



Digital electropneumatic Process Controller SideControl

- Compact and robust design
- Easy Start-up using TUNE-Function of the Positioner and Process controller
- Integrated diagnostic functions for valve monitoring
- Dynamic positioning system with no air consumption in controlled state
- EtherNet/IP, PROFINET, Modbus TCP, PROFIBUS DP-V1 or Bürkert system bus (büS)

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

Can be combined with



Control valve system
Diaphragm linear actuator



Control valve system
Rotary actuator



Control valve system
Rotary actuator with remote positioner



Control valve system
Control valve with remote positioner



Control valve system
Hygienic process control valve with remote positioner

Type description

The digital process controller Type 8793 is designed to standardization acc. to IEC 60534-6-1 or VDI/VDE 3845 (IEC 60534-6-2) for assembly with linear and rotary actuators. In addition, the remote version can be combined with Bürkert process control valves.

The process controller can be operated by the usual current and voltage standard signals and can also be equipped with the fieldbus interface. The actual process value is directly supplied to the device as 4...20 mA, PT100 or as frequency signal. The process controller calculates the position setpoint for the subordinated positioner through variance comparison.

The parameterization of process controller can be carried out automatically via Tune function. The handling is easily done either on a graphic display with keypad or via Bürkert Communicator.

The process controller is equipped with diagnostic functions to monitor the state of the valve. With the diagnostics, the operating conditions of the control valve can be monitored. This allows planned maintenance and optimizes plant availability.

The pilot valve system can be used equally for single and double acting actuators. It is characterized by a defined safety feature in case of failure of the electrical or pneumatic power and possesses an enormous air capacity range with pressure supply up to 7 bar.

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1. General technical data

1.1. Process controller SideControl Type 8793

Product features	
Dimensions	Detailed information can be found in chapter "2. Dimensions" on page 7.
Material	
Housing	Aluminium plastic-coated
Seals	EPDM, NBR, FKM
Operation	
Display	Graphic display with backlight and intuitive menu navigation
Operating keys	Membrane keypad with 4 keys
Service interface	Connected to PC via USB connection
Configuration tool	Bürkert Communicator PACTware (only for device versions with PROFIBUS)
Commissioning	
Initialization positioner/process controller	Automatic by P.TUNE function (self-optimization of PID parameters)
Status display	
Optical position indicator (mechanical)	Integrated (for NAMUR version)
Communication	
Fieldbus	EtherNet/IP, PROFINET, Modbus TCP, PROFIBUS DP-V1
Digital	Bürkert system bus (bÜS) - based on CANopen
Position sensor	
Integrated position sensor (NAMUR)	Conductive plastic rotary potentiometer
External remote position sensor	Linear or rotative
Measuring range for rotary actuators	
PROFIBUS	Rotation angle: 30°...150°
EtherNet/IP, PROFINET, Modbus TCP and bÜS	Rotation angle: 30°...180°
Stroke range for linear actuators	3...130 mm, depending on the lever of the attachment kit
Electrical data	
Operating voltage	24 V DC $\pm$ 10 %
Residual ripple	Max. 10 % (for DC)
Protection class	III acc. to DIN EN 61140
Power consumption	< 5 W
Input /Output	
Digital input	1 binary input, 0...5 V = log "0", 10...30 V = log "1"
Digital output	2 binary output (optional), galvanically isolated
Current limitation	100 mA, output will be synchronised when overloaded
Analogue output	1 output (optional) 0/4...20 mA, 0...5/10 V
Input data setpoint and actual value	
Setpoint signal	
Setpoint setting	0/4...20 mA 0...5/10 V
Input resistance	0/4...20 mA: 70 Ω 0...5/10 V: 20 k Ω
Actual value signal	
Setting 4...20 mA	70 Ω Input resistance/resolution 12 bit
Frequency setting	20 k Ω Input resistance, 0...1000 Hz/1 % o.R. input frequency range, Input signal > 300 mV _{ss} sine, rectangle, triangle
Setting Pt 100	Measuring range -20...+220 °C, resolution < 0.1 °C
Electrical connection	
Multipole version	Screw terminals: M8, M12 acc. to device version (see connection description)
Cable gland version	2x M20 $\times$ 1.5 (cable $\varnothing$ 6...12 mm) on screw terminals (0.14...1.5 mm ²)
Remote version	1x M12 $\times$ 1.5 (cable $\varnothing$ 3...6.5 mm)

Pneumatic data

Control medium	Neutral gases, air, quality class acc. to ISO 8573-1
Dust content	Class 7 (<40 µm particle size)
Particle density	Class 5 (<10 mg/m ³)
Pressure dew point	Class 3 (<-20 °C)
Oil content	Class X (<25 mg/ m ³)

Air supply filter	Exchangeable
Mesh size	~0.1 mm
Supply pressure	1.4...7 bar ^{1.) 2.)}
Pilot air ports	Threaded port G ¼

Positioning system (control function and air capacity)**Universal air capacity**

Single and double acting	50 l _N /min (at 1.4 bar ^{2.)}) for aeration and ventilation 150 l _N /min (at 6 bar ^{2.)}) for aeration and ventilation Q _{Nn} = 100 l _N /min
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Low air capacity

Single acting	Q _{Nn} = 7 l _N /min (Q _{Nn} acc. to definition at pressure drop from 7 to 6 bar absolute)
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Approvals and certificates

Conformity	EMC directive 2014/30/EU
UL	CAN/CSA-C22 2 no. 139 UL 429
CSA	Class 3221 82-VALVES - actuator - Cert. acc. to US Standards Class 3221 02-VALVES - actuator
ATEX	II 3G Ex ec ic IIC T4 Gc II 3D Ex tc IIIC T135 °C Dc Certificate: BVS 16 ATEX E 118 X
IECEX	Ex ec ic IIC T4 Gc Ex tc IIIC T135 °C Dc Certificate: IECEX BVS 16.0091 X
CCC (China Compulsory Certificate)	For devices with Ex approval

Environment and installation**Installation and mechanical data**

Mounting variants	NAMUR acc. to IEC 60534-6-1 resp. VDI/VDE 3845 (IEC 60534-6-2), remote
Installation position	As required, display above or sideways
Valve actuator (type, size)	Rotary and linear actuators acc. to NAMUR, ELEMENT Type 2301, 2300 (Actuator size Ø70/90/130 mm) and CLASSIC (Actuator size Ø175/225 mm) in combination with remote version
Adapter kits	Detailed information can be found in chapter "6.4. Ordering chart Accessories" on page 28

Operating conditions**Ambient temperature (max.)**

With ATEX/IECEX approval	0...+60 °C
Without Ex approval	-10...+60 °C
Degree of protection	IP65/IP67 acc. to EN 60529, 4X acc. to NEMA 250 Standard
Operating altitude	Up to 2000 m above sea level

1.) The supply pressure has to be 0.5...1 bar above the minimum required pilot pressure for the valve actuator.

2.) Pressure specifications: Overpressure with respect to atmospheric pressure

1.2. Linear remote position sensor (ELEMENT Type 8798)

Note:

When mounting the remote positioner away from the actuator, the length of the pneumatic control lines influences the dynamics and accuracy of the position control loop. The length of the control air lines should therefore be as short as possible.

Product properties	
Actual position signal	Digital (RS485)
Detection range of the sensor	3...45 mm (stroke range of valve spindle)
Electrical data	
Operating voltage	24 V DC $\pm$ 10 %
Protection class	III acc. to DIN EN 61140
Power consumption	<0.3 W
Electrical connection	
Cable gland (cable length)	1x M16x 1.5 (Cable Ø5...10 mm) on screw terminals (0.14...1.5 mm ²)
Connection cable	10 m
Approvals and certificates	
Degree of protection	IP65 and IP67 acc. to EN 60529, 4X acc. to NEMA 250 Standard
Ignition protection	II 3G Ex ec IIC T4 Gc II 3D Ex tc IIIC T135 °C Dc
Conformity	EMC directive 2014/30/EU
Approvals	cULus certificate no. 238179
CCC (China Compulsory Certificate)	For devices with Ex approval
Environment and installation	
Ambient temperature	-25...+80 °C

1.3. Rotative remote position sensor (NAMUR)

Note:

When mounting the remote positioner away from the actuator, the length of the pneumatic control lines influences the dynamics and accuracy of the position control loop. The length of the control air lines should therefore be as short as possible.

Product properties	
Stroke range when mounted to linear actuators	3...130 mm, depending on the lever of the attachment kit
Actual position signal	Digital (RS485)
Measuring range	Rotation angle 30°...180°
Electrical data	
Operating voltage	10...30 V DC
Protection class	III acc. to DIN EN 61140
Power consumption	<0.8 W
Electrical connection	2 m round cable (shielded)
Approvals and certificates	
Degree of protection	IP65 acc. to EN 60529
Conformity	EMC directive 2014/30/EU
Approvals	UL (cULus) certificate no. E226909
Environment and installation	
Ambient temperature	-25...+80 °C

1.4. Position feedback with proximity switches (accessories for retrofitting)

Note:

The position feedback has two proximity switches which are independently adjustable via switch lugs.

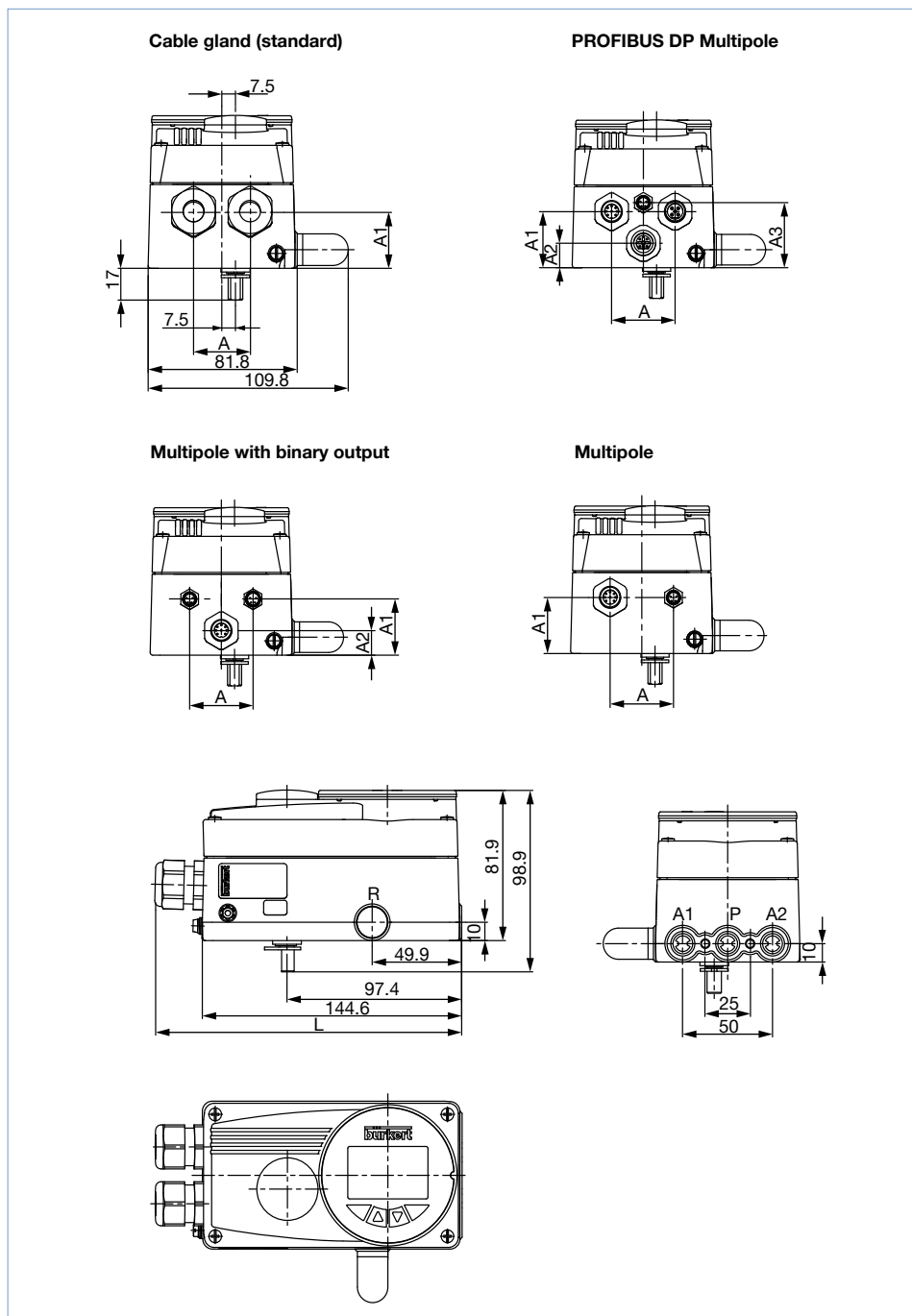
Product properties	
Output function	3-wire, normally open contact, PNP
Electrical data	
Electrical connection	M12, 4 pin
Operating voltage	10...30 V DC
Protection class	III acc. to DIN EN 61140
DC rated current	≤ 100 mA
Residual ripple	≤ 10 % U _{ss}
Approvals and Certificates	
Degree of protection	IP65 and IP67
Conformity	EMC directive 2014/30/EU

2. Dimensions

2.1. NAMUR version

Note:

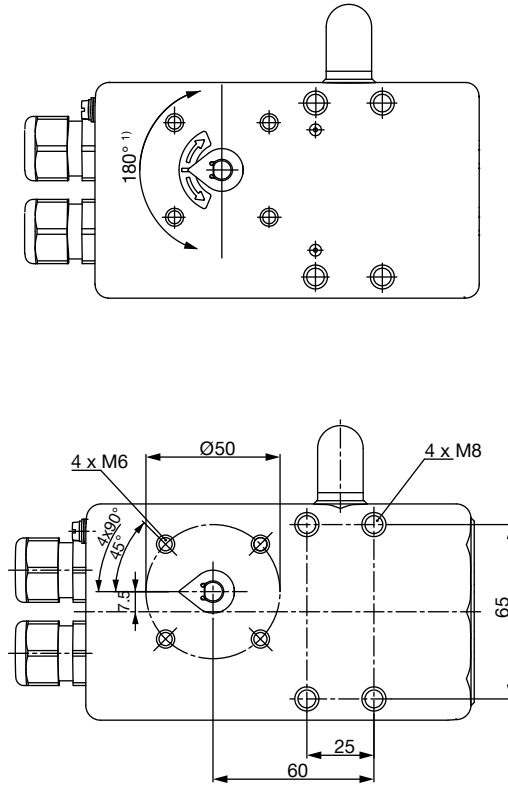
Dimensions in mm



Description	L	A	A1	A2	A3
Standard	171.1	31	30	–	–
PROFIBUS DP	157.8	36	31	13.5	36.1
Multipole binary output	157.6	36	31	13.5	–
Multipole	157.6	36	31	–	–

Note:

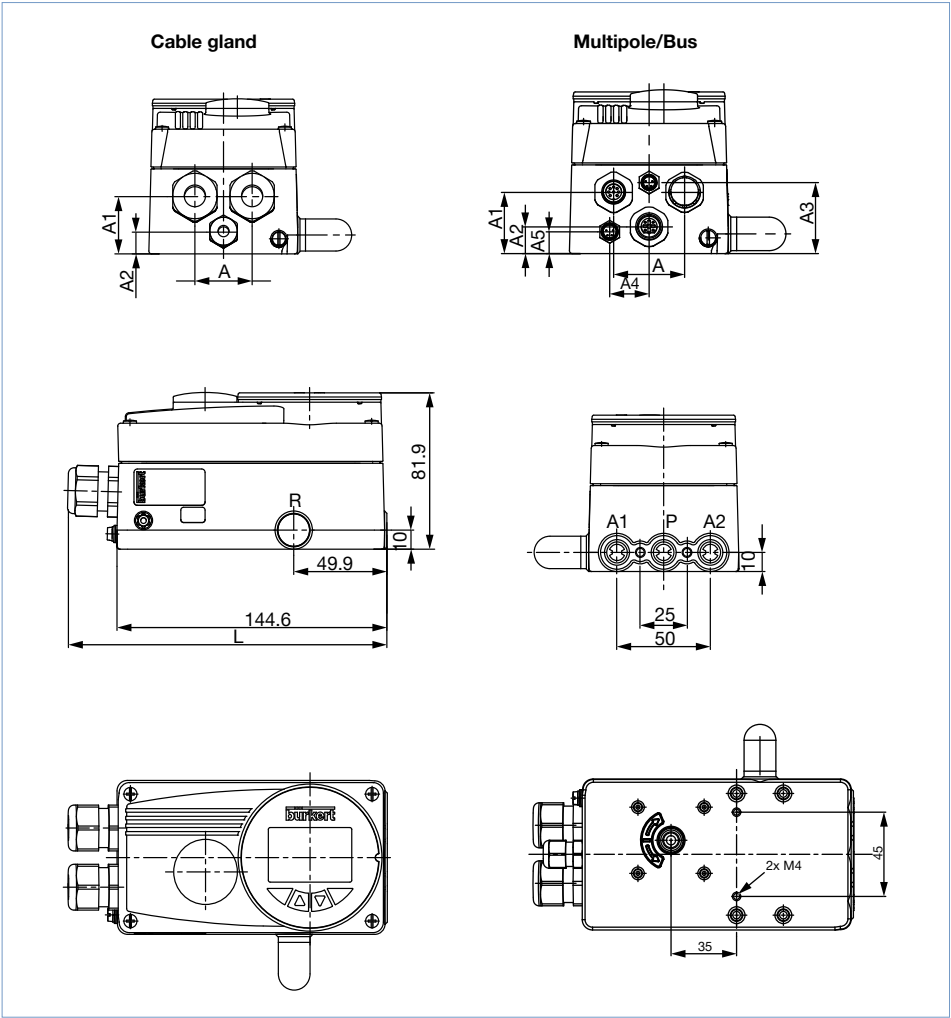
- The rotation angle of the sensor must be within a range of 180°^{1.)}.
- With the valve open approx. 50 %, the sensor indicator should be in this position.
- Dimensions in mm



1.) For the EtherNet/IP, PROFINET, Modbus TCP and bÜS versions a max. of 180° is possible, for the other versions max. 150°.

2.2. Remote version

Note:
Dimensions in mm

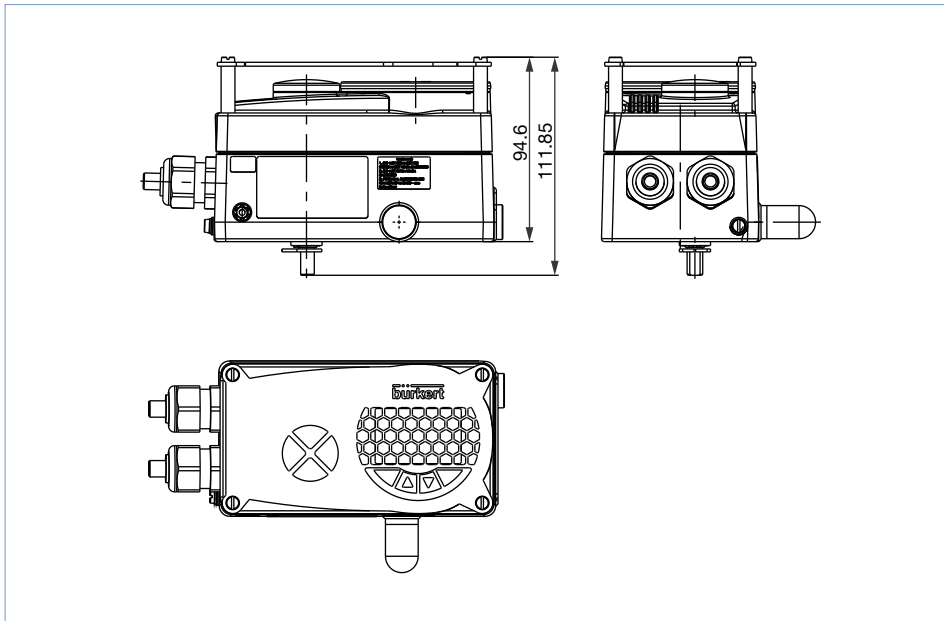


Description	L	A	A1	A2	A3	A4	A5
Remote cable gland	171.1	31	30	11.5	–	–	–
Remote multipole/bus	157.8	36	31	13.5	36	20	11

2.3. ATEX/IECEEx version

Note:

Dimensions in mm

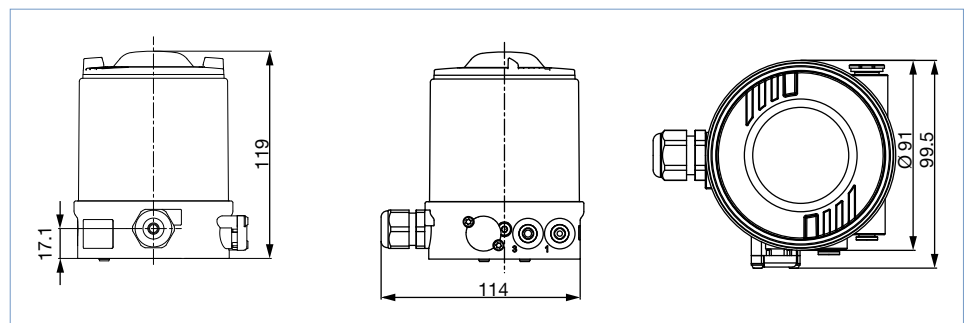


2.4. Remote position sensor version

Note:

Dimensions in mm

Linear position sensor, Type 8798, for valve position detection of Bürkert ELEMENT and hygienic process valves for the remote SideControl positioner .

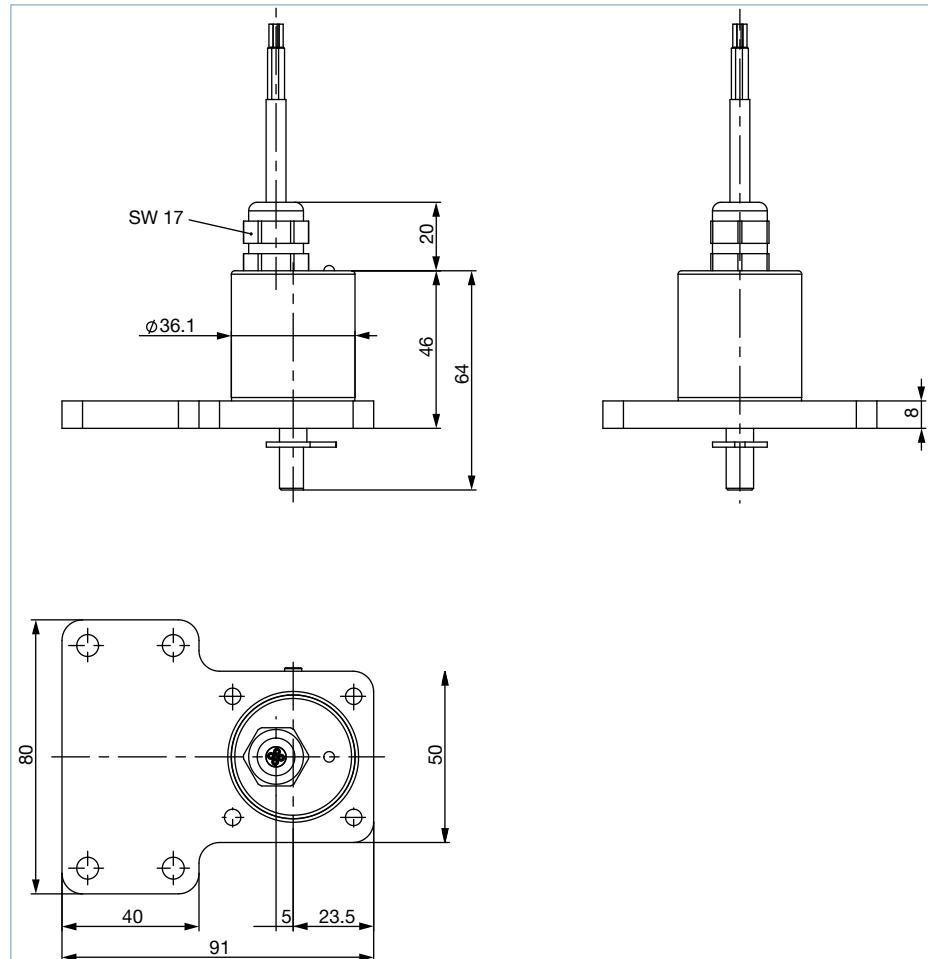


2.5. Mounting on control valve acc. to NAMUR

Note:

Dimensions in mm

Rotative position sensor to detect rotary motion of rotary actuators acc. to NAMUR/IEC 60534-6-1 and VDI/VDE 3845 (IEC 60534-6-2) for the remote SideControl positioner.



3. Device/Process connections

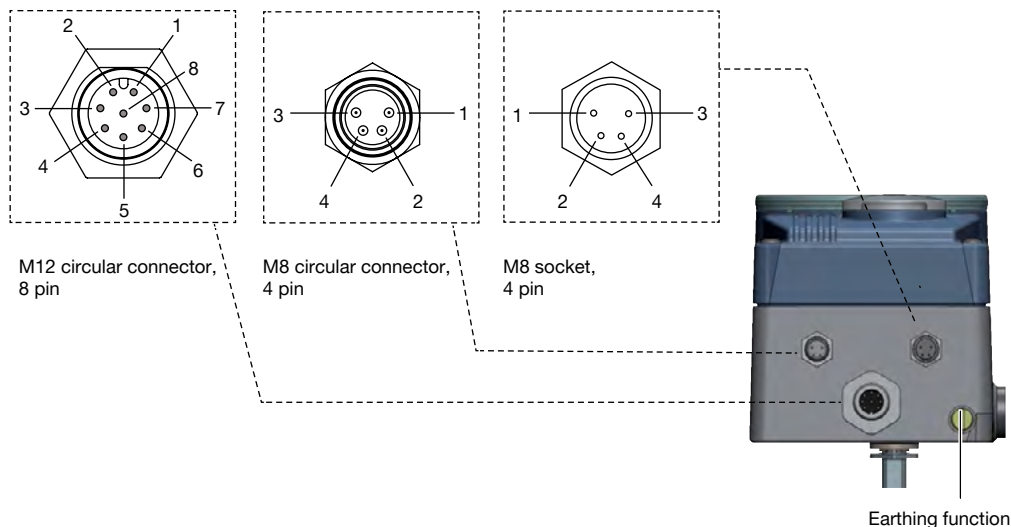
3.1. Electrical connections

Multipole connection

Operating voltages
and diverse signals

Actual process value

Binary output



M12 circular plug, 8 pin (setpoint)

Pin	Pin assignment	Outer circuitry/Signal level		
1	Setpoint + (0/4...20 mA or 0...5/10 V)	1		+ (0/4...20 mA or 0...5/10 V) Completely galvanically isolated
2	Setpoint GND	2		GND
3	GND	3		24 V DC $\pm 10\%$ Max. residual ripple 10 %
4	+24 V	4		
5	Binary input +	5		+
6	Binary input GND	6		0...5 V (log. 0) 10...30 V (log. 1)
Option analogue feedback				
8	Analogue feedback +	8		+ (0/4...20 mA or 0...5/10 V) Completely galvanically isolated
7	Analogue feedback GND	7		GND

M8 socket, 4 pin (only for binary outputs options)

Pin	Pin assignment	Outer circuitry/Signal level		
1	Binary output 1	1		24 V/0 V, NC/NO Relative to operating voltage GND (terminal GND)
2	Binary output 2	2		24 V/0 V, NC/NO Relative to operating voltage GND (terminal GND)
3	Binary output GND	3		GND

Round plug M8, 4 pin (actual process value)

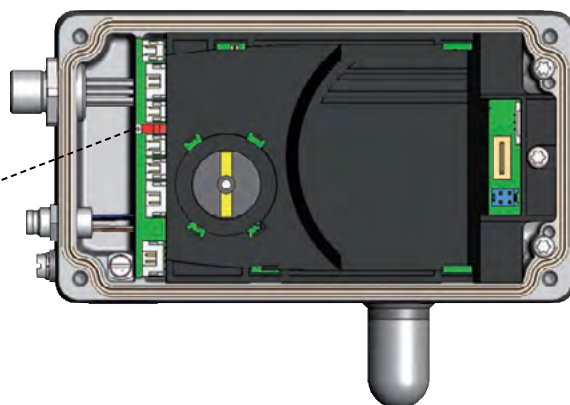
Symbols for
switch position

Switch on right



Switch on left

Location of switches

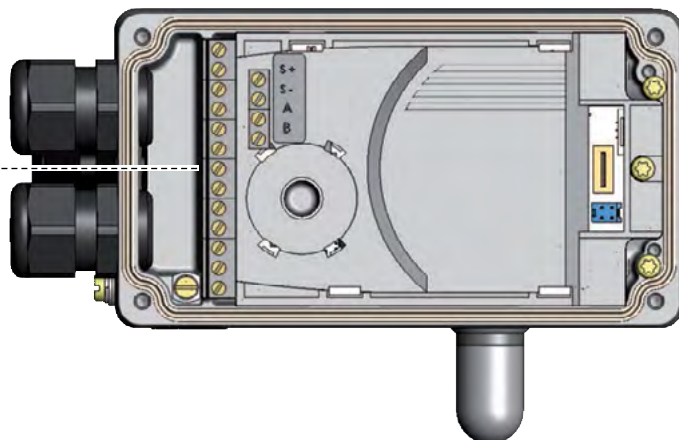


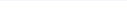
Input type ^{1.)}	Pin	Pin assignment	DIP switch	Outer circuitry
4...20 mA internally supplied	1	+24 V Transmitter supply	 Switch on left	
	2	Output from transmitter		
	3	GND identical with GND operating voltage		
	4	Bridge acc. to GND (GND via 3-wire Transmitter)		
4...20 mA externally supplied	1	Not assigned	 Switch on right	–
	2	Process actual value +		2 — 4...20 mA
	3	Not assigned		–
	4	Process actual value –		4 — GND
Frequency internally supplied	1	+24 V Sensor supply	 Switch on left	1 — +24 V
	2	Clock input +		2 — Clock +
	3	Clock input – (GND identical with GND operating voltage)		3 — Clock –
	4	Not assigned		–
Frequency externally supplied	1	Not assigned	 Switch on right	–
	2	Clock input +		2 — Clock +
	3	Clock input –		3 — Clock –
	4	Not assigned		–
Pt 100	1	Not assigned	 Switch on right	
	2	Process actual value 1 (power supply)		
	3	Process actual value 3 (GND)		
	4	Process actual value 2 (compensation)		

1.) Adjustable via Software

Terminal assignment

Terminal	Assignment
1	A
2	
3	
4	
+24 V	S +
GND	
83 +	
85 +	
31 +	S -
32 -	
11 +	
12 -	
81 +	A
	B



Terminal	Pin assignment	Outer circuitry/Signal level									
11 +	Setpoint +	11 +		+ (0/4...20 mA or 0...5/10 V) Completely galvanically isolated							
12 –	Setpoint GND	12 –		GND							
81 +	Binary input +	81 +		<table><tr><td rowspan="2">+</td><td rowspan="2"></td><td>0...5 V (log. 0)</td></tr><tr><td>10...30 V (log. 1)</td></tr><tr><td colspan="3">Relative to operating voltage GND (terminal GND)</td></tr></table>	+		0...5 V (log. 0)	10...30 V (log. 1)	Relative to operating voltage GND (terminal GND)		
+		0...5 V (log. 0)									
		10...30 V (log. 1)									
Relative to operating voltage GND (terminal GND)											
+24 V	Operating voltage +	+24 V		24 V DC ± 10 %							
GND	Operating voltage GND	GND		Max. residual ripple 10 %							

Terminal	Pin assignment	Outer circuitry/Signal level		
83 +	Binary output 1	83 +		24 V/0 V, NC/NO Relative to operating voltage GND (terminal GND)
85 +	Binary output 2	85 +		24 V/0 V, NC/NO Relative to operating voltage GND (terminal GND)
31 +	Analogue feedback +	31 +		+ (0/4...20 mA or 0...5/10 V) Completely galvanically isolated
32 –	Analogue feedback GND	32 –		GND analogue feedback

For variants without remote version: Terminals A, B, S+, S- not connected

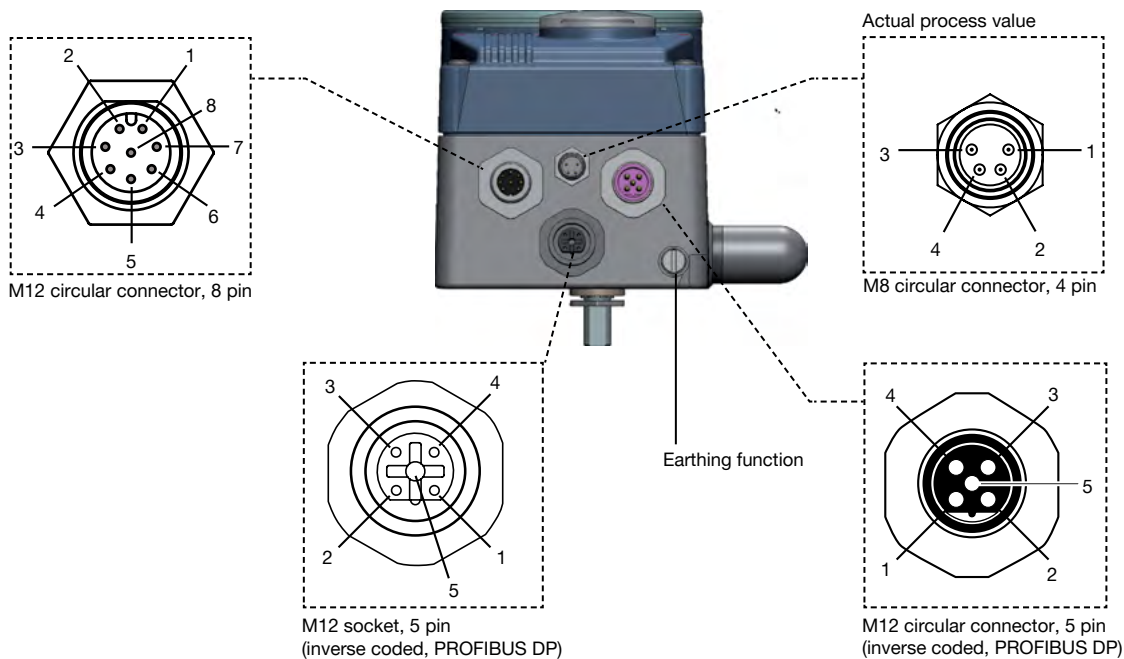
Terminal		Pin assignment	Outer circuitry/Signal level			
Remote position sensor	A	Serial interface, A-line	A		A-line	 Remote sensor Type 8798
	B	Serial interface, B-line	B		B-line	
	S +	Sensor supply +	S +		+	
	S –	Sensor supply –	S –		–	

Terminal assignments of the process actual value - input (circular plug M8)

Input type ^{1.)}	Terminal	Pin assignment	Outer circuitry
4...20 mA internally supplied	Process actual value	1 + 24 V Input Transmitter	
		2 Output from transmitter	
		3 Bridge acc. to GND (GND from 3-conductor transmitter)	
		4 Not assigned	
	GND	GND of operating voltage	
4...20 mA externally supplied	Process actual value	1 Not assigned	
		2 Process actual value +	
		3 Process actual value -	
		4 Not assigned	
Frequency internally supplied	Process actual value	1 + 24 V Sensor supply	
		2 Clock input +	
		3 Not assigned	
		4 Clock input -	
	GND	GND of operating voltage	
Frequency externally supplied	Process actual value	1 Not assigned	
		2 Clock input +	
		3 Not assigned	
		4 Clock input -	
Pt 100	Process actual value	1 Not assigned	
		2 Process actual value 1 (power supply)	
		3 Process actual value 3 (GND)	
		4 Process actual value 2 (compensation)	

1.) Adjustable via Software

PROFIBUS DP Connection



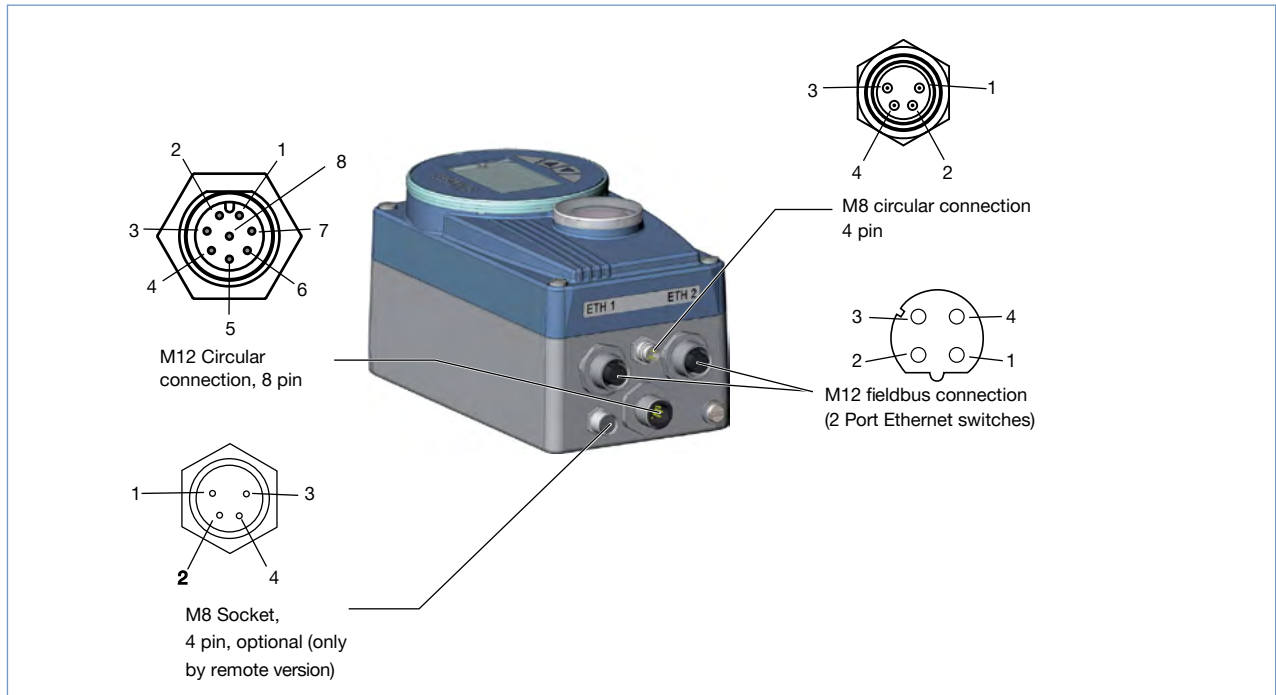
Operating voltage - M12 Circular plug, 8 pin

Pin	Pin assignment	Outer circuitry/Signal level	
1	Not assigned		
2	Not assigned		
3	GND	3	24 V DC ± 10 %
4	+ 24 V	4	Max. residual ripple 10 %
5	Binary input +		
6	Binary input -		
7	Binary output 1 (relative to pin 3)		
8	Binary output 2 (relative to pin 3)		

Fieldbus connection - socket/ M12 circular plug, 5 pin

Pin	Pin assignment	Outer circuitry/Signal level
1	VP+ 5	Load resistance supply
2	RxD/TxD-N	Receive/transmit data -N, A-line
3	DGND	Data transfer potential (Ground to 5 V)
4	RxD/TxD-P	Receive/transmit data -P, B-line
5	Shielding	Shielding/protective earth

EtherNet/IP-, PROFINET-, Modbus TCP-Connection

**M12 fieldbus connection D-coded**

Connection for EtherNet/IP takes place via M12 circular connector , 4 pin, D-coded

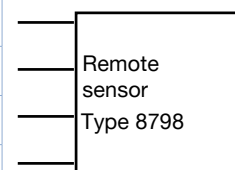
Pin	Description
1	Transmit +
2	Receive +
3	Transmit -
4	Receive -

Operating voltage - M12 circular plug, 8 pin

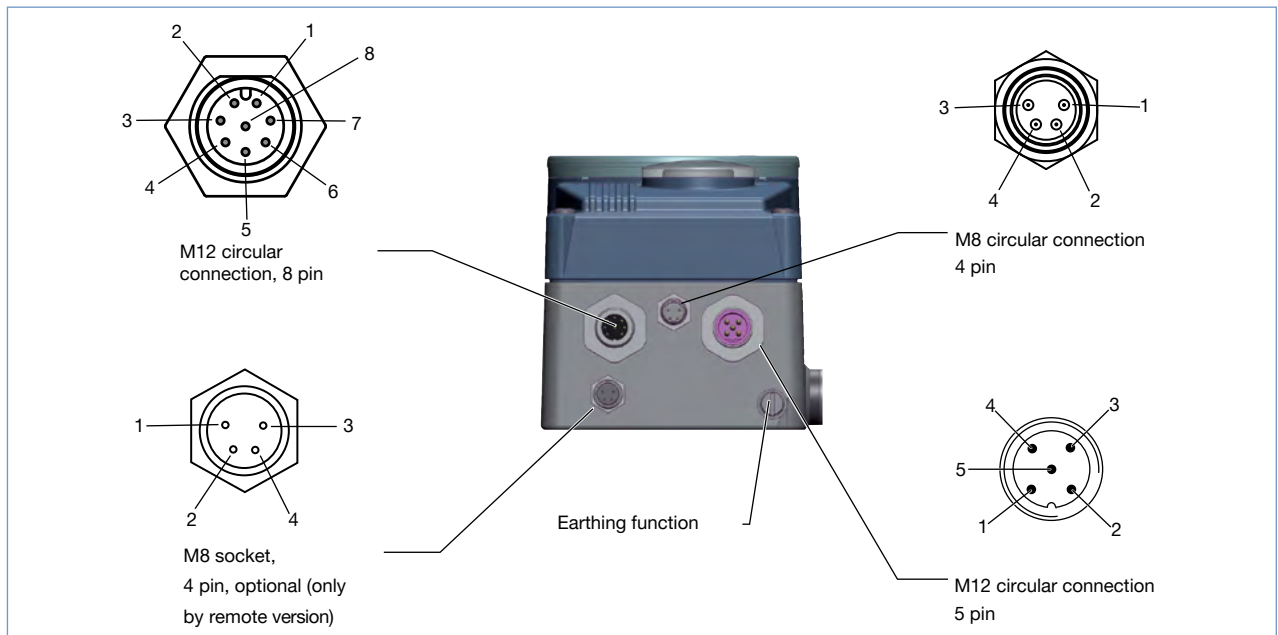
Pin	Pin assignment	Device side	Outer circuitry/Signal level
1	Not assigned		
2	Not assigned		
Operating voltage			
3	GND	3	24 V DC $\pm 10\%$
4	+24 V	4	Max. residual ripple 10 %
Input signal of the control centre (e. g. SPS)			
5	Binary input +	5	0...5 V (log. 0) 10...30 V (log. 1)
6	Binary input GND	6	GND (identical to pin 3)
Output signal of the control centre (e. g. SPS) - (only used with binary output option)			
7	Binary output 1 (relative to pin 3)	7	0...24 V
8	Binary output 2 (relative to pin 3)	8	0...24 V

Connection of digital remote position sensor Type 8798 - M8 socket, 4 pin (optional)

Pin	Pin assignment	Outer circuitry/Signal level
1	Sensor supply +	S +
2	Sensor supply -	S -
3	Serial interface, A-line	A
4	Serial interface; B-line	B



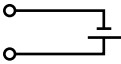
Bürkert system bus (būS) connection



Fieldbus connection - M12x1 circular plug, 5 pin

Pin	Cable colour	Description
1	CAN Shield/Shielding	CAN Shield/Shielding
2	Not assigned	
3	Black	GND/CAN_GND
4	White	CAN_H
5	Blue	CAN_L

Operating voltage - M12 circular plug, 8 pin

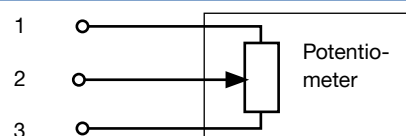
Pin	Pin assignment	Device side		Outer circuitry/Signal level	
1	Not assigned				
2	Not assigned				
Operating voltage					
3	GND	3		24 V DC ± 10 %	
4	+24 V	4		Max. residual ripple 10 %	
Input signal of the control centre (e. g. SPS)					
5	Binary input +	5			0...5 V (log. 0) 10...30 V (log. 1)
6	Binary input GND	6		GND (identical to pin 3)	
Output signal of the control centre (e. g. SPS) - (only used with binary output option)					
7	Binary output 1 (relative to pin 3)	7		0...24 V	
8	Binary output 2 (relative to pin 3)	8		0...24 V	

Connection of digital remote position sensor Type 8798 - M8 socket, 4 pin (optional)

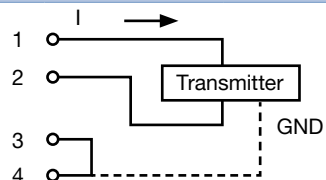
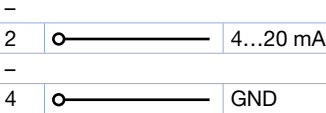
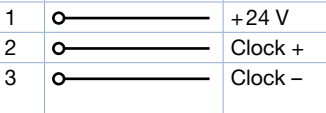
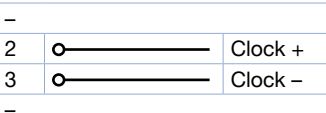
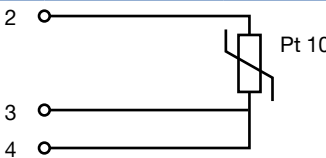
Pin	Pin assignment	Outer circuitry/Signal level
1	Sensor supply +	S + +
2	Sensor supply -	S - -
3	Serial interface, A-line	A A-line
4	Serial interface, B-line	B B-line

Remote sensor
Type 8798

Connection of analogue remote position sensor - M8 socket, 4 pin (optional)

Pin	Pin assignment	On device side	Outer circuitry
1	Potentiometer 1		
2	Wiper 2		
3	Potentiometer 3		
4	Not assigned		

M8 circular plug, 4 pin - process actual value (for Type 8793)

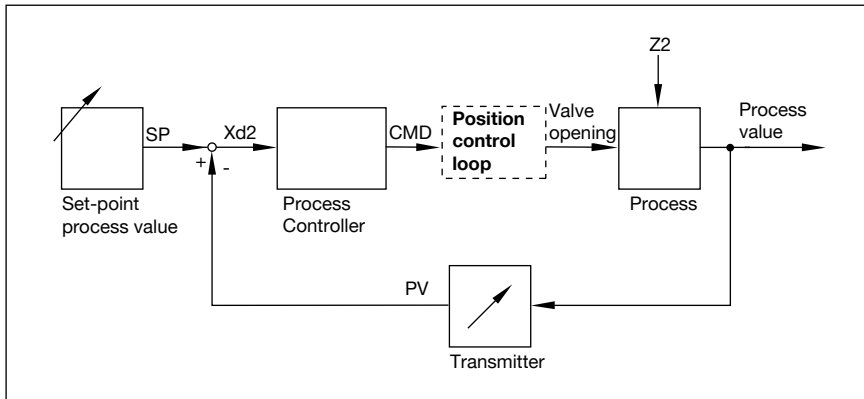
Input type ^{1.)}	Pin	Pin assignment	DIP switch	Outer circuitry
4...20 mA internally supplied	1	+24 V Transmitter supply	 Switch on left	
	2	Output from transmitter		
	3	GND identical with GND Operating voltage		
	4	Bridge acc. to GND (GND via 3-wire Transmitter)		
4...20 mA externally supplied	1	Not assigned	 Switch on right	
	2	Process actual value +		
	3	Not assigned		
	4	Process actual value -		
Frequency internally supplied	1	+24 V Sensor supply	 Switch on left	
	2	Clock input +		
	3	Clock input - (GND identical with GND Operating voltage)		
	4	Not assigned		
Frequency externally supplied	1	Not assigned	 Switch on right	
	2	Clock input +		
	3	Clock input -		
	4	Not assigned		
Pt 100	1	Not assigned	 Switch on right	
	2	Process actual value 1 (power supply)		
	3	Process actual value 3 (GND)		
	4	Process actual value 2 (compensation)		

1.) Adjustable via software

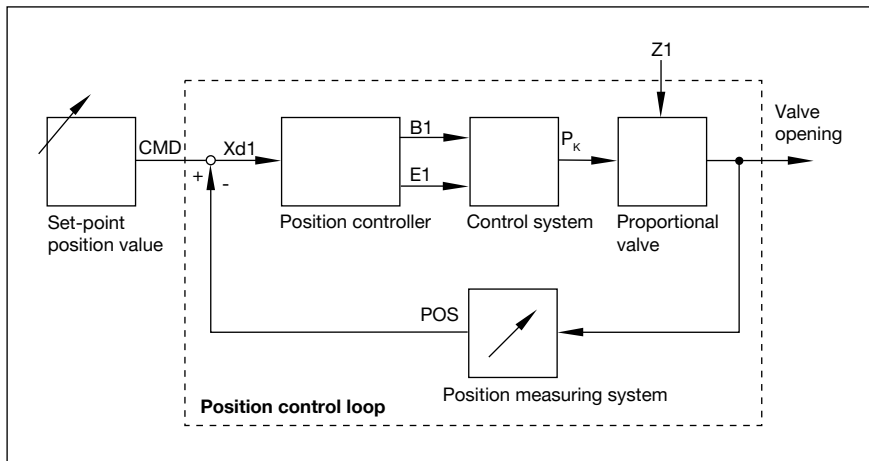
4. Performance specifications

4.1. Signal flow diagram

Process control loop



Position control loop



Additional software options of the process controller SideControl Type 8793 (extract)

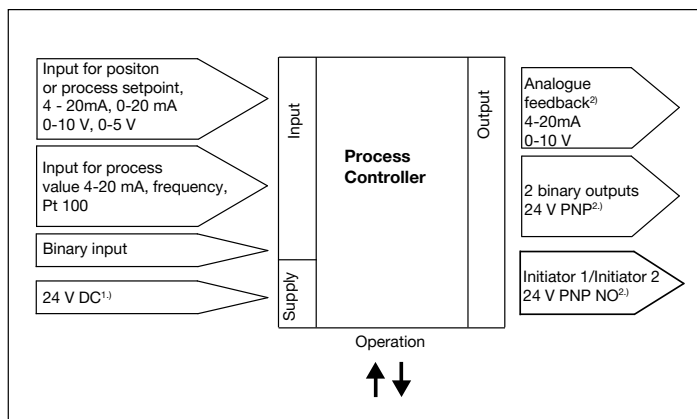
- Automatic start of the control system
- Automatic parameterisation of the process control loop
- Automatic or manual characteristics curves selection
- Setting of the seal and the maximum stroke threshold respectively
- Parameterisation of the positioner
- Manual parameterisation of process controller
- Limitation of the stroke range
- Limitation of the manipulating speed
- Setting of the moving direction
- Configuration of the binary input
- Signal range splitting on several controllers
- Configuration of analogue or 2 binary outputs
- Signal fault detection
- Safety position
- Code protection
- Contrast inversion of the display

- Parameterisable diagnostic functions^{1.)}/Binary output (option)
 - Operating-hours counter
 - Path accumulator
 - Position monitoring
 - Process actual value monitoring
 - Graphical display of the dwell time density and movement range
 - Monitoring of the mechanical end positions in the armature

1.) Further diagnostic functions with detailed description can be found in the **operating instructions** ►.

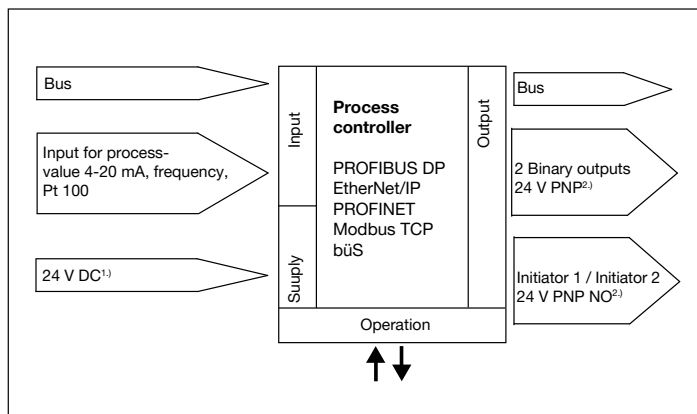
4.2. Interface diagram

Analogue version without fieldbus interface



Version with fieldbus interface

PROFIBUS DP, EtherNet/IP, PROFINET, Modbus TCP and Bürkert system bus (būS)



1.) The operating voltage is supplied with a 3-wire unit independent from the setpoint signal

2.) Alternative options

5. Product installation

5.1. Mounting options

NAMUR version

Note:

Positioner with integrated position sensor, mounting acc. to NAMUR/IEC 60534-6-1 and VDI/VDE 3845 (IEC 60534-6-2)

The NAMUR version of the SideControl positioner is equipped with an integrated position sensor (linear or rotary). It has a standardized interface for direct attachment to linear actuators acc. to NAMUR/IEC 60534-6-1 and VDI/VDE 3845 (IEC 60534-6-2).

Linear actuators

See [operating manual](#) ►



Description	Article no.
Adapter kit	787215

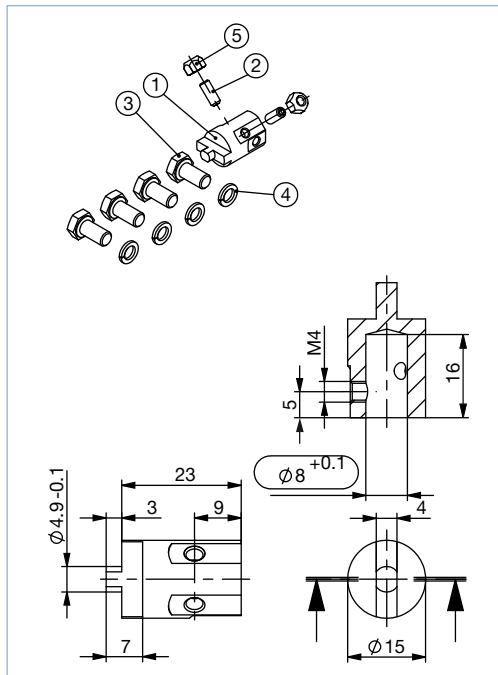
Rotary actuators

See [operating manual](#) ►



Description	Article no.
Adapter kit	787338
Mounting bridge	770294

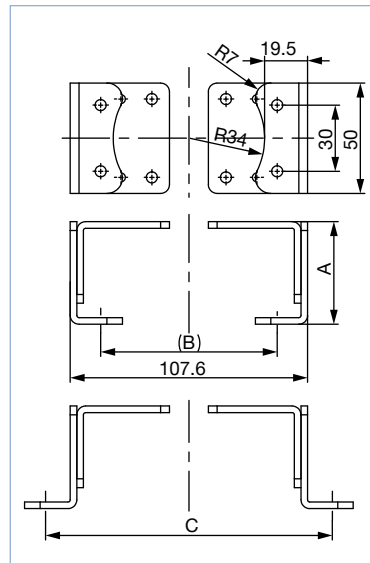
Attachment kit for rotary actuators



Actuator shaft height	A	B	C
[mm]	[mm]	[mm]	[mm]
20	46.5	80	–
30	56.5	80	130
50	76.5	–	130

Description	Article no.
Attachment kit for rotary actuators	787338

Mounting bridge for rotary actuator



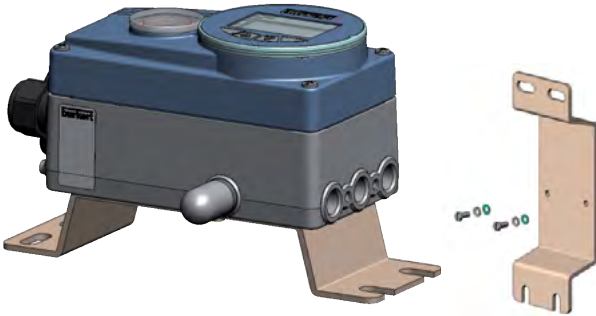
Remote version

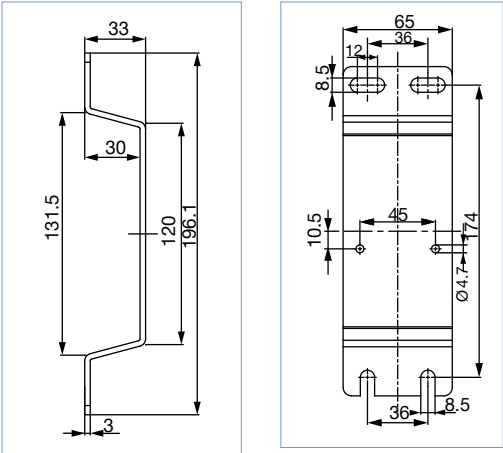
Note:

- Dimensions in mm
- 2 mounting options

The remote version of the SideControl positioner is used to control process control valves in combination with a remote position sensor. The remote position sensor is mounted directly on the valve to detect the valve position. The remote positioner can be mounted on the wall or on a DIN rail in a control cabinet.

Wall mounting with assembly brackets



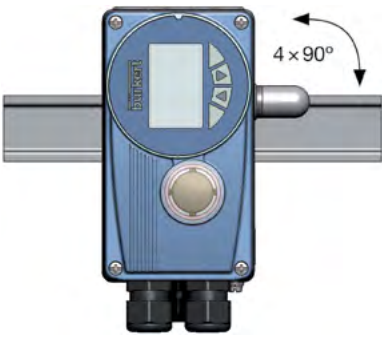


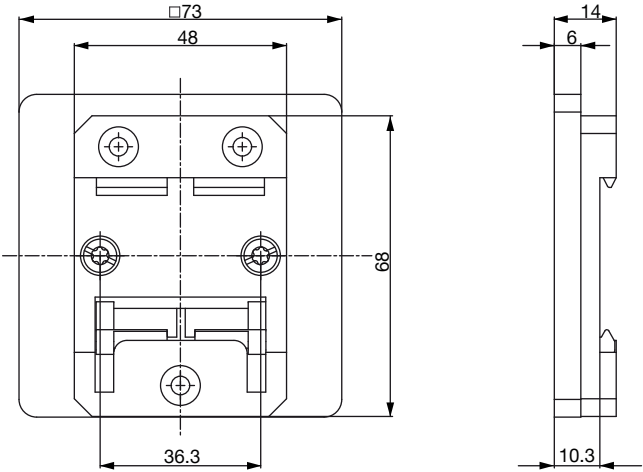
Description	Article no.
Brackets for wall mounting	675715 

Mounting on DIN-rail

Note:

- The adapter can be turned by 90° on the DIN rail.
- Dimensions in mm

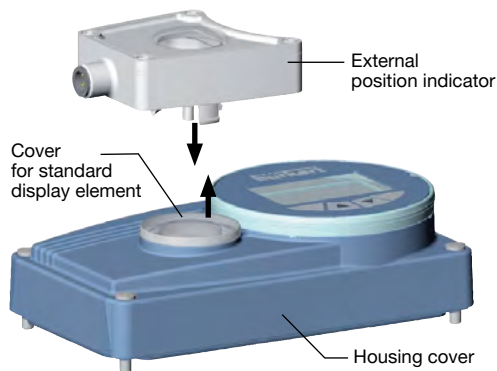




Description	Article no.
Holder for DIN rail mounting	675702 

Position feedback with proximity switches**Note:**

Upgrade feature for SideControl NAMUR



Connecting external position indicator

Description	Article no.
Position feedback	677218

5.2. Combination possibilities with pneumatic process valves**Note:**Detailed ordering information can be found in the chapter **“6.3. Ordering chart”** on page 26.

Process controller SideControl 8793	8793 NAMUR	8793 Remote	8793 Remote
	Linear actuators IEC 60534 - 6 - 1 Rotary actuators VDI/VDE 3845 (IEC 60534 - 6 - 2) Type 8805 ▶ Ball valve/Butterfly valve with pneumatic rotary actuator	Linear actuators IEC 60534 - 6 - 1 Rotary actuators VDI/VDE 3845 (IEC 60534 - 6 - 2) Type 8798 ▶ Remote sensor for pneumatically actuated process valves	Control valve system Type 2300 ▶ Pneumatically actuated 2-way angle seat control valve ELEMENT + Type 8798 ▶ Remote sensor for pneumatically actuated process valves

6. Ordering information

6.1. Bürkert eShop – Easy ordering and quick delivery



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6.3. Ordering chart

Process controller SideControl Type 8793 NAMUR version

Note:

- Mounting according to NAMUR IEC 60534-6-1 resp. VDI/VDE 3845 (IEC 60534-6-2)
- Further versions on request

Communication	Electrical connection	Analogue feedback	2 Binary output	Diagnostics ^{1.)}	cCSAus	ATEX II 3 GD/IECEX CCC ^{2.)}	Article no.
Single and double-acting with universal air capacity							
Without Fieldbus communication	Cable gland	–	–	–	Yes	–	317976
		–	Yes	Yes	Yes	–	317978
		Yes	Yes	Yes	Yes	–	317977
		Yes	Yes	Yes	–	Yes	318040
		–	Yes	Yes	–	Yes	318041
	Multipole	–	–	–	Yes	–	317979
		–	Yes	Yes	Yes	–	317981
PROFIBUS DP-V1	Multipole	Via Bus	–	–	Yes	–	206600
		Via Bus	Yes	Yes	Yes	–	206601
EtherNet/IP	Multipole	Via Bus	–	Yes	Yes	–	317930
		Via Bus	Yes	Yes	Yes	–	317931
PROFINET	Multipole	Via Bus	–	Yes	Yes	–	317940
		Via Bus	Yes	Yes	Yes	–	317941
Modbus TCP	Multipole	Via Bus	–	Yes	Yes	–	317950
		Via Bus	Yes	Yes	Yes	–	317951
Bürkert system bus (bùS)	Multipole	Via Bus	–	Yes	Yes	–	317960
		Via Bus	Yes	Yes	Yes	–	317961

1.) See “Additional software options of the process controller SideControl Type 8793 (extract)” on page 20

2.) CCC (China Compulsory Certificate) for device versions with Ex approval.

Process controller SideControl Type 8793 remote version

Note:

Further versions on request

Communication	Electrical connection	Analogue feedback	2 Binary output	Diagnostics ^{1.)}	cCSAus	ATEX II 3 GD/IECEX CCC ^{2.)}	Article no.
Single-acting with low air capacity for actuator series Type 23xx (Ø70/90 mm)							
Without Fieldbus communication	Cable gland	–	–	–	Yes	–	318015 
		–	Yes	Yes	Yes	–	318013 
		Yes	Yes	Yes	Yes	–	318012 
EtherNet/IP	Multipole	Via Bus	Yes	Yes	Yes	–	317937 
PROFINET		Via Bus	Yes	Yes	Yes	–	317947 
Modbus TCP		Via Bus	Yes	Yes	Yes	–	317957 
Bürkert system bus (büS)		Via Bus	Yes	Yes	Yes	–	317967 
Single and double-acting with universal air capacity for actuator series Type 23xx (Ø130 mm) and 27xx (Ø175/225 mm)							
Without Fieldbus communication	Cable gland	–	–	–	Yes	–	317982 
		Yes	Yes	Yes	Yes	–	317983 
		–	Yes	Yes	Yes	–	317984 
		Yes	Yes	Yes	–	Yes	318042 
EtherNet/IP	Multipole	Via Bus	Yes	Yes	Yes	–	317934 
PROFINET		Via Bus	Yes	Yes	Yes	–	317944 
Modbus TCP		Via Bus	Yes	Yes	Yes	–	317954 
Bürkert system bus (büS)		Via Bus	Yes	Yes	Yes	–	317964 

1.) See "Additional software options of the process controller SideControl Type 8793 (extract)" on page 20

2.) CCC (China Compulsory Certificate) for device versions with Ex approval.

Remote position sensor for remote version of SideControl Type 8793

Product	Mounting version	Electrical connection	cULus	ATEX II 3 GD/IECEx CCC ^{1.)}	Article no.
Mounting on control valves					
	Control valve Type 23xx	Cable gland - 10 m round cable	Yes	–	212360 
		Cable gland - 10 m round cable	–	Yes	226860 
	Control valve Type 27xx	Cable gland - 10 m round cable	Yes	–	211535 
		Cable gland - 10 m round cable	–	Yes	226859 
NAMUR mounting					
	NAMUR (rotative)	Cable gland -2 m round cable (extendable to 10 m max.)	Yes	–	211536 

1.) CCC (China Compulsory Certificate) for device versions with Ex approval.

6.4. Ordering chart Accessories

Standard accessories

Note:

The corresponding communication software can be downloaded from www.buerkert.com, see **Type 8793** ►.

Description	Article no.
M12 socket, 8 pin with 5 m cable for power supply and input/output signals	919267
M8 plug, 4 pin for binary outputs, with solder joints	917131
M8 socket, 4 pin with 5 m cable for process actual value from sensor	264602
USB bÜS interface Set (bÜS-Stick + connection cable with M12 plug + connection cable M12 on micro USB for the bÜS service interface) to connect with PC-Tool Bürkert Communicator (only for device versions with EtherNet/IP, PROFINET, Modbus TCP and Bürkert system bus (bÜS))	772551
bÜS cable extension M12, length 1 m	772404
bÜS cable extension M12, length 3 m	772405
bÜS cable extension M12, length 5 m	772406
bÜS cable extension M12, length 10 m	772407
Silencer G ¼" (replacement part)	780780
USB interface for serial communication (only for devices with PROFIBUS communication)	227093
Software Bürkert Communicator	LINK ►

Accessories for NAMUR SideControl

Note:

Detailed information can be found in chapter **"5. Product installation"** on page 22

Description	Article no.
Mounting bridge VDI/VDE 3845 (IEC 60534 - 6 - 2) VA	770294
Adapter kit VDI/VDE 3845 (IEC 60534 - 6 - 2) VA	787338
Adapter kit for linear actuators IEC 60534 - 6 - 1 VA	787215
Position feedback with proximity switches (optional upgrade feature) ^{1.)}	677218

1.) External end position feedback for upgrading SideControl NAMUR

Accessories for Remote SideControl

Description	Article no.
Bracket for wall mounting, stainless steel, see "5. Product installation" on page 22	675715
DIN rail assembly kit Aluminium/stainless steel, see "5. Product installation" on page 22	675702
Adapter kit - remote sensor, control valves Type 23xx Actuator size Ø70/90/130 mm	679917
Adapter kit - remote sensor, control valves Type 27xx Actuator size Ø175/225 mm	679945
Sensor Puck (replacement part)	682240

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