**DATA SHEET**

# Type 8697

## Pneumatic control unit for decentralised automation of process valves ELEMENT

- Compact design
- Integrated pilot valve with manual override
- Integrated pilot air duct in the actuator
- Automatic end position feedback setting
- With ATEX II cat. 3G/D and cat. 2G/D approval

Product variants described in the data sheet may differ from the product presentation and description.

### Can be combined with

**Type 2100**
Pneumatically operated 2/2-way angle seat valve ELEMENT for decentralized automation

**Type 2101**
Pneumatically operated 2/2-way globe valve ELEMENT for decentralised automation

**Type 2103**
2/2-way diaphragm valve with pneumatic stainless steel actuator (Type ELEMENT) for decentralised automation

**Type 2106**
Pneumatically operated 3/2-way seat valve ELEMENT for decentralized automation

**Type 2000**
Pneumatically operated 2/2-way angle seat valve CLASSIC

**Type 2012**
Pneumatically operated 2/2-way globe valve CLASSIC

**Type 2031**
2/2-way diaphragm valve with pneumatic plastic actuator (Type CLASSIC)

### Type description

The Type 8697 pneumatic control unit is designed for decentralised automation of ELEMENT Type 21xx pneumatic process valves. Mechanical or inductive limit switches record the valve position. The integrated pilot valve controls single-acting actuators. The design of the control unit and the actuator permits an integrated pilot air duct without external piping. As well as the electrical position feedback, the device status is displayed by LEDs on the pneumatic control unit itself. The housing is easy to clean and features proven IP protection and chemically resistant materials for use in hygienic processing in the food, beverage and pharmaceutical industries. Combined with Bürkert ELEMENT actuators, the pneumatic actuating system enables spring chamber aeration that avoids actuator chamber contamination from the environment.

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**Visit product website**

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# 1. General technical data

| | |
|---|---|
| **Product properties** | |
| Dimensions | Further information can be found in chapter "4. Dimensions" on page 7. |
| **Material** | |
| Body | PPS |
| Seal | EPDM |
| Cover | PC |
| **Commissioning** | |
| Setting valve end position | Automatic (mechanical) |
| Manual override of pilot valve | Yes |
| **Status display** | |
| Display of the device and valve status | Coloured LEDs |
| Optical position indicator (mechanical) | Yes |
| **Performance data** | |
| **Position sensor** | |
| **Stroke range for linear actuator** | |
| Valve spindle, initiator | 2...36 mm |
| Valve spindle, micro switch | 4...36 mm |
| **Position feedback** | |
| Micro switch | 2x micro switch (0...48 V AC/DC, max. 2 A)<br>2x micro switch (50...250 V AC/DC, max. 2 A) |
| Initiator | 2x inductive proximity switch (24 V DC), PNP shutter (3-wire) with LEDs<br>2x inductive proximity switch NAMUR (8.2 V DC) shutter (2-wire) with LEDs<br>2x inductive proximity switch (24 V DC), shutter (2-wire) with LEDs |
| **Electrical data** | |
| **Operating voltage** | |
| Pilot valve | 24 V DC ± 10 %, residual ripple 10 % DC, power consumption 1 W |
| Residual ripple | 10 % |
| Power consumption | ≤ 1 W |
| Micro switch | 0...48 V AC/DC, max. 2 A<br>230 V variant: 50...250 V AC/DC, max. 2 A |
| Initiator | 10...30 V DC, max. 100 mA per initiator |
| Protection class | III according to DIN EN 61140 |
| **Electrical connection** | |
| Multipole variant | M12, 8-pin<br>M12, 4-pin |
| Cable gland variant | M16 × 1.5 (cable Ø 4...8 mm) with screw-type terminals for cable cross-sections 0.14...1.5 mm² |
| **Pneumatic data** | |
| **Control medium** | Neutral gases, air, quality class according to ISO 8573-1 |
| Dust content | Class 7 (< 40 µm particle size) |
| Particle density | Class 5 (< 10 mg/m³) |
| Pressure dew point | Class 3 (≤ - 20 °C or min. 10 °C below the lowest operating temperature) |
| Oil content | Class X (< 25 mg/m³) |
| Supply pressure | 3...7 bar [1,) 2,)] |
| Pilot air port | Threaded connection G ⅛, stainless steel |
| **Positioning system** | |
| Circuit function | Single-acting |
| Air capacity | 7 $l_N$/min (for aeration and ventilation)<br>($Q_{Nn}$ value according to definition at pressure drop from 7 to 6 bar abs) |
| **Actuator series/size** | |
| Pneumatic control unit / Position feedback indicator | Type 21xx, actuator Ø 50 mm |
| Position feedback | Type 20xx, actuator Ø 40...225 mm |

| | |
|---|---|
| **Approvals and conformities** | |
| **Explosion protection** | |
| Ignition protection class | II 3D Ex tc IIIC T135 °C Dc<br>II 3G Ex ec IIC T4 Gc<br>II 2D Ex ia IIIC T135 °C Db<br>II 2G Ex ia IIC T4 Gb |
| ATEX | BVS 13 ATEX E 087 X<br>II 3D Ex tc IIIC T135 °C Dc<br>II 3G Ex ec IIC T4 Gc<br><br>BVS 13 ATEX E104 X<br>II 2D Ex ia IIIC T135 °C<br>II 2G Ex ia IIC T4 Gb |
| IECEx | IECEx BVS 13.0097 X<br>Ex tc IIIC T135 °C Dc<br>Ex ec IIC T4 Gc<br><br>IECEx BVS 13.0105X<br>Ex ia IIIC T135 °C Db / Ex ia IIC T4 Gb |
| Further information can be found in chapter "2.4. Explosion protection" on page 5. | |
| **North America (USA/Canada)** | |
| UL Listed for the USA and Canada | cULus certificate: E238179<br>Further information can be found in chapter "2.5. North America (USA/Canada)" on page 5. |
| FM (Factory Mutual) – Explosion Protection | Increased Safety for Class I, Zone 2, AEx/Ex ec IIC T4 Gc; Zone 22, AEx/Ex tc IIIC T135 °C Dc hazardous (classified) locations, indoors and outdoors (IP54). Alternatively marked as Class I Division 2 Groups A, B, C and D T4; Class II, III Division 2 Groups F and G T135 °C.<br>Further information can be found in chapter "2.5. North America (USA/Canada)" on page 5. |
| **Others** | |
| China Compulsory Certification (CCC) | The products with Ex approval are suitable for import and use for hazardous applications in China. Further information can be found in chapter "2.6. Others" on page 6. |
| Further information can be found in chapter "2. Approvals and conformities" on page 5. | |
| **Environment and installation** | |
| **Operating conditions** | |
| **Ambient temperature** | |
| With/without pilot valve | 0...+ 55 °C (II 3D Ex tc IIIC T135 °C Dc, II 3G Ex nA IIC T4 Gc)<br>0...+ 55 °C (II 2D Ex IIIC ia T135 °C Db, II 2G Ex ia IIC T4 Gb) |
| With pilot valve | - 10...+ 55 °C (without ATEX resp. for II 2G Ex ia IIC T4 Gb) |
| Without pilot valve | - 20...+ 60 °C (without ATEX resp. for II 2G Ex ia IIC T4 Gb) |
| Degree of protection | IP65/IP67 according to EN 60529, 4X according to NEMA 250 standard |
| Operating altitude | Up to 2000 m above sea level |
| **Installation and mechanical data** | |
| Installation position | As required, preferably with actuator in upright position |
| Valve actuator (type, size) | ELEMENT Type 21xx (actuator size Ø 50 mm)<br>CLASSIC Type 20xx (actuator size Ø 40...225 mm) only in combination with position feedback indicator without pilot valve |
| Adapter kit | Further information can be found in chapter "Adapter kits ELEMENT" on page 17 and in chapter "Adapter kits CLASSIC" on page 17. |

1.) The supply pressure must be 0.5...1 bar above the minimum required pilot pressure of the valve actuator.
2.) Pressure data: overpressure to atmospheric pressure

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# 2. Approvals and conformities

## 2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

## 2.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

## 2.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

## 2.4. Explosion protection

| Approval | Description |
|---|---|
| | **Optional: Explosion protection**<br><br>**ATEX:**<br>BVS 13 ATEX E 087 X<br>II 3G Ex ec IIC T4 Gc<br>II 3D Ex tc IIIC T135 °C Dc<br><br>BVS 13 ATEX E104 X<br>II 2G Ex ia IIC T4 Gb<br>II 2D Ex ia IIIC T135 °C<br><br>**IECEx:**<br>IECEx BVS 13.0097 X<br>Ex tc IIIC T135 °C Dc<br>Ex ec IIC T4 Gc<br><br>IECEx BVS 13.0105X<br>Ex ia IIIC T135 °C Db<br>Ex ia IIC T4 Gb |

## 2.5. North America (USA/Canada)

| Approval | Description |
|---|---|
| | **Optional: UL Listed for the USA and Canada**<br>The products are UL Listed for the USA and Canada according to:<br>• UL 61010-1 (ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE – Part 1: General Requirements)<br>• CAN/CSA-C22.2 No. 61010-1 |
| | **Optional: FM (Factory Mutual) – Explosion Protection**<br>Increased Safety for Class I, Zone 2, AEx/Ex ec IIC T4 Gc; Zone 22, AEx/Ex tc IIIC T135 °C Dc hazardous (classified) locations, indoors and outdoors (IP54). Alternatively marked as Class I Division 2 Groups A, B, C and D T4; Class II, III Division 2 Groups F and G T135 °C. |

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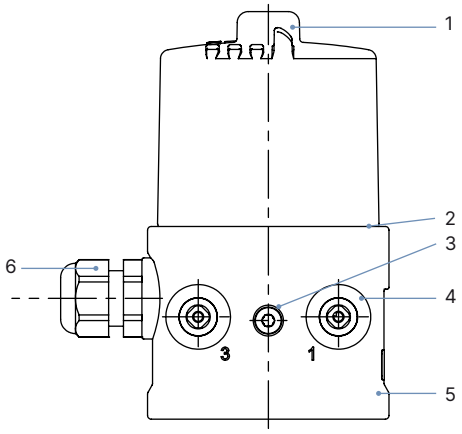
### 2.6. Others

**China Compulsory Certification (CCC)**

| Conformity | Description |
|---|---|
| | **Optional: China Compulsory Certification (CCC)**<br>The products with Ex approval are suitable for import and use for hazardous applications in China. |

## 3. Materials

### 3.1. Material specifications




| No. | Element | Material |
|---|---|---|
| **1** | Cover | PC |
| **2** | Seals | EPDM |
| **3** | Screws | Stainless steel |
| **4** | Push-in connector<br>Threaded connection G ⅛ | POM/Stainless steel<br>Stainless steel |
| **5** | Basic housing | PPS |
| **6** | Cable gland<br>M12 plug connector | PA<br>Stainless steel |

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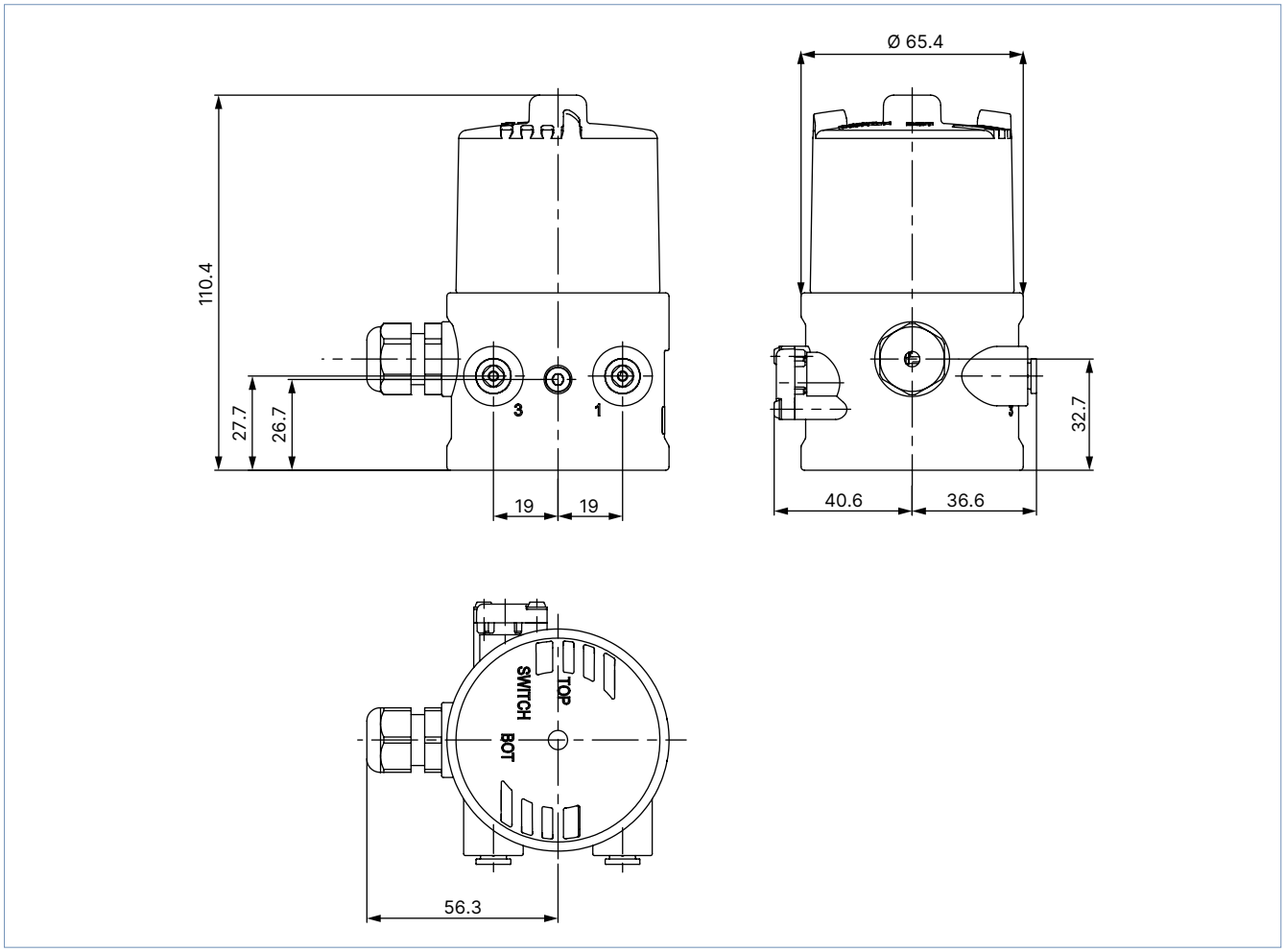
# 4. Dimensions

## 4.1. Mounting on ELEMENT process valve Types 21xx

**Note:**
Dimensions in mm, unless otherwise stated

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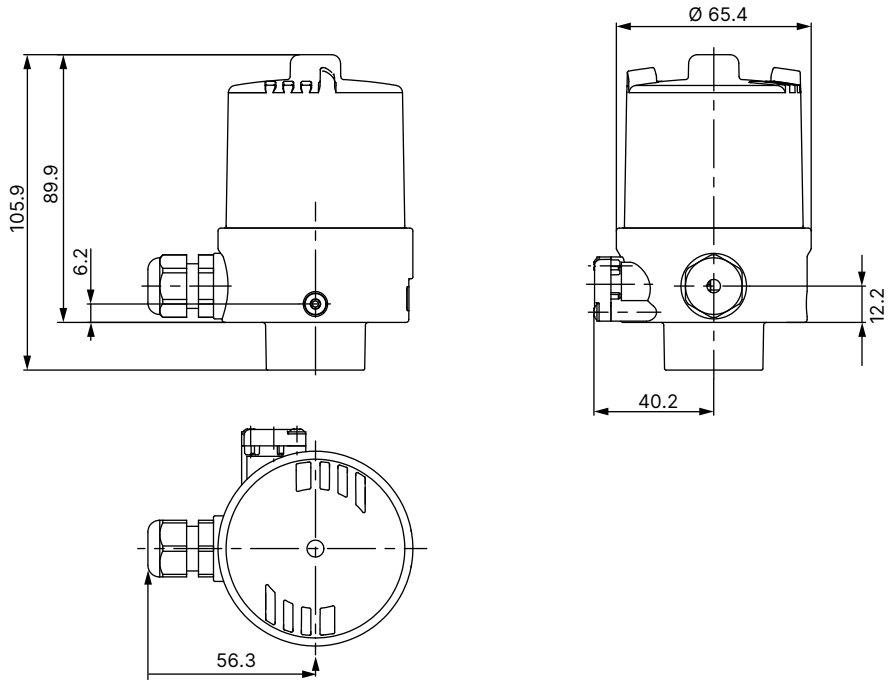
## 4.2. Mounting on CLASSIC process valves Type 20xx

**Note:**
Dimensions in mm, unless otherwise stated

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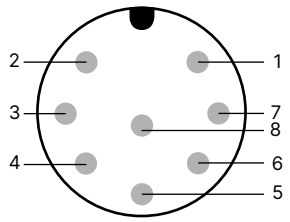
# 5. Product connections

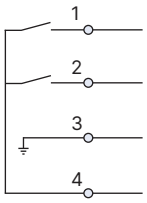
## 5.1. Electrical connection

**Multipole connection**

**Circular plug M12, 8-pin**



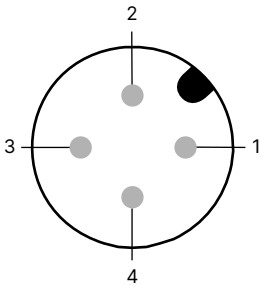

**Plug configuration with inductive proximity switch 3-wire 24 V DC PNP**

| Pin | Wire colour [1.)] | Configuration | External circuit | |
|---|---|---|---|---|
| **1** | White | INI Bottom OUT Output 1 |  | Output 1(24 V) |
| **2** | Brown | INI Top OUT Output 2 | | Output 2 (24 V) |
| **3** | Green | INI – (GND) Supply | | GND |
| **4** | Yellow | INI + (24 V DC) Supply | | + 24 V DC |
| **5** | Grey | Valve control 0/24 V | | 0/24 V DC ± 10 % Residual ripple 10 % |
| **6** | Pink | Valve control GND | | |
| **7** | – | Not assigned | – | |
| **8** | – | Not assigned | – | |

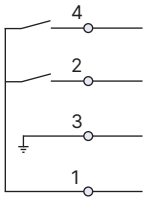


1.) The colours indicated refer to the connection cable available as an accessory (Article no. 919061).

**Circular plug M12, 4-pin**




**Pin assignment without control valve (feedback head) with inductive proximity switches 3-wire 24 V DC PNP**

| Pin | Configuration | External circuit | |
|---|---|---|---|
| **1** | INI + (24 V DC) Supply |  | Output 1 (24 V) |
| **2** | INI Top OUT Output 2 | | Output 2 (24 V) |
| **3** | INI – (GND) Supply | | GND |
| **4** | INI Bottom OUT Output 1 | | + 24 V DC |



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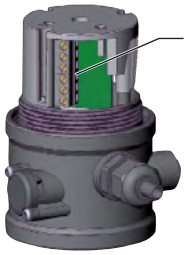
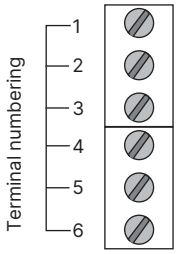
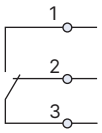
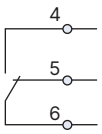
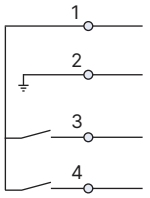
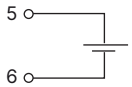
### Cable gland

**M16 × 1.5 (cable Ø 4...8 mm), screw terminal (1.5 mm²)**




| Terminal assignment with micro switch 0...48 V DC/50...250 V AC/DC | | | |
|---|---|---|---|
| **Terminal** | **Configuration** | **External circuit** | |
| **1** | Micro switch top |  | NO |
| **2** | | | NC |
| **3** | | | Joint connection |
| **4** | Micro switch bottom |  | NO |
| **5** | | | NC |
| **6** | | | Joint connection |

| Terminal assignment with inductive proximity switch 3-wire 24 V DC PNP | | | |
|---|---|---|---|
| **Terminal** | **Configuration** | **External circuit** | |
| **1** | INI + (24 V DC) Supply |  | + 24 V DC |
| **2** | INI GND Supply | | GND |
| **3** | INI Top OUT Output 1 | | Output 1 |
| **4** | INI Bottom OUT Output 2 | | Output 2 |
| **5** | Valve control 0/24 V DC |  | 0/24 V DC ± 10 % |
| **6** | Valve control GND | | Residual ripple 10 % |

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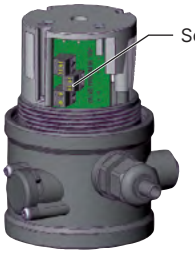
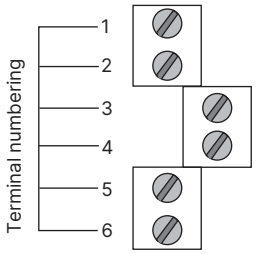
**Cable gland M16 × 1.5 (cable Ø 4...8 mm), screw-type terminals (1.5 mm²)**




**Port configuration with inductive proximity switch NAMUR**

| Terminal | Configuration | External circuit |
|---|---|---|
| 1 | INI Top + | Explosion protected area / Non-hazardous area<br>1 / 3<br>+8.2 V DC<br>2 / 4<br>NAMUR sensor<br>R<br>0 V<br>See footnote 1.) |
| 2 | INI Top – | |
| 3 | INI Bottom + | |
| 4 | INI Bottom – | |
| 5 | Valve control + | 5<br>6<br>See footnote 2.) |
| 6 | Valve control GND | |

**Terminal assignment with inductive proximity switch 2-wire 24 V DC**

| Terminal | Configuration | External circuit |
|---|---|---|
| 1 | INI Top + | 1 / 3<br>+<br>2 / 4<br>–<br>Load |
| 2 | INI Top – | |
| 3 | INI Bottom + | |
| 4 | INI Bottom – | |
| 5 | Valve control + | 5<br>6 |
| 6 | Valve control GND | |

1.) According to NAMUR recommendation. Observe the Turck KEMA 02 ATEX 1090X-type examination certificate.
2.) Barrier signal see PTB 07 ATEX 2048

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# 6. Product installation

## 6.1. Combination options with pneumatic ELEMENT process valves

**Note:**
A decentralised, **automated valve system** consists of **pneumatic control unit Type 8697** and an **ELEMENT process valve Type 21xx**.

The following information is required to select a complete system:

- **Article no.** of the desired **pneumatic control unit Type 8697**, see "Pneumatic control unit for decentralised automation of ELEMENT on/off process valves Type 21xx" on page 15
- **Article no.** of the **desired process valve Type 21xx**, see **data sheet Type 2100 ▶, Type 2101 ▶** and **Type 2103 ▶**

You order two components and receive a completely assembled and tested valve.

**Example for decentralised automation of on/off ELEMENT valve systems**

| Pneumatic Control unit | Pneumatic process valve | | |
|---|---|---|---|
| | | | |
| **Type 8697 ▶** | **Type 2100 ▶**<br>Angle seat valve | **Type 2101 ▶**<br>Globe valve | **Type 2103 ▶**<br>Diaphragm valve |
| | **on/off ELEMENT valve system** | | |
| | | | |
| | **Type 8801-YE-U**<br>ELEMENT valve system<br>Type 2100 + Type 8697 | **Type 8801-GC-U**<br>ELEMENT valve system<br>Type 2101 + Type 8697 | **Type 8801-DF-U**<br>ELEMENT valve system<br>Type 2103 + Type 8697 |

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## 6.2. Combination options with pneumatic CLASSIC process valves

**Note:**
An **on/off CLASSIC valve system** consists of an **electrical position feedback indicator Type 8697** and a **process valve Type 20xx CLASSIC**. The function of the position feedback indicator is solely to transmit the valve end position signals to the control system. The pneumatic control of the process valve is done by the valve island in the control cabinet, either centralized or distributed depending on the system design.

The following information is required to select a complete system:

- **Article no.** of the desired **electrical position feedback indicator Type 8697,** see "Electrical position feedback for combination with centrally automated CLASSIC on/off process valves Type 20xx" on page 15
- **Article no.** of the selected **process valve Type 20xx,** see separate **data sheet Type 2000 ▶, Type 2012 ▶** and **Type 2031 ▶**

You order two components and receive a completely assembled and tested valve.

**Example for centralized/distributed automation of on/off CLASSIC valve systems**

The **on/off CLASSIC valve system** can be combined with the **valve terminal Type 8640 ▶, Type 8644 ▶** or **Type 8650 ▶**.

| Electrical position feedback indicator | Pneumatic process valve | | |
|---|---|---|---|
| | | | |
| **Type 8697 ▶** | **Type 2000 ▶**<br>Angle seat valve | **Type 2012 ▶**<br>Globe valve | **Type 2031 ▶**<br>Diaphragm valve |
| | **on/off CLASSIC valve system** | | |
| | | | |
| | **Type 8801-YE-U**<br>ELEMENT valve system<br>Type 2000 + Type 8697 | **Type 8801-GC-U**<br>ELEMENT valve system<br>Type 2012 + Type 8697 | **Type 8801-DF-U**<br>ELEMENT valve system<br>Type 2031 + Type 8697 |

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# 7. Ordering information

## 7.1. Bürkert eShop

**Bürkert eShop – Easy ordering and quick delivery**

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

## 7.2. Bürkert product filter

**Bürkert product filter – Get quickly to the right product**

You want to select products comfortably based on your technical requirements?
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## 7.3. Ordering chart

### Pneumatic control unit for decentralised automation of ELEMENT on/off process valves Type 21xx

| End position feedback | | | | | | Electrical connection | Article no. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Inductive proximity switch | | | Micro switch | | Feedback status LEDs | | Standard / cULus | ATEX II Cat. 3G/D, IECEx [1.] | ATEX II Cat. 2G/D, IECEx [1.] | ATEX II Cat. 2G, IECEx [1.] | cFMus Class I Div. 2, ... [3.] |
| 3-wire | 2-wire | | 0...48 V AC/DC | 50...250 V AC/DC | | | | | | | |
| PNP | NAMUR | 24 V DC | | | | | | | | | |
| **Pneumatic control (pilot valve 3/2-way, single-acting NO/NC)** | | | | | | | | | | | |
| 2 | – | – | – | – | Yes | Cable gland | 248816 | 255847 | – | – | 20127648 |
| 2 | – | – | – | – | Yes | Circular plug M12, 8-pin | 248818 | 255849 | – | – | – |
| – | 2 | – | – | – | Yes | Cable gland | – | – | 248822 | 255862 | – |
| – | – | 2 | – | – | Yes | | 248814 | 255845 | – | – | 20127657 |
| Without end position feedback | | | | | | Cable gland | 260279 | 260280 | – | – | 20127658 |
| | | | | | | Circular plug M12, 8-pin | 260278 | – | – | – | – |
| **Electric feedback device (without pilot valve)** | | | | | | | | | | | |
| 2 | – | – | – | – | Yes | Cable gland | 248812 | 255843 | – | – | 20127647 |
| 2 | – | – | – | – | Yes | Circular plug M12, 8-pin | 250471 | 255857 | – | – | – |
| 2 | – | – | – | – | Yes | Circular plug M12, 4-pin | 363443 [2.] | – | – | – | – |
| – | 2 | – | – | – | Yes | Cable gland | – | – | 248820 | 255860 | – |
| – | – | 2 | – | – | Yes | | 248810 | 255841 | – | – | 20127656 |
| – | – | – | 2 | – | – | | 248824 | – | – | – | – |
| – | – | – | – | 2 | – | | 248808 | – | – | – | – |

1.) CCC (China Compulsory Certificate) for device variants with Ex approval
2.) Without UL
3.) Further information can be found in chapter "2.5. North America (USA/Canada)" on page 5.

**Further variants on request**

**Additional**
Feedback switch-point NPN coded

### Electrical position feedback for combination with centrally automated CLASSIC on/off process valves Type 20xx

| End position feedback | | | | | | Electrical connection | Article no. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Inductive proximity switch | | | Micro switch | | Feedback status LEDs | | Standard / cULus | ATEX II Cat. 3G/D, IECEx [1.] | ATEX II Cat. 2G/D, IECEx [1.] | ATEX II Cat. 2G, IECEx [1.] | cFMus Class I Div. 2, ... [3.] |
| 3-wire | 2-wire | | 0...48 V AC/DC | 50...250 V AC/DC | | | | | | | |
| PNP | NAMUR | 24 V DC | | | | | | | | | |
| **End position feedback** | | | | | | | | | | | |
| 2 | – | – | – | – | Yes | Cable gland | 248827 | 255851 | – | – | 20121837 |
| 2 | – | – | – | – | Yes | Circular plug M12, 8-pin | 250472 | 255858 | – | – | – |
| 2 | – | – | – | – | Yes | Circular plug M12, 4-pin | 280169 [2.] | – | – | – | – |
| – | 2 | – | – | – | Yes | Cable gland | – | – | 248831 | 255863 | – |
| – | – | 2 | – | – | Yes | | 248826 | 255850 | – | – | 20127654 |
| – | – | – | 2 | – | – | | 248833 | – | – | – | – |
| – | – | – | – | 2 | – | | 248825 | – | – | – | – |

1.) CCC (China Compulsory Certificate) for device variants with Ex approval
2.) Without UL
3.) Further information can be found in chapter "2.5. North America (USA/Canada)" on page 5.

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## 7.4. Ordering chart accessories

### Standard accessories ELEMENT

**Note:**
Must be ordered separately.

| Description | Article no. |
|---|---|
| M12 circular socket with cable, 4-pin, A-coded, cable length: 5 m | 918038 |
| M12 circular socket with cable, 8-pin, cable length: 5 m, for input and output signals | 919267 |
| Silencer G ⅛" | 780779 |

### Standard accessories CLASSIC

**Note:**
Must be ordered separately.

| Description | Article no. |
|---|---|
| M12 circular socket with cable, 4-pin, A-coded, cable length: 5 m | 918038 |
| M12 circular socket with cable, 8-pin, cable length: 5 m, for input and output signals | 919267 |
| Silencer G ⅛ | 780779 |
| Stroke limitation: CLASSIC actuator Ø 50/63 mm | 689353 |
| Stroke limitation: CLASSIC actuator Ø 80 mm | 689354 |
| Stroke limitation: CLASSIC actuator Ø 100/125 mm | 689355 |

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### Adapter kits ELEMENT

**Note:**
Must be ordered separately.

Adapter kits for third-party actuators can be found in the **data sheet Adaptations for third-party actuators Type KK01** ▶ or contact the appropriate Bürkert sales office.

| Description | Actuator size | Control function | Article no. |
|---|---|---|---|
| Adapter kit for ELEMENT Type 21xx | Ø 50 mm | Universal | 682259 |

### Adapter kits CLASSIC

**Note:**
Must be ordered separately.

Adapter kits for third-party actuators can be found in the data sheet **Adaptations for third-party actuators Type KK01** ▶ or contact the appropriate Bürkert sales office.

| Description | Actuator size | Control function | Article no. |
|---|---|---|---|
| Adapter kit CLASSIC Type 20xx | Ø 40 mm | Universal | 682263 |
| | Ø 50/63/80 mm | Universal | 682264 |
| | Ø 100/125 mm | Universal | 682265 |
| | Ø 175/225 mm | Universal | 684944 |
| Retrofit kit [1] CLASSIC Type 20xx | Ø 40 mm | Universal | 698573 |

1.) Adapter kit for retrofitting old CLASSIC actuators (without optical position indicator on the actuator cover) or as a replacement adapter kit for the discontinued position feedback **Type 1062** ▶. Please observe the general installation instructions in the **operating instructions Type 8697** ▶.

| Actuator CLASSIC Type 20xx, Ø 40 | |
|---|---|
| **Old variant (without optical position feedback indicator)** | **New variant (with optical position feedback indicator)** |
| | |

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