





Control head for decentralised automation of ELEMENT process valves

- Contact-free inductive valve position registration (Teach function)
- Colour illuminated status display
- Integrated pilot air duct in the actuator
- Fieldbus interface AS-Interface, IO-Link or Bürkert system bus (büS)
- With ATEX II cat. 3G/D / IECEx 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 ELE-MENT) for decentralised automation



Type 2104

T-diaphragm valve with pneumatic actuator in stainless steel (Type ELEMENT) for decentralised automation



Type 2105

Tank bottom diaphragm valve with pneumatic actuator in stainless steel (Type ELEMENT) for decentralised automation



Type 2106

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

Type description

The device Type 8691 control head is designed for decentralised automation of ELEMENT Type 21xx pneumatic process valves. The valve position is registered via a contact-free, analogue sensor element which automatically detects and saves the valve end position using the Teach function during start-up. The integrated pilot valve controls single or double-acting actuators. An optional communication interface, AS-Interface, IO-Link or büS (based on CANopen) can be selected.

The design of the control head and the actuator permits internal control air routing without external piping. Besides the electrical position feedback, the device status is shown directly on the control head itself through coloured powerful LEDs, even in difficult ambient conditions.

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. Focused on plant wash-down applications, the IP protection of the housing is supported by positive pressure inside the control head. Combined with Bürkert ELEMENT actuators, the pneumatic actuating system enables spring chamber aeration that avoids actuator chamber contamination from the environment.

FLU-TECH CO. LTD.

Email: sales@flutech.co.th Website: https://flutech.co.th

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1. General technical data

1.1. Control head Type 8691

| Product properties | |
|------------------------------------|--|
| Dimensions | Further information can be found in chapter "4. Dimensions" on page 8. |
| Material | |
| Body | PPS, stainless steel |
| Seal | EPDM |
| Cover | PC |
| Operation | |
| Operating keys | 2 |
| Service interface | Connected to PC via USB connection |
| Configuration tool | Bürkert Communicator |
| Commissioning | |
| Setting valve end position | Through automatic or manual teach function |
| Manual operation of pilot valve | Yes |
| Status display | .917 / /47 |
| Display of device and valve status | High-power LEDs (colours individually adjustable) |
| Communication | |
| Fieldbus | AS-Interface, IO-Link |
| Digital | Bürkert system bus (büS) (based on CANopen) |
| Performance data | |
| Functional overview | Further information can be found in chapter "1.6. Functional overview Type 8691" on page 6. |
| Position sensor | |
| Analogue position sensor | Inductive (contactless) with self-adjusting switching points (PNP) (NPN on request) |
| Stroke range for linear actuator | CAY / WY |
| Valve spindle | 2.545 mm |
| Electrical data | 193 / 4/ |
| Electrical connection | |
| Multipole version | M12, 8-pin resp. 5-pin according to device version |
| | (see "5. Device/Process connections" on page 9) |
| Cable gland version | M16 × 1.5 (terminal range 510 mm) |
| Pneumatic data | With screw terminals for cable cross sections 0.141.5 mm ² |
| Control medium | Noutral gases air quality class according to ISO 9572 -1 |
| | Neutral gases, air, quality class according to ISO 8573 - 1 Class 7 (< 40 µm particle size) |
| Dust content Particle density | Class 5 (< 40 µm particle size) Class 5 (< 10 mg/m³) |
| Particle density | Class 3 (< 10 mg/m²) Class 3 (< - 20 °C) |
| Pressure dew point Oil content | Class X (< 25 mg/m³) |
| | |
| Air supply filter | Exchangeable |
| Mesh size | ~0.1 mm |
| Supply pressure | 37 bar ¹⁾ |
| Pilot air port | Threaded connection G 1/8, stainless steel |
| Positioning system | 0: 1 1: (0/0) 11 11 1: (7/0) |
| Circuit function | Single-acting (3/2-way) and double-acting (5/2-way) |
| Air capacity | 250 I_N /min (for aeration and ventilation) (Q_{Nn} value according to definition at pressure drop from 7 to 6 bar abs) |
| Actuator series/size | Type 21xx, actuator Ø 70/90/130/225 mm |
| · | ** |









| Approvals and conformities | |
|----------------------------|---|
| Explosion protection | |
| Ignition protection class | II 3D Ex to IIIC T135 °C Do II 3G Ex eo IIC T4 Go |
| ATEX | BVS 14 ATEX E 008 X II 3D Ex to IIIC T135 °C Do II 3G Ex ec IIC T4 Go |
| IECEX | IECEX BVS 14.0009 X Ex tc IIIC T135 °C Dc Ex ec IIC T4 Gc |

Further information can be found in chapter "2.4. Explosion protection" on page 7.

| North America (USA/Canada | | | | |
|--------------------------------------|--|--|--|--|
| UL Listed for the USA and Canada | cULus certificate: E238179 Further information can be found in chapter "2.5. North America (USA/Canada)" on page 7. | | | |
| FM Explosion Protection | Increased Safety for Class I, Zone 2, AEx ec IIC T4 Gc hazardous (classified) locations, indoors and outdoors (IP54). Alternatively marked as Class I Division 2 Groups A, B, C, and D; T4. Further information can be found in chapter "2.5. North America (USA/Canada)" on page 7. | | | |
| 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 7. | | | |

Further information can be found in chapter "2. Approvals and conformities" on page 7.

Environment and installation Operating conditions

| Ambient temperature | |
|----------------------------------|--|
| With pilot valve | -10+55 °C |
| Without pilot valve | -20+60 °C |
| 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 | |
| Mounting variant | Direct mounting |
| Installation position | As required, preferably with actuator in upright position |
| Valve actuator (type, size) | ELEMENT Type 21xx (actuator Ø 70/90/130/225 mm) |
| Adapter kit | Further information can be found in chapter "Adapter kits" on page 15. |

^{1.)} The supply pressure applied must be 0.5 to 1 bar above the minimum required pilot pressure of the valve actuator.

Without fieldbus communication: 24 V DC

| Electrical data | |
|-----------------------|--|
| Operating voltage | 24 V DC ± 25 % UL: NEC Class 2 |
| Residual ripple | 10 % |
| Power consumption | 2 W or 5 W at maximum load on an active digital output |
| Protection class | III according to DIN EN 61140 |
| Electrical connection | |
| Multipole version | M12, 8-pin |
| Cable gland version | M16 × 1.5 (cable Ø 510 mm) with terminals for cable cross-sections 0.141.5 mm ² |
| Input/Output | |
| Output | Max. 100 mA per output |









1.3. With fieldbus communication: AS-Interface

| Product properties | |
|--|--|
| Profile | S-B.A.E (AB slave, max. 62 slaves/master), certificate no. 136701 according to specification v3.0 |
| Electrical data | |
| Operating voltage | Via ASi power supply 29.531.6 V DC (according to specification), UL: NEC Class 2 |
| Protection class | III according to DIN EN 61140 |
| Power consumption | |
| Max. current consumption | 110 mA |
| Unit with additional actuator supply (AUX Power) | External power supply 24 V DC \pm 10 % (the power supply unit must contain one secured disconnection according to IEC 364 - 4 - 41 (PELV or SELV)) |
| System supply | Max. 110 mA without additional actuator supply (AUX Power), with pilot valve. Max. 60 mA with additional actuator supply or without pilot valve |
| Actuator supply | Max. 50 mA with additional actuator supply |
| Electrical connection | M12, 5-pin |
| Output | |
| Contact rating pilot valve | Approx. 0.8 W |
| Watchdog function | Integrated |
| | |

With digital communication: IO-Link

| Electrical data | | | |
|-----------------------------|--|--|--|
| Electrical connection | M12 × 1, 5-pin, A-coded | | |
| IO-Link revision | 1.1 | | |
| SIO-Mode | Nein | | |
| VendorID | 0×0078,120 | | |
| DeviceID | See IODD file (the IODD file can be downloaded from our website Type 8691 ▶, see Software > Device Description Files) | | |
| Transmission rate | 230.4 kbit/s | | |
| Data storage | Yes | | |
| Maximum cable length | 20 m | | |
| Port class | A and B | | |
| Power supply | Via IO-Link | | |
| Port Class A | | | |
| Operating voltage | 24 V DC ± 25% (according to specification) | | |
| System supply | Max. 150 mA with pilot valve Max. 100 mA without pilot valve | | |
| Port Class B | | | |
| Operating voltage | | | |
| System supply (Pin 1 + 3) | | | |
| Actuator supply (Pin 2 + 5) | 24 V DC ± 25% (according to specification) | | |
| Current consumption | | | |
| System supply (Pin 1 + 3) | stem supply (Pin 1 + 3) Max. 100 mA | | |
| Actuator supply (Pin 2 + 5) | Max. 50 mA | | |
| | | | |

With digital communication: Bürkert system bus (büS)

| Electrical data | | |
|-----------------------|--|--|
| Operating voltage | 1830 V DC (according to specification) | |
| Electrical connection | M12 × 1, 5-pin, A-coded | |
| Current consumption | Max. 120 mA | |











1.6. **Functional overview Type 8691**

| Function | | Version | | | | |
|--|-----------|----------|---|-------------------------------|-----------------|--|
| | 24 V | IO-Link | AS- Interface Stand- ard-Slave | AS- Interface A/B-Slave | büS/ CANopen | |
| Basic functions | | | | | | |
| Teach function position sensor | Х | X | X | X | Χ | |
| Manual override of pilot valve (mechanical) | Х | X | X | X | Χ | |
| Manual override of pilot valve (electrical) | _ | X | - 1 | _ | Χ | |
| Position feedback process valve | X | X | X | X | Χ | |
| Feedback signal current valve position (intermediate position) | _ | X | - | - | - | |
| Optical position feedback/status display high-performance LEDs | Х | X | X | X | X | |
| Colour change of the optical position feedback possible (LED in 3 colours: green, yellow, red) | X | X | X | X | Х | |
| Selection of LED display modes | _ | X | _ | _ | Х | |
| Diagnostic LEDs | - | X | Х | Χ | Х | |
| Selection of different LED display modes | - 0 | X | - | _ | Х | |
| Date storage function | _ | X | - | _ | _ | |
| Locating function | 4 //A- V | X | - | _ | Х | |
| büS communication interface (Bürkert system bus) | 1 1 1-1-1 | - | _ | _ | Х | |
| büS service interface (for Bürkert Communicator software) | | X | _ | _ | Х | |
| Diagnosis | | | <u>'</u> | ' | | |
| Process valve switching cycles counter with definable limit value | _ | X | _ | _ | Х | |
| Pilot valve switching cycles counter | - | X | _ | _ | Х | |
| Operating hours counter with definable limit value | / /- / | X | _ | _ | Х | |
| Process valve counter for opening/closing timeout | - | X | _ | _ | Х | |
| Travel accumulator with definable limit value | - | X | _ | _ | Х | |
| Active diagnostic messages (feedback when limit values are exceeded) | - | Х | - | _ | Х | |
| Diagnosis reset command (to reset counter values) | _ | X | _ | _ | Х | |
| Error feedback displacement transducer | _ | X | X | Х | Х | |
| Self-monitoring control head with automatic error message | _ | X | | | Х | |
| Feedback Teach error | Х | X | Х | Х | Х | |
| Feedback overtemperature | _ | X | | | Х | |
| Feedback communication error | _ | X | Х | Х | Х | |
| Feedback for opening/closing timeout | _ | X | _ | _ | Х | |
| Tolerance for switching time overrun | _ | Х | _ | _ | Х | |
| Error detection if the setpoint position is not reached (end positions not reached) | _ | Х | _ | _ | Х | |
| Tolerance band of end position detection | _ | X | _ | _ | _ | |
| Detection of under-voltage and over-voltage of power supply | _ | Х | _ | _ | Х | |
| Log function for error cases | - | X | _ | _ | Х | |
| Parameterization | | <u> </u> | <u> </u> | · | | |
| Enable/disable safety position in case of setpoint or bus error | _ | Х | _ | _ | Х | |
| Selecting and setting the SIO mode | - | X | _ | _ | _ | |
| Selection of digital outputs (end positions) PNP, NPN | X | X | _ | _ | _ | |
| Selection of digital outputs (end positions) PNP, NPN, PP | _ | X | _ | _ | _ | |
| Deactivation of local operation (lock function) | _ | X | _ | _ | Х | |
| Factory reset function (reset to factory setting) | _ | Х | _ | _ | Х | |









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 versions 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** ATEX: BVS 14 ATEX E 008 X II 3D Ex tc IIIC T135 °C Dc II 3G Ex ec IIC T4 Gc IECEx: IECEx BVS 14.0009 X Ex tc IIIC T135 °C Dc Ex ec IIC T4 Gc

2.5. North America (USA/Canada)

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

2.6. **Others**

China Compulsory Certification (CCC)

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





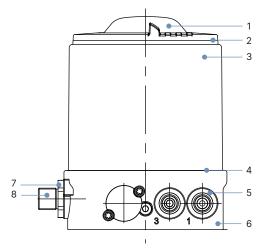






3. **Materials**

3.1. **Material specifications**

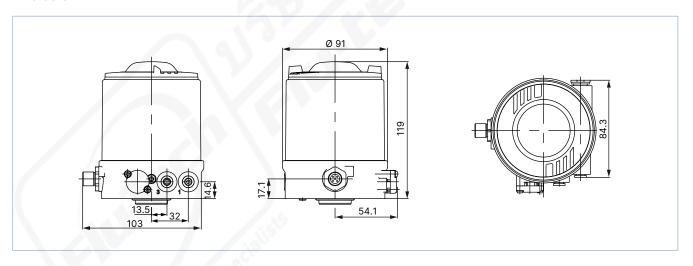


| No. | Element | Material |
|-----|---|--|
| 1 | Cover | PC |
| 2 | Seal | EPDM |
| 3 | Body casing | Stainless steel |
| 4 | Seal | EPDM |
| 5 | Push-in connector Threaded ports G 1/8 | POM/stainless steel Stainless steel |
| 6 | Basic housing | PPS |
| 7 | Screws | Stainless steel |
| 8 | M12 plug connector M12 | Stainless steel |

Dimensions

4.1. Mounting on process valve ELEMENT Type 21xx

Dimensions in mm









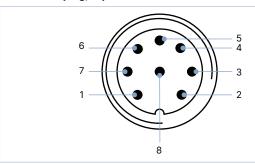


5. **Device/Process connections**

5.1. **Electrical connections**

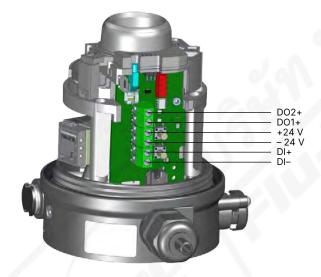
Without fieldbus communication 24 V DC

M12 circular plug, 8-pin



| Pin | Description | | |
|-----|--|--|--|
| 1 | Digital output (DO2+) end position with actuator activated | | |
| 2 | Digital output (DO1+) end position with actuator deactivated | | |
| 3 | Operating voltage GND | | |
| 4 | Operating voltage + 24 V DC | | |
| 5 | Digital input valve control + | | |
| 6 | Digital input valve control – | | |
| 7 | Not assigned | | |
| 8 | Not assigned | | |

Cable gland



Input signal

| Pin | Description |
|-------|---|
| DO2+ | Digital output end position with actuator activated |
| DO1+ | Digital output end position with actuator deactivated |
| +24 V | Operating voltage + 24 V DC |
| -24 V | Operating voltage GND |
| DI+ | Digital input valve control + |
| DI- | Digital input valve control – |

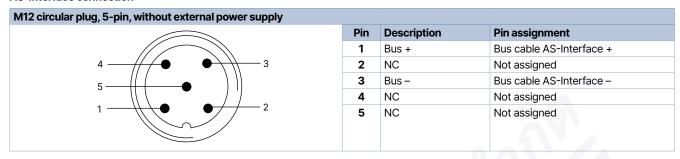


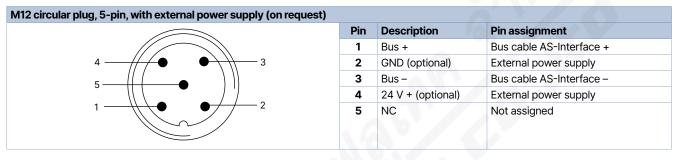






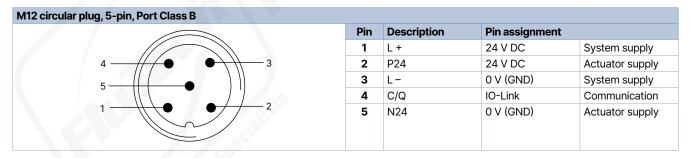
AS-Interface connection



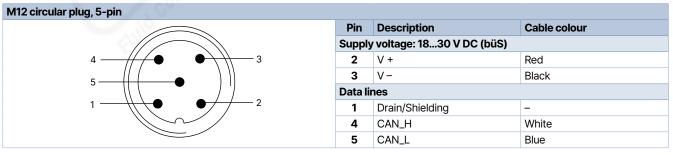


IO-Link connection





Bürkert system bus (büS) connection











6. **Product installation**

6.1. Combination options with pneumatic process valves

Note:

A complete TopControl control valve system Type 8691 and an ELEMENT process valve Type 21xx.

The following information is required to select a complete system:

- · Article no. of the desired control head, see data sheet Type 8691
- 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.



Type 8801-GC-H

Valve system ELEMENT

2101 + 8691

1.) See data sheet adaptations for third-party actuators Type KK01 > or contact the relevant Bürkert sales office.

Type 8801-YE-H

Valve system ELEMENT

2100 + 8691









Type 8801-DF-H

Valve system ELEMENT

2103 + 8691

Mounting on third-

party actuators 1.)



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? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter









7.3. **Ordering chart**

Linear displacement sensor / internal control air routing

ELEMENT type 21xx actuator series and third-party actuators (for required adaptation see type KK01 or on request)

All standard versions are UL-approved (UL approval for IO-Link.

| Communication | Electrical connection | Circuit function Pilot valve system | Article no. | | |
|-----------------------------|--|---------------------------------------|---------------------|-------------------------------------|--|
| | | | Standard / cULus | ATEX II Cat. 3G/D, IECEx, CCC | cFMus CL I ZN 2/CL I DIV 2 (with ATEX/ IECEX II 3G/D) |
| AS-Interface Slave profile: | M12 circular plug connector | Single-acting | 20024895 | 20024910 | - |
| S-B.A.E | | Double-acting | 20024918 | 20024926 | - |
| (AB-Slave, max. 62 slaves) | | Position feedback indicator / without | 20024891 | o. r. | _ |
| | M12 circular plug | Single-acting | 20024901 | 20024911 | - |
| | connector/80 cm cable | Double-acting | 20024924 | 20024928 | - |
| | | Position feedback indicator / without | 20024893 | o. r. | - |
| IO-Link | M12 circular plug connector Port Class A | Single-acting | 20024938 | 20024942 | - |
| | | Double-acting | 20024954 | 20024958 | - |
| | | Position feedback indicator / without | 20024930 | 20024934 | - |
| | M12 circular plug connector Port Class B | Single-acting | 20024946 | 20024950 | - |
| | | Double-acting | 20024960 | 20024964 | - |
| Bürkert system bus (büS) | M12 circular plug connector | Single-acting | 20024974 | 20024978 | - |
| | | Double-acting | 20024982 | 20024986 | - |
| | | Position feedback indicator / without | 20024966 | 20024970 | - |
| Without fieldbus | M12 circular plug connector | Single-acting | 20024842 | 20024855 | - |
| communication | | Double-acting | 20024875 | 20024888 | - |
| | | Position feedback indicator / without | 20024819 | 20024827 | - |
| | Cable gland | Single-acting | 20024840 | 20024853 | 20054406 |
| | | Double-acting | 20024873 | 20024886 | 20054404 |
| | | Position feedback indicator / without | 20024817 | 20024825 | 20054399 |











Rotary position sensor / internal control air routing

External actuators (required adaptation see type KK01 or on request)

| Communication | Electrical connection | Circuit function Pilot valve system | Article no. | | |
|-----------------------------|--|---------------------------------------|---------------------|-------------------------------------|--|
| | | | Standard / cULus | ATEX II Cat. 3G/D, IECEx, CCC | cFMus CL I ZN 2/CL I DIV 2 (with ATEX/ IECEx II 3G/D) |
| AS-Interface Slave Profile: | M12 circular plug | Single-acting | 20024897 | 20062089 | _ |
| S-B.A.E | connector | Double-acting | 20024920 | o. r. | - |
| (AB-Slave, max. 62 Slaves) | | Position feedback indicator / without | o. r. | o. r. | _ |
| | M12 circular plug | Single-acting | 20111304 | 20111318 | - |
| | connector/80 cm cable | Double-acting | 20111327 | o. r. | - |
| | | Position feedback indicator / without | 20024894 | o. r. | - |
| IO-Link | M12 circular plug connector Port Class A | Single-acting | 20024940 | 20024944 | - |
| | | Double-acting | 20024956 | o. r. | _ |
| | | Position feedback indicator / without | 20024932 | 20024936 | _ |
| | M12 circular plug connector Port Class B | Single-acting | 20024948 | 20024952 | _ |
| | | Double-acting | 20024962 | o. r. | - |
| Bürkert-Systembus (büS) | M12 circular plug connector | Single-acting | 20024976 | 20024980 | - |
| | | Double-acting | 20024948 | o. r. | - |
| | | Position feedback indicator / without | 20024968 | 20024972 | _ |
| Ohne | M12 circular plug connector | Einfachwirkend | 20024850 | 20024859 | - |
| Feldbuskommunikation | | Doppeltwirkend | 20024884 | o. r. | _ |
| | | Rückmelder / ohne | 20024923 | 20024831 | _ |
| | Cable gland | Einfachwirkend | 20024848 | 20024857 | 20054408 |
| | | Doppeltwirkend | 20024881 | o. r. | o. r. |
| | | Rückmelder / ohne | 20024821 | 20024829 | 20054402 |

o. r. = on request

Further versions on request



Additional büS/CANopen









Ordering chart accessories

Standard accessories

Note:

Must be ordered separately.

| Description | Article no. |
|--|-------------|
| M12 circular socket with cable, 8-pin, cable length: 5 m, for input and output signals | 919267 🛱 |
| AS-interface flat cable clamp, M12 outlet, stainless steel outlet | 799646 🛱 |
| USB büS interface set 2 (Type 8923) for connection to the Bürkert Communicator software: including büS stick, connection cable to M12 plug, M12 connection cable on micro USB for the büS service interface and Y distributor, cable length: 0.7 m | 772551 ≒ |
| büS cable extension, M12, cable length: 1 m | 772404 🖫 |
| büS cable extension, M12, cable length: 3 m | 772405 🛱 |
| büS cable extension, M12, cable length: 5 m | 772406 🛱 |
| büS cable extension, M12, cable length: 10 m | 772407 ∖≕ |
| Silencer G 1/8 | 780779 🖼 |
| Sensor Puck (spare part) | 682240 ≒ |
| Software Bürkert Communicator | Type 8920 ▶ |

Adapter kits

Note:

Must be ordered separately.

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

| Description | Actuator size | Control function | Article no. |
|---|----------------|------------------|-------------|
| Attachment kit for Type 21xx/23xx actuator series | Ø 70/90/130 mm | Universal | 679917 📜 |
| Attachment kit for Type 21xx/23xx actuator series | Ø 225 mm | Universal | 60025906 ≒ |







