.2 nF	(*1
<b>Digital output</b> • Terminals 41(+) and 42(-) 51(+) and 52(-)	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	30 V	100 mA	750 mW	(*1	(*1
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	30 V	100 mA		(*1	(*1

(\*1 = values negligibly small

<b>Option Module:</b> Mechanic Limit Switches, marked by <b>MLS-2</b> , 6DR4004-6K, A5E52659309 built in ARCAPRO 827A.**-*M...					
<b>Digital output (fault signal)</b> • Terminals 31(+) and 32(-)	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	17.5 V	100 mA	250 mW	5.2 nF	(*1
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	17.5 V	100 mA		5.2 nF	(*1
<b>Digital output</b> • Terminals 41(+) and 42(-) 51(+) and 52(-)	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	30 V	100 mA	750 mW	(*1	(*1
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	30 V	100 mA		(*1	(*1

(\*1 = values negligibly small

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<b>Option Module:</b> Analog Output Module, marked by <b>AOM</b> , Type 6DR4004-6J, built in ARCAPRO 827A.**-A...					
<b>Current output</b> • Terminals 61(+) and 62(-) • Galvanically safe isolated from other circuits	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	30 V	100 mA	1 W	2 nF	(*1
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
30 V	100 mA		2 nF	(*1	

(\*1 = values negligibly small

<b>Option Module:</b> Internal NCS Module, marked by <b>iNCS</b> , 6DR4004-5LE					
Power supply and signal circuits electrical connected to the basic device	<b>Type of protection: Ex ia</b> For connection to certified intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>	<b>P<sub>i</sub></b>	<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
	5 V	160 mA	120 mW	110 nF	270 µH
	<b>Type of protection: Ex ic</b> For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>i</sub></b>	<b>I<sub>i</sub></b>		<b>C<sub>i</sub></b>	<b>L<sub>i</sub></b>
5 V	160 mA		110 nF	270 µH	

<b>Option Module:</b> Analog Input Module, marked by <b>AIM</b> , Type 6DR4004-6F built in ARCAPRO 827A.**-***-**2...					
<b>Connection module with filter elements intent to use for connection of:</b>  Position Transmitter 6DR4004-1ES or 6DR4004-2ES or 6DR4004-3ES or 6DR4004-4ES (only Ex ia, Ex ic, Ex db ia, Ex tb) or Non-Contacting Sensor (NCS) 6DR4004-6N	<b>Type of protection: Ex ia</b> supplied via basic device with Profibus PA or Foundation Fieldbus FF For connection to certified intrinsically safe circuits. Or <b>Type of protection: Ex ic</b> supplied via basic device with Profibus PA or Foundation Fieldbus FF For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>o</sub></b>	<b>I<sub>o</sub></b>	<b>P<sub>o</sub></b>	<b>C<sub>o</sub></b>	<b>L<sub>o</sub></b>
	5 V	static: 75 mA  short-time: 160 mA	120 mW	1 µF	1 mH
	<b>Type of protection: Ex ia</b> for supply via the other basic devices. For connection to certified intrinsically safe circuits. Or <b>Type of protection: Ex ic</b> for supply via the other basic devices. For connection to intrinsically safe circuits. Maximum values:				
	<b>U<sub>o</sub></b>	<b>I<sub>o</sub></b>	<b>P<sub>o</sub></b>	<b>C<sub>o</sub></b>	<b>L<sub>o</sub></b>
	5 V	100 mA	33 mW	1 µF	1 mH

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(16) Drawings and documents are listed in the ATEX Assessment Report No. 23 203 350721

**(17) Specific Conditions for Use**

<p>Ex i Intrinsic Safety</p>	<p>The electro-pneumatic positioner ARCAPRO 827A with type code (827A. X*-***_***-*) can also be operated with clean, dry, natural gas in locations where pressurized air is not readily available.</p> <p>As a requirement for operation with natural gas all inserted electronics of the ARCAPRO 827A, including optional modules, must comply with the available safety requirements protection type “Ex ia” and an electric connection with protection level “ia”.</p> <p>Sufficient ventilation for this operating condition must be ensured to avoid a Zone 0 atmosphere around the device.</p> <p>Operating instructions must be adhered to.</p>		
<p>General</p>	<p>The connecting and disconnecting of not energy limited circuits to the terminals and the plugging respectively unplugging of the M12 connector and of the internal plug- and socket connectors under voltage is permitted only if the presence of hazardous atmosphere can be excluded.</p>		
	<p>The capacitance of the labels exceeds the allowed value of 3 pF. Operating instructions must be observed.</p>		
	<p>When retrofitting, the optional modules listed below must be marked on the manufacturer's label of the device by ticking the corresponding checkbox:</p>		
	<p>Type designation modules</p>	<p>Identification of the checkbox on the label</p>	<p>Marking on the PCBA for retrofitting into an existing device</p>
	<p>Binary Module</p>	<p>DIO</p>	<p>6DR4004-6A</p>
	<p>Digital I/O Module</p>	<p>DIO-2</p>	<p>6DR4004-6A, A5E52635850</p>
	<p>Slot-type initiator module</p>	<p>ILS</p>	<p>6DR4004-6G</p>
	<p>Inductive Limit Switches</p>	<p>ILS-2</p>	<p>6DR4004-6G, A5E52635888</p>
	<p>Contact module</p>	<p>MLS</p>	<p>6DR4004-6K</p>
	<p>Mechanic Limit Switches</p>	<p>MLS-2</p>	<p>6DR4004-6K, A5E52659309</p>
<p>Analog Output Module</p>	<p>AOM</p>	<p>6DR4004-6J</p>	
<p>Analog Input Module</p>	<p>AIM</p>	<p>6DR4004-6F</p>	
<p>Internal NCS module</p>	<p>iNCS</p>	<p>6DR4004-5LE</p>	

(18) Essential Health and Safety Requirements

no additional ones

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