

# Technical Data Sheet

## ARCAPRO® Positioner Type 827A



TD\_827A

### General data

|  |  |   |
|--|--|---|
| <b>Mounting</b>                                | On linear actuators                    | ARCA-integrated or to VDI/VDE 3847-1 or IEC 534-6 (NAMUR)<br>Range of stroke: 3 ... 130 mm                                |
|  | On quarter turn actuators              | Integrated to VDI/VDE 3847-2 or VDI/VDE 3845<br>Angle of rotation: 30 ... 100°  |
| <b>Enclosure material</b>                      | Metal                                  | Aluminium cast AISi 12 or austenitic stainless steel 1.4581   |
| <b>Degree of protection</b>                    |  | IP 66 to EN 60529   |
| <b>Installation position</b>                   |  | Any installation position possible; pneumatic connections and exhaust opening must not point upwards for wet applications |
| <b>Climate class</b>                           | Operation                              | 4K3, but -30 ... +80 °C (Standard and FIP)<br>-40...+80 °C (LT)<br>(see electrical data for explosion-protected devices)  |
|  | Storage                                | 1K5, but -40 ... +80 °C   |
|  | Transport                              | 2K4, but -40 ... +80 °C   |
| <b>Vibration resistance</b>                    |  | 98 m/s <sup>2</sup> , 27 ... 300 Hz<br>Recommended continuous range for complete fitting ≤ 30 m/s <sup>2</sup>            |
| <b>Classification according PED 2014/68/EU</b> |  | For fluid group 1 gases; fulfils requirements in article 4, paragraph 3 (good engineering practice)                       |
| <b>CE marking</b>                              |  | Applicable directives and standards see declaration of conformity   |
| <b>Controller unit</b>                         | Five-point switch                      | Adaptive  |
|  | Dead zone                              | Adaptive or fixed from 0.1 ... 10 %   |
|  | Actuating times                        | ≥1.5 s adjustable   |
| <b>A/D converter</b>                           | Resolution                             | ≤ 0.5 %   |
|  | Sampling time                          | 10 ms   |
| <b>Cycle time</b>                              | With / without HART communication      | 20 ms   |
|  | With PROFIBUS PA communication         | 60 ms   |
|  | With Fieldbus Foundation communication | 60 ms   |
| <b>Dimensions</b>                              |  | See dimension drawing 1 and 2   |
| <b>Weight</b>                                  | Metal enclosure, aluminium             | Approx. 1.3 kg  |
|  | Metal enclosure, stainless steel       | Approx. 3.9 kg  |
| <b>Connections</b>                             | Electric                               | Screw terminals 2.5 AWG28-12; cable inlet see order key   |
|  | Pneumatic                              | G 1/4 DIN 45141 or 1/4-18NPT, see order key   |

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### Pneumatic data

|                                |                         |   |
|--------------------------------|-------------------------|---|
| <b>Operation</b>               | Standard                | At failure of electrical or pneumatic energy exhausting   |
| <b>Option</b>                  | Fail In Place           | At failure of electrical or pneumatic energy blocking   |
| <b>Inlet air pressure</b>      |                         | 1.4 ... 7 bar (Standard) / 3...7 bar (FIP)  |
| <b>Air quality</b>             | Solids                  | ISO 8573-1 Class 3  |
|                                | Dew point               | ISO 8573-1 Class 3 (-40 °C, min. 20 K below ambient temperature)  |
|                                | Oil content             | ISO 8573-1 Class 3  |
| <b>Air consumption</b>         |                         | < 36 x 10 <sup>-3</sup> Nm <sup>3</sup> /h during stationary operation  |
| <b>Flow rate (unthrottled)</b> | Air supply valve at Δp  | 2 bar - 4,1 m <sup>3</sup> /h i.N., 4 bar - 7,1 m <sup>3</sup> /h i.N., 6 bar - 9,8 m <sup>3</sup> /h i.N.  |
|                                | Air exhaust valve at Δp | 2 bar – 8,2 Nm <sup>3</sup> /h, 4 bar – 13,7 Nm <sup>3</sup> /h, 6 bar – 19,2 Nm <sup>3</sup> /h (Standard)<br>2 bar – 4,3 Nm <sup>3</sup> /h, 4 bar – 7,3 Nm <sup>3</sup> /h, 6 bar – 9,8 Nm <sup>3</sup> /h (FIP) |
| <b>Valve leakage</b>           |                         | < 0,6 x 10 <sup>-3</sup> Nm <sup>3</sup> /h   |
| <b>Throttle ratio</b>          |                         | Up to ∞ : 1 adjustable  |

### Electrical data for basic device

|  |   |                                 |  |
|--|---|---------------------------------|--|
| <b>Explosion protection</b>            | Intrinsic safety "ia"                       | II2G Ex ia IIC T6/T4 Gb, Zone 1 |  |
| <b>Permissible ambient temperature</b> | "ia" with/without HART                      | T4 / T6                         | - 30 ... + 80 °C / - 30 ... + 60 °C (Standard and FIP) |
|  |   | T4 / T6                         | - 40 ... + 60 °C / - 40 ... + 60 °C (LT)               |
|  | "ia" with PROFIBUS PA / Foundation Fieldbus | T4 / T6                         | - 30 ... + 80 °C / - 30 ... + 50 °C (Standard and FIP) |
|  |   | T4 / T6                         | - 40 ... + 60 °C / - 40 ... + 50 °C (LT)               |

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### Electrical data for basic device with / without HART 2 wire connection

|   |   |   |
|---|---|---|
| <b>Explosion protection</b>                                 | without   | „ia“  |
| <b>Electrical connection</b>                                | See Figures 5 and 6                                       | See Figures 5 and 6   |
| <b>Communication</b>  | HART version 7  |   |
| <b>Input signal I<sub>w</sub></b>                           | 4 ... 20 mA   | 4 ... 20 mA   |
| <b>Current to maintain the power supply</b>                 | ≥ 3.6 mA  | ≥ 3.6 mA  |
| <b>Required load voltage without HART 2 wire device</b>     | 6.5 V   | 8.3 V   |
| <b>Required load voltage without HART 2/3/4 wire device</b> | 8.4 V   | -   |
| <b>Required load voltage with HART 2 wire device</b>        | 6.7 V   | -   |
| <b>Required load voltage with HART 2/3/4 wire device</b>    | -   | 8.8 V   |
| <b>Static destruction limit</b>                             | ± 40 mA   | -   |
| <b>For connection to</b>                                    | -   | certified intrinsically safe circuits with max.<br>U <sub>i</sub> = 30 V<br>I <sub>i</sub> = 100 mA<br>P <sub>i</sub> = 1 W |
| <b>Internal capacitance</b>                                 | -   | 11 nF   |
| <b>Internal inductance</b>                                  | -   | 207 µH without HART<br>310 µH with HART   |
| <b>Binary input BE1</b>                                     | Suitable for dry contact, max. contact load ≤ 5 µA at 3 V |   |
| <b>Electrical isolation</b>                                 | I <sub>w</sub> and BE1 electrically connected             | I <sub>w</sub> and BE1 electrically connected   |

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### Electrical data for basic device with / without HART 3/4 wire connection

|                             |   |   |
|-----------------------------|---|---|
| Explosion protection        | without   | „ia“  |
| Electrical connection       | See Figure 7  | See Figure 7  |
| Communication               | HART version 7  |   |
| Input signal I <sub>w</sub> | 0/4 ... 20 mA   | 0/4 ... 20 mA   |
| Required load voltage       | 0.2 V   | 1.0 V   |
| Power supply U <sub>H</sub> | DC 18 ... 35 V  | DC 18 ... 30 V  |
| For connection to           | -   | certified intrinsically safe circuits with max.<br>U <sub>i</sub> = 30 V<br>I <sub>i</sub> = 100 mA<br>P <sub>i</sub> = 1 W |
| Internal capacitance        | -   | 11 nF   |
| Internal inductance         | -   | 310 µH  |
| Binary input BE1            | Suitable for dry contact, max. contact load ≤ 5 µA at 3 V   |   |
| Electrical isolation        | U <sub>H</sub> and I <sub>w</sub> electrically isolated,<br>I <sub>w</sub> and BE1 electrically connected | U <sub>H</sub> and I <sub>w</sub> electrically isolated,<br>I <sub>w</sub> and BE1 electrically connected                   |

### Electrical data for basic device PROFIBUS PA

|                                     |   |
|-------------------------------------|---|
| Electrical connection               | See Figure 8  |
| Communication                       | Layers 1 + 2 to PROFIBUS PA, transmission technique to IEC 1158-2, slave function layer 7 to PROFIBUS DP to EN 50170 with extended PROFIBUS functionality |
| Device profile                      | PROFIBUS PA profile B, version 3.02, over 150 objects   |
| Response time for a master telegram | typically 10 ms   |
| Device address                      | 126 in the as-delivered condition   |

### Electrical data for basic device Foundation Fieldbus

|                        |   |
|------------------------|---|
| Electrical connection  | See Figure 9  |
| Communication          | H1 communication to specification of the Fieldbus Foundation, group 3, class 31 PS (Publisher/Subscriber) V 2.4<br>1 resource block (RB2), 1 analogue output function block (AO), 1 PID function block (PID), 1 transducer block (standard advanced positioner valve) |
| Physical layer profile | 123, 511  |
| Block execution times  | Analogue output function block 60 ms; PID function block 80 ms  |

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### Electrical data for basic device PROFIBUS PA / Foundation Fieldbus

|                                  |   |   |
|----------------------------------|---|---|
| <b>Explosion protection</b>      | without   | „ia“  |
| <b>Power supply</b>              | Bus-powered   | Bus-powered   |
| <b>Bus voltage</b>               | DC 9 ... 32 V   | DC 9 ... 24 V   |
| <b>Current consumption</b>       | 10.5 mA ± 10 %  | 10.5 mA ± 10 %  |
| <b>Fault current</b>             | 0   | 0   |
| <b>For connection to</b>         | -   | circuits with certified FISCO power supply with max.<br>U <sub>i</sub> = 17,5 V<br>I <sub>i</sub> = 380 mA<br>P <sub>i</sub> = 5,32 W |
|                                  | -   | circuits with certified barrier with max.<br>U <sub>i</sub> = 24 V<br>I <sub>i</sub> = 250 mA<br>P <sub>i</sub> = 1,2 W               |
| <b>Internal capacitance</b>      | -   | Negligible small  |
| <b>Internal inductance</b>       | -   | 8 µH  |
| <b>Safety shutdown</b>           |   |   |
| <b>Input resistance</b>          | > 20 kΩ   | > 20 kΩ   |
| <b>Signal status 0: active</b>   | DC 0 ... 4.5 V  | DC 0 ... 4.5 V  |
| <b>Signal status 1: inactive</b> | DC 13 ... 30 V  | DC 13 ... 30 V  |
| <b>For connection to</b>         | -   | certified intrinsically safe circuits with max.<br>U <sub>i</sub> = 30 V<br>I <sub>i</sub> = 100 mA<br>P <sub>i</sub> = 1 W           |
| <b>Internal capacitance</b>      | -   | Negligible small  |
| <b>Internal inductance</b>       | -   | Negligible small  |
| <b>Binary input BE1</b>          | Suitable for dry contact, max. contact load ≤ 5 µA at 3 V   |   |
| <b>Electrical isolation</b>      | Bus connection and safety shutdown electrically isolated, Bus connection and BE1 electrically connected | Bus connection and safety shutdown electrically isolated, Bus connection and BE1 electrically connected                               |

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### Electrical data for option modules – analogue module

|                                   |                                    |  |
|-----------------------------------|------------------------------------|--|
| Explosion protection              | without                            | „ia“   |
| Electrical connection             | See Figure 10                      | See Figure 10  |
| Nominal signal range              | 4...20 mA, short circuit resistant | 4...20 mA, short circuit resistant   |
| Dynamic range                     | 3.6...20.5 mA                      | 3.6...20.5 mA  |
| Auxiliary voltage $U_H$           | +12...+35 V                        | +12...+30 V  |
| External load $R_B$ [k $\Omega$ ] | $(U_H [V] - 12)/I$ [mA]            | $(U_H [V] - 12)/I$ [mA]  |
| For connection to                 | -                                  | certified intrinsically safe circuits with max.<br>$U_i = 30$ V<br>$I_i = 100$ mA<br>$P_i = 1$ W |
| Internal capacitance              | -                                  | 11 nF  |
| Internal inductance               | -                                  | Negligible small   |
| Electrical isolation              | Disconnected from basic device     | Disconnected from basic device   |

### Electrical data for option modules – binary module

|                                      |                                |   |
|--------------------------------------|--------------------------------|---|
| Explosion protection                 | without                        | „ia“  |
| Electrical connection                | See Figure 11                  | See Figure 11   |
| Binary outputs A1, A2, fault         |                                |   |
| Signal status “High” (not responded) | Conductive, $R = 1$ k $\Omega$ | $\geq 2.1$ mA <sup>1)</sup>   |
| Signal status “Low” (responded)      | Blocked, $I_R < 60$ $\mu$ A    | $\leq 1.2$ mA <sup>1)</sup>   |
| For connection to                    | -                              | certified intrinsically safe circuits with max.<br>$U_i = 15$ V<br>$I_i = 25$ mA<br>$P_i = 64$ mW |
| Internal capacitance                 | -                              | 5,2 nF  |
| Internal inductance                  | -                              | Negligible small  |

<sup>1)</sup> Switching thresholds for supply to EN 60947-5-6:  $U_H = 8.2$  V,  $R_i = 1$  k $\Omega$

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### Electrical data for option modules – binary module (continuation)

|   |  |  |
|---|--|--|
| Explosion protection                        | without  | „ia“   |
| <b>Binary input BE2<br/>Terminals 11/12</b> |  |  |
| Auxiliary voltage $U_H$                     | $\leq$ DC 35 V $\leq$ 20 mA  | -  |
| Signal status 0:                            | $\leq$ DC 4.5 V or open  | $\leq$ DC 4.5 V or open  |
| Signal status 1:                            | $\geq$ DC 13 V   | $\geq$ DC 13 V   |
| Input resistance                            | $>$ 25 k $\Omega$  | $>$ 25 k $\Omega$  |
| Static destruction limit                    | $\pm$ 35 V   | -  |
| For connection to                           | -  | certified intrinsically safe circuits with max. $U_i = 25,2$ V   |
| Internal capacitance                        | -  | Negligible small   |
| Internal inductance                         | -  | Negligible small   |
| <b>Binary input BE2<br/>Terminals 21/22</b> |  |  |
| Signal state 0:                             | Dry contact, open  | Dry contact, open  |
| Signal state 1:                             | Dry contact, closed  | Dry contact, closed  |
| Contact load                                | 3 V, 5 $\mu$ A   | 3 V, 5 $\mu$ A   |
| Electrical isolation                        | Binary outputs A1, A2, fault, binary input BE2 terminals 11/12 disconnected from basic device;<br>binary input BE2 terminals 21/22 connected to basic device | Binary outputs A1, A2, fault, binary input BE2 terminals 11/12 disconnected from basic device,<br>binary input BE2 terminals 21/22 connected to basic device |

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### Electrical data for option modules – slot initiator module

|   |  |   |
|---|--|---|
| <b>Explosion protection</b>                 | without  | „ia“  |
| <b>Electrical connection</b>                | See Figure 12  | See Figure 12   |
| <b>Binary outputs A1, A2</b>                | Slotted initiators SJ2-SN or N7S20A to EN 60947-5-6 (NAMUR) for connecting to switching amplifier, NC (normally closed) function |   |
| <b>Signal state “High” (not responded)</b>  | $\geq 3 \text{ mA}$ at $U_{\text{nom}} = 8 \text{ V}$  | $\geq 2.1 \text{ mA}$ <sup>1)</sup>   |
| <b>Signal state “Low” (responded)</b>       | $\leq 1 \text{ mA}$ at $U_{\text{nom}} = 8 \text{ V}$  | $\leq 1.2 \text{ mA}$ <sup>1)</sup>   |
| <b>For connection to</b>                    | $U_{\text{nom}} = 8 \text{ V}$   | certified intrinsically safe circuits with max.<br>$U_i = 15 \text{ V}$<br>$I_i = 25 \text{ mA}$<br>$P_i = 64 \text{ mW}$ |
| <b>Internal capacitance</b>                 | -  | 161 nF  |
| <b>Internal inductance</b>                  | -  | 120 $\mu\text{H}$   |
| <b>Binary output fault</b>                  |  |   |
| <b>Signal status “High” (not addressed)</b> | $R = 1,1 \text{ k}\Omega$  | $\geq 2.1 \text{ mA}$ <sup>1)</sup>   |
| <b>Signal status “Low” (addressed)</b>      | $R = 10 \text{ k}\Omega$   | $\leq 1.2 \text{ mA}$ <sup>1)</sup>   |
| <b>For connection to</b>                    | $U_H \leq 35 \text{ V}$<br>$I \leq 20 \text{ mA}$  | certified intrinsically safe circuits with max.<br>$U_i = 15 \text{ V}$<br>$I_i = 25 \text{ mA}$<br>$P_i = 64 \text{ mW}$ |
| <b>Internal capacitance</b>                 | -  | 5.2 nF  |
| <b>Internal inductance</b>                  | -  | Negligible small  |
| <b>Electrical isolation</b>                 | Binary outputs A1, A2, fault disconnected from basic device  | Binary outputs A1, A2, fault disconnected from basic device   |

<sup>1)</sup> Switching thresholds for supply to EN 60947-5-6:  $U_H = 8.2 \text{ V}$ ,  $R_i = 1 \text{ k}\Omega$



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### Electrical data for option modules – contact module

|   |   |  |
|---|---|--|
| <b>Explosion protection</b>                 | without   | „ia“   |
| <b>Electrical connection</b>                | See Figure 13   | See Figure 13  |
| <b>Binary outputs A1, A2</b>                | dry contacts  |  |
| <b>Max. switching current</b>               | 4 A AC / DC   | -  |
| <b>Max. switching voltage</b>               | 250 V AC, 24 V DC   | -  |
| <b>For connection to</b>                    | -   | certified intrinsically safe circuits with max.<br>U <sub>i</sub> = 30 V<br>I <sub>i</sub> = 100 mA<br>P <sub>i</sub> = 750 mW |
| <b>Internal capacitance</b>                 | -   | Negligible small   |
| <b>Internal inductance</b>                  | -   | Negligible small   |
| <b>Binary output fault</b>                  |   |  |
| <b>Signal status “High” (not responded)</b> | R = 1,1 kΩ  | ≥ 2.1 mA <sup>1)</sup>   |
| <b>Signal status “Low” (responded)</b>      | R = 10 kΩ   | ≤ 1.2 mA <sup>1)</sup>   |
| <b>For connection to</b>                    | U <sub>H</sub> ≤ 35 V<br>I ≤ 20 mA                          | certified intrinsically safe circuits with max.<br>U <sub>i</sub> = 15 V<br>I <sub>i</sub> = 25 mA<br>P <sub>i</sub> = 64 mW   |
| <b>Internal capacitance</b>                 | -   | 5.2 nF   |
| <b>Internal inductance</b>                  | -   | Negligible small   |
| <b>Electrical isolation</b>                 | Binary outputs A1, A2, fault disconnected from basic device | Binary outputs A1, A2, fault disconnected from basic device  |

<sup>1)</sup> Switching thresholds for supply to EN 60947-5-6: U<sub>H</sub> = 8.2 V, R<sub>i</sub> = 1 kΩ

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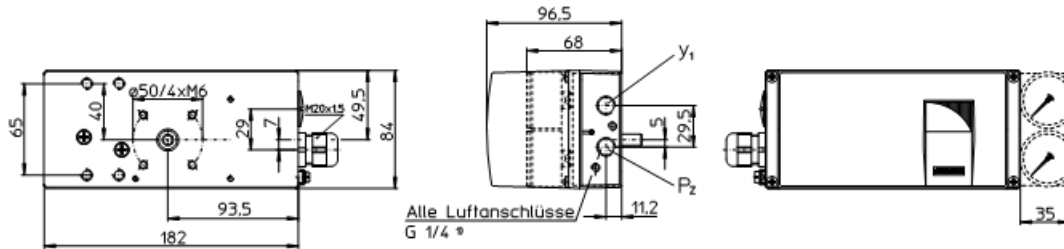


Figure 1 Metal enclosure, standard

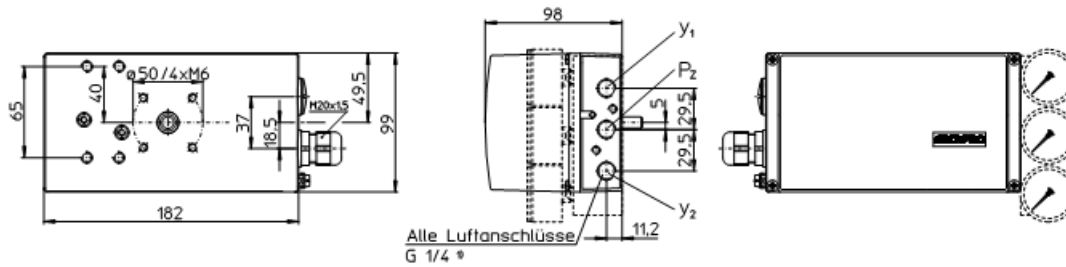


Figure 2 Metal enclosure, stainless steel

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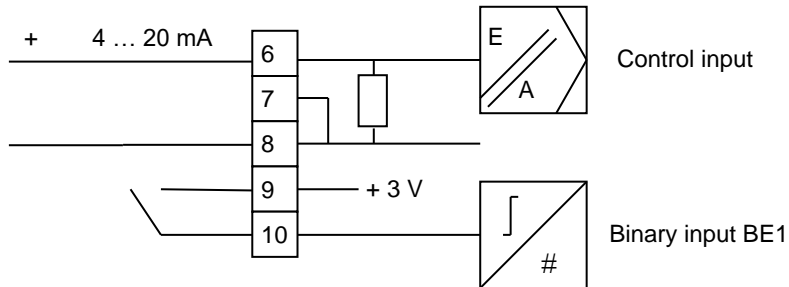


Figure 5 Electrical connection of 2 wire basic device

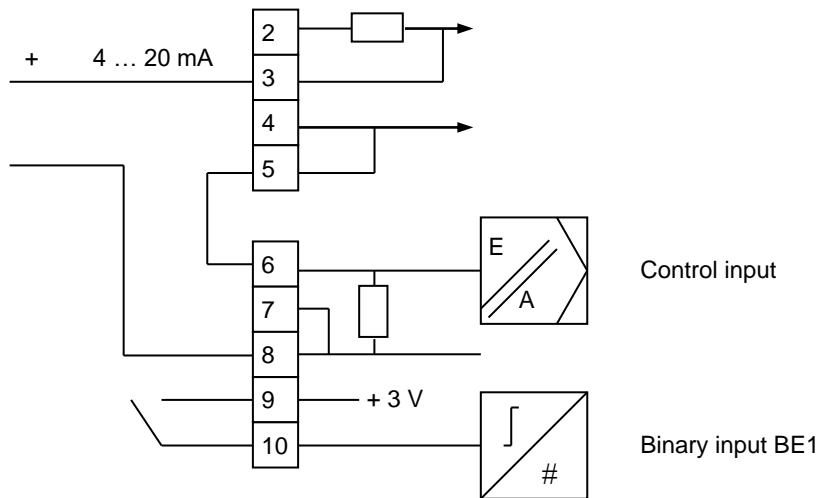


Figure 6 Electrical connection of 2/3/4 wire base device, 2 wire connection

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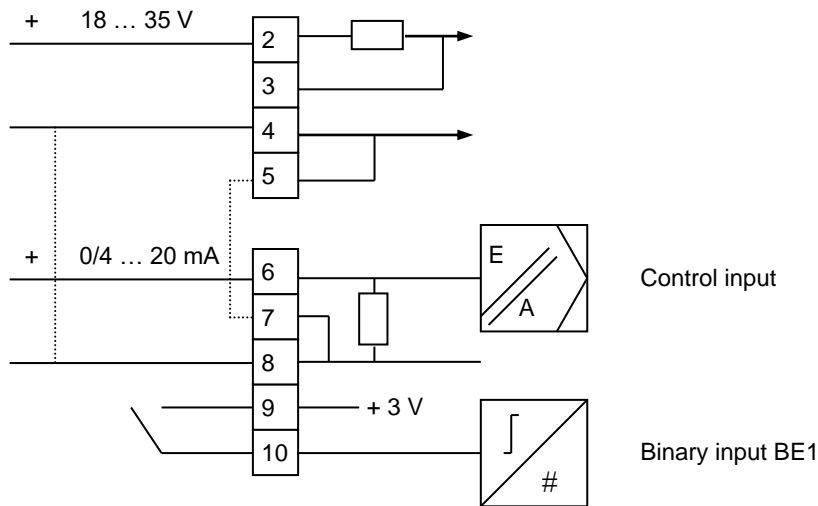


Figure 7 Electrical connection of 2/3/4 wire base device, 3/4 wire connection

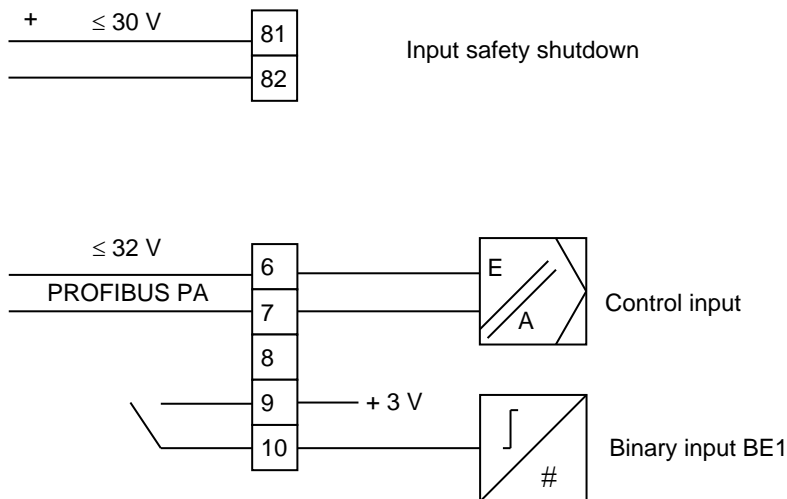


Figure 8 Electrical connection of base device, PROFIBUS PA

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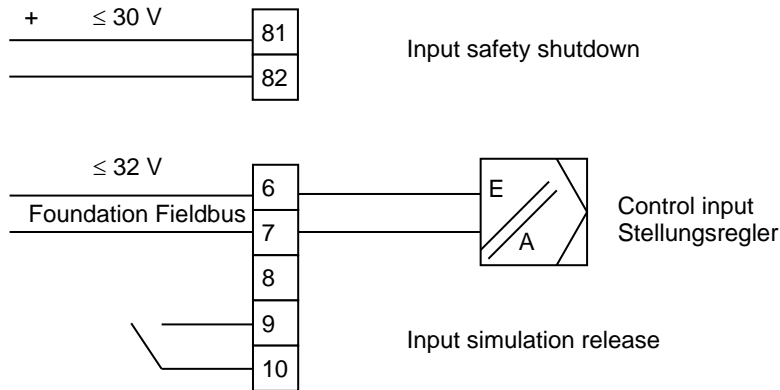


Figure 9 Electrical connection of base device, Fieldbus Foundation

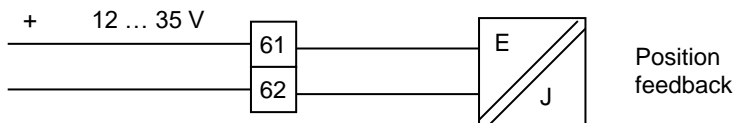


Figure 10 Electrical connection of analogue module

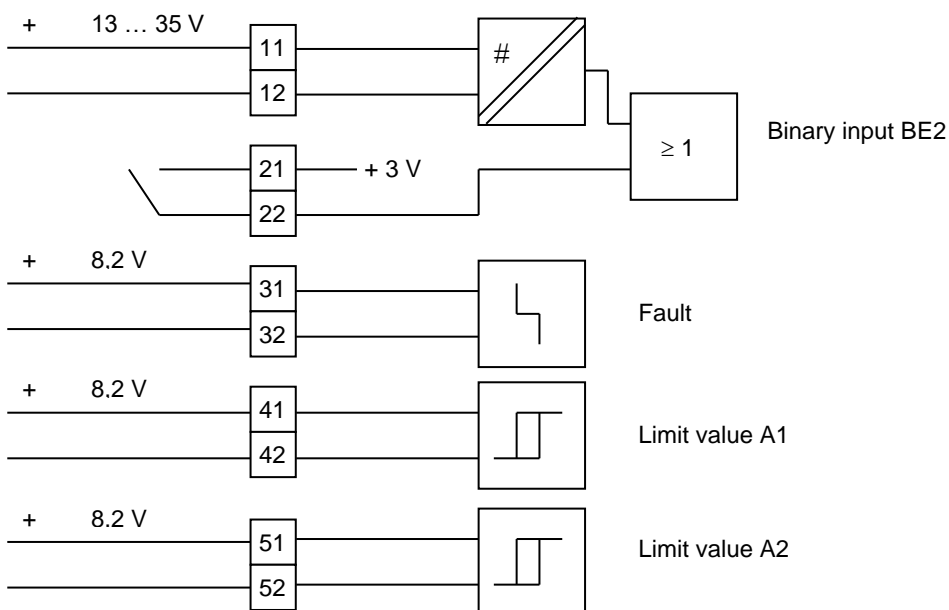


Figure 11 Electrical connection of binary module

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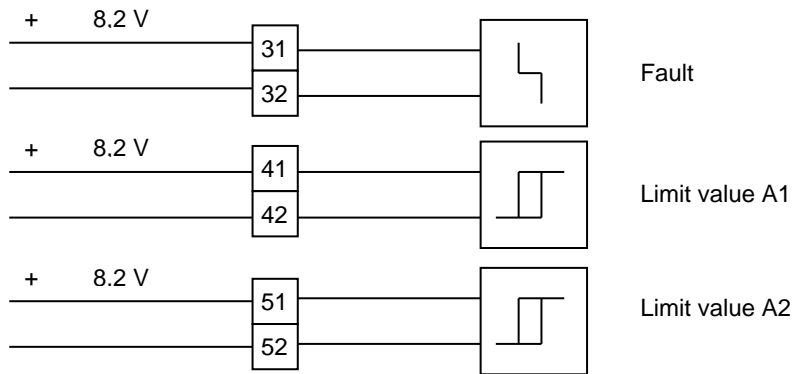


Figure 12 Electrical connection of slot initiator module

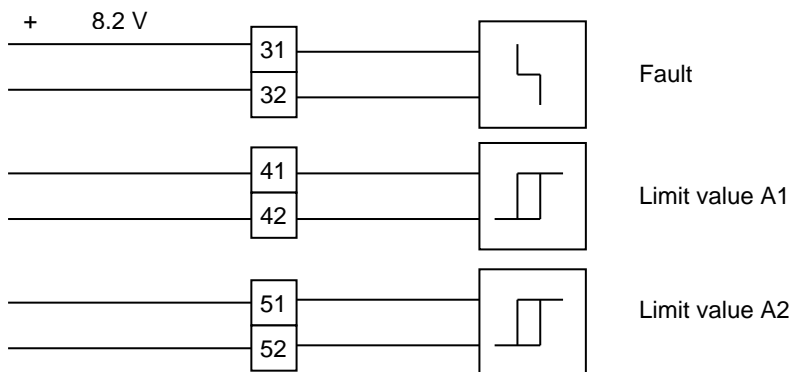


Figure 13 Electrical connection of contact module

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### Order keys for ARCAPRO® type 827A

|  |   |  |  |
|--|---|--|--|
| <b>1. Series</b>                             |   | <b>7. Enclosure material</b>                       |  |
| 827A   |   | M  | Aluminium (single-acting only)                         |
| <b>2. Explosion protection <sup>1)</sup></b> |   |  |  |
| E  | Without                                 | E  | Stainless steel  |
| X  | Explosion-proof "ia" II2G <sup>2)</sup> | <b>8. Pneumatics</b>                               |  |
|  |   | 1  | Single-acting  |
|  |   | 2  | Double-acting (aluminium housing excluded)             |
| <b>3. Connection of base device</b>          |   | <b>9. Mechanical actuation</b>                     |  |
| 2  | 2 wire                                  | 0  | Standard   |
| 4  | 2/3/4 wire <sup>4)</sup>                | 1  | with internal non contacting sensor <sup>5)</sup>      |
|  |   | 2  | None (for external sensor)                             |
| <b>4. Analogue output</b>                    |   | <b>10. Connection thread, electric / pneumatic</b> |  |
| 0  | Without analogue output                 | G  | M20x1.5 / G 1/4  |
| A  | Analogue module                         | N  | 1/2" NPT / 1/4" NPT                                    |
| <b>5. Binary output</b>                      |   | M  | M20x1.5 / 1/4" NPT                                     |
| 0  | Without binary output                   | P  | 1/2" NPT / G 1/4                                       |
| B  | Binary module                           |  |  |
| S  | Slot initiator module                   | R  | connector M12 for input signal / G 1/4                 |
| K  | Contact module                          | S  | connector M12 for input signal / 1/4" NPT              |
| <b>6. Communication</b>                      |   | <b>11. Options</b>                                 |  |
| 0  | Without communication                   | FIP  | Fail In Place <sup>3)</sup>                            |
| H  | HART                                    | LT   | - 40 °C <sup>5)</sup>                                  |
| P  | PROFIBUS PA                             | SA   | connector M12 for Analogue module <sup>5)</sup>        |
| F  | Fieldbus Foundation                     | SB   | connector M12 for Binary module <sup>5)</sup>          |
|  |   | SS   | connector M12 for Slot initiator module <sup>5)</sup>  |
|  |   | SW   | connector M12 for External stroke sensor <sup>5)</sup> |

<sup>1)</sup> ATEX and IECEx approval

<sup>2)</sup> With HART communication 2/3/4 wire only

<sup>3)</sup> only for stainless steel housing

<sup>4)</sup> PROFIBUS PA and Foundation Fieldbus excluded

<sup>5)</sup> On request

### Example:

|                     |                        |
|---------------------|------------------------|
| <b>827A.E2-A0H-</b> | <i>Positions 1 - 6</i> |
|---------------------|------------------------|

Positioner 827A – no explosion-proof – 2-wire connection – analogue module – without binary output – HART communication

|                 |                         |
|-----------------|-------------------------|
| <b>M10-G-LT</b> | <i>Positions 7 - 11</i> |
|-----------------|-------------------------|

Aluminium enclosure – single-acting – mechanical actuation (standard) – connection thread electric M20x1.5 / pneumatic G 1/4 / - 40 °C

### Accessories

|                                   |  |
|-----------------------------------|--|
| <b>Mounting kits</b>              | For integrated mounting ARCA linear actuators type 812                               |
|                                   | For integrated mounting ARCA linear actuators type 813                               |
|                                   | For integrated mounting on linear actuators acc. to VDI/VDE 3847-1                   |
|                                   | For mounting on linear actuators acc. to IEC 534 (NAMUR)                             |
|                                   | For integrated mounting ARCA quarter turn actuators type 840                         |
|                                   | For mounting on quarter turn actuators acc. to VDI/VDE 3845                          |
| <b>Pressure gauge blocks</b>      | Pressure gauge block for single-acting or double-acting positioner                   |
| <b>Extern. position detection</b> | External rotary potentiometer for strokes to 130 mm or external linear potentiometer |