

## Digital electropneumatic Positioner SideControl



Type 8792 can be combined with...



Yoke type actuators



Rotary actuators



Rotary actuators with remote positioner



Process control valve with remote positioner



Hygienic process control valve with remote positioner

- Compact and robust design
- Easy to start using Tune function
- Integrated diagnostic functions for valve monitoring
- Dynamic positioning system with no air consumption in controlled state
- PROFIBUS DP-V1, DeviceNet, EtherNet/IP, PROFINET, Modbus TCP or bÜS (Bürkert System Bus)

The robust and compact positioner is designed to standardisation 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 with the displacement position sensor can be combined with Bürkert process control valves. The digital electropneumatic positioner SideControl can be operated with the usual current and voltage standard signals and can also be equipped with the fieldbus interface. The Positioner is equipped with additional diagnostic functions to monitor the state of the valve. Through status signals, valve diagnostic messages are transmitted according to NAMUR NE 107 recommendations and recorded as history. With the diagnosis, the operating conditions of the control valve can be monitored. This allows planned maintenance and optimises plant availability. Operation occurs via the external operation and display module with a backlit graphical display. The user operation is very simple and clear, identical to the Bürkert positioner or process controller TopControl, Type 8692/8693. The pilot valve system can be used equally for single and double-acting actuators. It is characterised by a defined safety feature in case of failure of the electrical or pneumatic power supply and possesses an enormous air capacity range with pressure supply up to 7 bar.


Technical data	
<b>Material</b>	
Body	Aluminium plastic-coated
Seal	EPDM, NBR, FKM
<b>Operating voltages</b>	24 V DC $\pm$ 10 %
<b>Residual ripple</b>	Max. 10 %
<b>Setpoint setting</b>	0/4 ... 20 mA and 0 ... 5/10 V
<b>Input resistance</b>	0/4 ... 20 mA: 180 $\Omega$ 0 ... 5/10 V: 19 k $\Omega$
<b>Analogue feedback</b>	4 ... 20 mA, 0 ... 20 mA 0 ... 10 V, 0 ... 5 V
<b>Binary input</b>	Galvanically isolated, 0 ... 5 V = log "0", 10 ... 30 V = log "1"
<b>Binary output</b>	2 Outputs (optional), galvanically separated
Current limit	100 mA, Output will be synchronised when overloaded
<b>Control medium</b>	neutral gases, air, quality classes acc. to ISO 8573-1
Dust concentration	Class 7 (<40 $\mu$ m particle size)
Particle density	Class 5 (<10 mg/m <sup>3</sup> )
Pressure condensation point	Class 3 (<-20 °C)
Oil concentration	Class X (<25 mg/m <sup>3</sup> )
<b>Ambient temperature</b>	- 10 to +60 °C (without Ex-Approval) 0 to +60 °C (with ATEX / IECEx-Approval)
<b>Pilot air ports</b>	Threaded ports G 1/4
<b>Supply pressure</b>	1.4 ... 7 bar <sup>1) 2)</sup>
<b>Air supply filter</b>	Exchangeable (aperture size ~0.1 mm)
<b>Actuator system</b>	Single and double-acting to 150 l <sub>N</sub> /min.
Air capacity	50 l <sub>N</sub> /min (with 1.4 bar <sup>2)</sup> ) for aeration and ventilation 150 l <sub>N</sub> /min (with 6 bar <sup>2)</sup> ) for aeration and ventilation (Q <sub>Nr</sub> = 100 l <sub>N</sub> /min (acc. to the definition with decrease in pressure from 7 ... 6 bar absolute)

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

<sup>2)</sup> Pressure specifications: Overpressure with respect to atmospheric pressure

continued on next page

## Technical data, continued

Technical data		
<b>Integrated transducer (NAMUR)</b>		Conductive plastic rotary potentiometer
<b>Measuring range</b>		Angle of rotation 30° to 180° Angle of rotation 30° to 150°
EtherNet/IP, PROFINET, Modbus TCP and büS other versions		
<b>Stroke range for attachment to linear actuators</b>		3 to 130mm, depending on the lever of the mounting kit
<b>Installation</b>		As required, display above or sideways
<b>Type of protection</b>		IP65/IP67 acc. to EN 60529, Type 4X acc. to NEMA 250 standard
<b>Power consumption</b>		<5 W
<b>Electrical connection</b>		M12, 8 pin/4 pin; M8, 4 pin
Multipole connection		2x M20 × 1.5 (cable Ø 6... 12 mm) on screw terminals (0.14... 1.5 mm <sup>2</sup> )
Cable gland		
Remote version		1x M12 × 1.5 (cable Ø 3... 6.5 mm)
<b>Bus communication</b>		PROFIBUS DP-V1, DeviceNet, EtherNet/IP, PROFINET, Modbus TCP or büS (based on CANopen)
<b>Protection class</b>		III acc. to DIN EN 61140
<b>Conformity</b>		EMC directive 2014/30/EU
<b>CSA approval information</b>		Class 3221 82-VALVES - Actuators - Certified to US standards Class 3221 02-VALVES - Actuators
Product category code		
<b>Considered standards</b>		CAN/CSA-C22 2 No. 139 UL 429
<b>CSA trademark</b>		
<b>Ex-Approval</b>	<b>ATEX</b>	⊕ II 3G Ex ec ic IIC T4 Gc / ⊕ II 3D Ex tc IIIC T135 °C Dc Certificate; BVS 16 ATEX E 118 X
	<b>IECEX</b>	Ex ec ic IIC T4 Gc / Ex tc IIIC T135 °C Dc Certificate; IECEX BVS 16.0091 X

Technical data - Linear Remote Position Sensor (ELEMENT)	
<b>Electrical connection</b>	
Cable gland	1x M16 × 1.5 (cable Ø 5... 10 mm) on terminal screws (0.14... 1.5 mm <sup>2</sup> )
Connection cable length	10 m
<b>Operating voltage</b>	24 V DC ± 10 %
<b>Power consumption</b>	<0.3 W
<b>Sensor measurement range</b>	3... 45 mm (Stroke range valve spindle)
<b>Actual position signal</b>	digital (RS485)
<b>Ambient temperature</b>	-25 to +80 °C
<b>Protection class</b>	III acc. to DIN EN 61140
<b>Type of protection</b>	IP65 and IP67 acc. to EN 60529, Type 4X acc. to NEMA 250 standard
<b>Type of Ignition protection</b>	II 3D Ex tc IIIC T135 °C Dc II 3G Ex nA IIC T4 Gc
<b>Conformity</b>	EMC directive 2014/30/EU
<b>Approvals</b>	cULus Certificate no. 238179

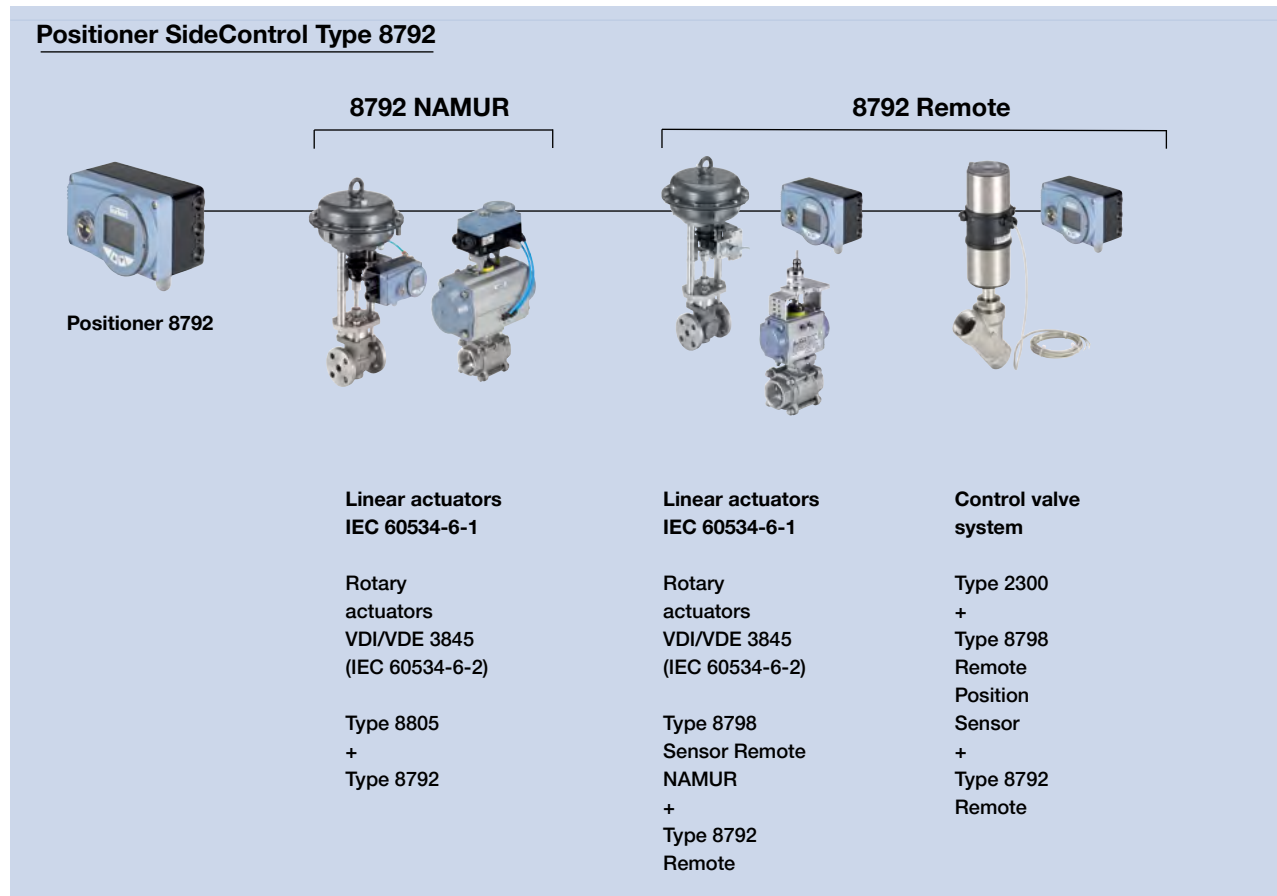
Technical data - rotative Remote Position Sensor (NAMUR)	
<b>Electrical connection</b>	
	2 m round cable (shielded)
<b>Operating voltage</b>	10... 30 V DC
<b>Residual ripple</b>	<0.8 W
<b>Stroke range for attachment to linear actuators</b>	3 to 130mm, depending on the lever of the mounting kit
<b>Measuring range</b>	Angle of rotation 30° to 180°
<b>Actual position signal</b>	digital (RS485)
<b>Ambient temperature</b>	-25 to +80 °C
<b>Protection class</b>	III acc. to DIN EN 61140
<b>Type of protection</b>	IP65 acc. to EN 60529
<b>Conformity</b>	EMC directive 2014/30/EU
<b>Approvals</b>	UL (cULus) Certificate no. E226909

Technical data - Position feedback with proximity switches (Accessory)	
<b>Electrical connection</b>	M12, 4 pin
<b>Output function</b>	3-wire, normally open contact, PNP
<b>Operating voltage</b>	10... 30 V DC
<b>Residual ripple</b>	≤ 10 % U <sub>ss</sub>
<b>DC rated current</b>	≤ 100 mA
<b>Type of protection</b>	IP65 and IP67
<b>Protection class</b>	III acc. to DIN EN 61140
<b>Conformity</b>	EMC directive 2014/30/EU
<b>Approvals</b>	cCSAus

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

Using a remote positioner the length of the control air pipes influences the dynamics and attainable accuracy of the position control loop. The length of the control air pipes therefore should be as short as possible.

## Example of assembly variations of positioner SideControl



Assembly options

NAMUR Version

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

Assembly on linear actuator



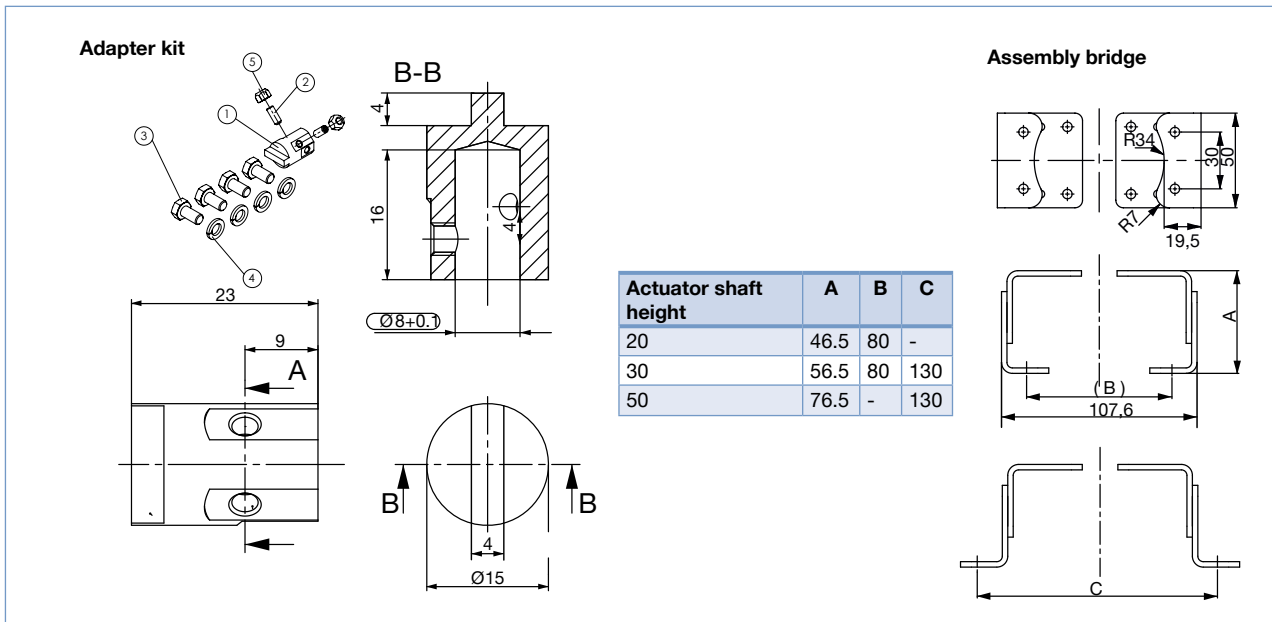
Description	Article no.
Adapter kit	787215

Assembly on rotary actuator

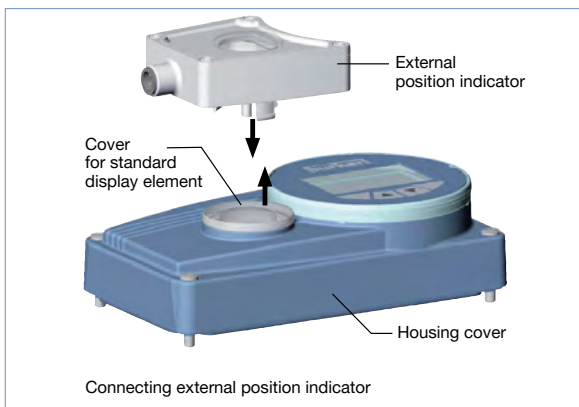


Description	Article no.
Adapter kit	787338
Assembly bridge	770294

Dimensions [mm]



Position feedback with proximity switches  
(upgrade feature for SideControl NAMUR)



Description	Article no.
Position feedback	677218



DTS 1000121137 EN Version: X Status: RL (released | freigegeben | valide) printed: 05.02.2020


Assembly options *continued*

Remote version

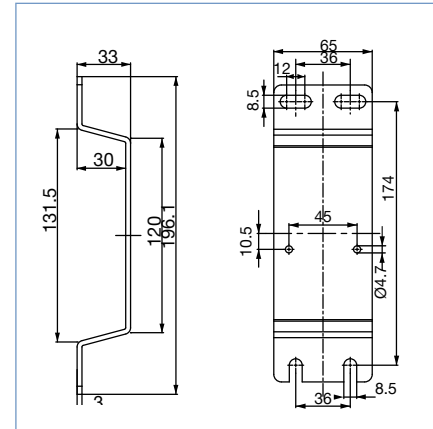
(Displaced positioner with external remote position sensor)

Assembly with accessory brackets

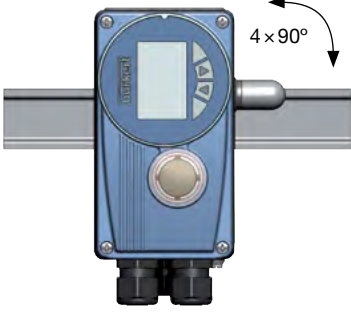



Description	Article no.
Assembly bracket for wall mounting	675715 

Dimensions [mm]




Assembly on DIN-Rail

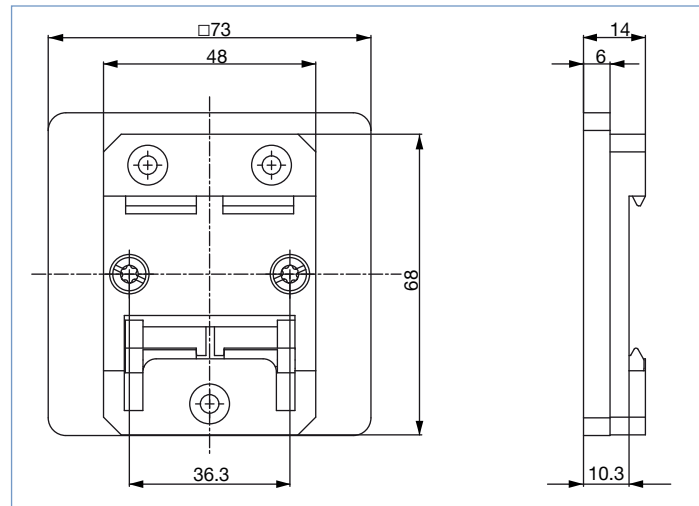


4 x 90°

The adapter can be turned every 90° on the DIN-Rail

Description	Article no.
DIN rail assembly kit	675702 

Dimensions [mm]



Assembly options *continued*

Remote version

(Remote position sensor for displaced positioner)

Type 8798



Description	Article no.	
	Standard	ATEX II 3 GD
<b>Remote Position Sensor</b>		
Mounting on control valves Type 23xx	212360	226860
Mounting on control valves Type 27xx	211535	226859



Description	Article no.
<b>Remote Position Sensor</b> NAMUR	211536

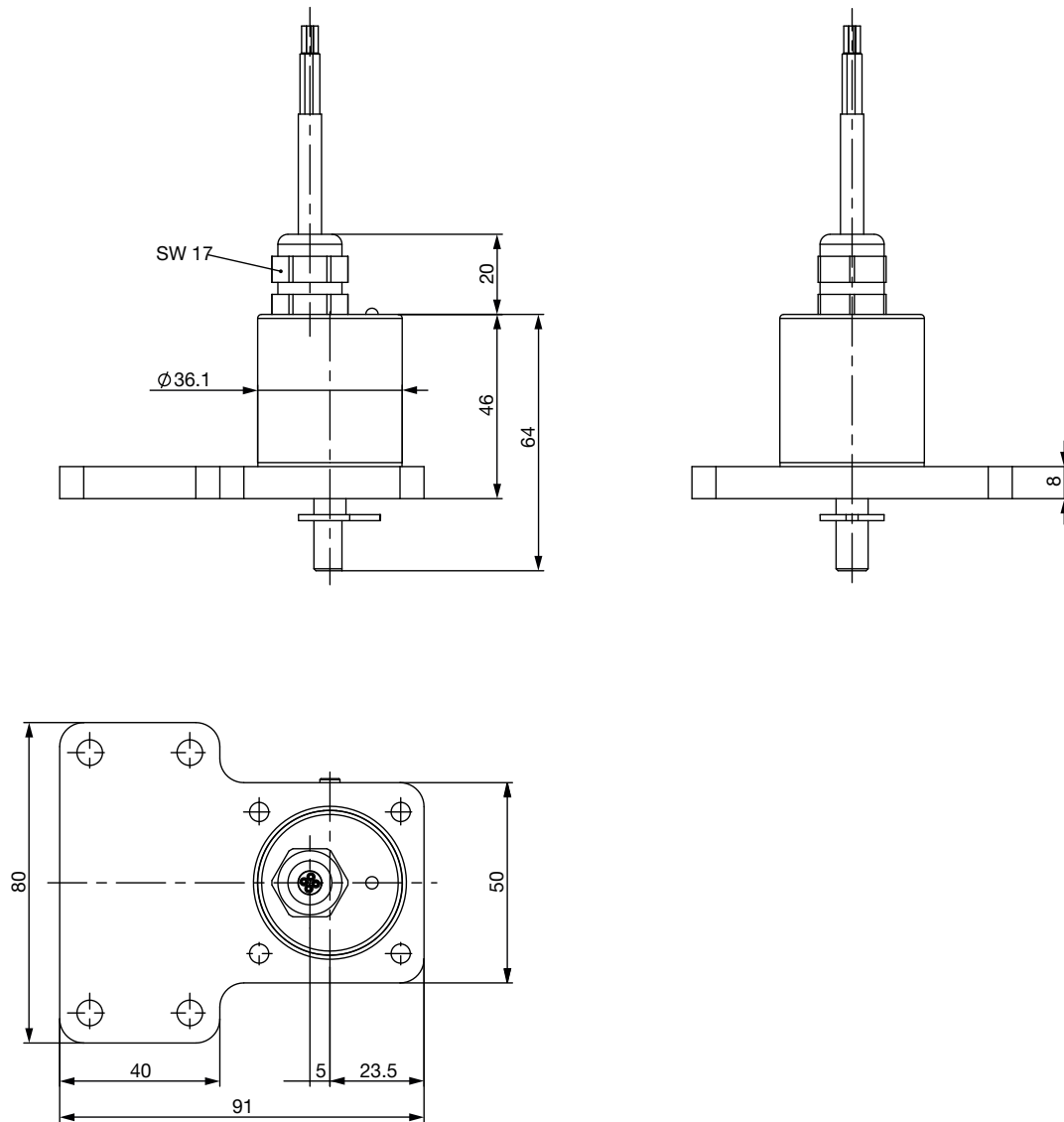
Dimensions

For mounting on Control valves ELEMENT Types 23xx

Technical drawings showing dimensions for mounting on Control valves ELEMENT Types 23xx. The drawings include a front view with a height of 119 mm and a width of 17.1 mm, a side view with a base width of 114 mm, and a top view with a total height of 99.5 mm and a diameter of 89.1 mm.

## Dimensions

Mounting on control valves according to NAMUR (IEC 60534-6-1 / VDI/VDE 3845 (IEC 60534-6-2))



## Ordering Chart (further version on request)

## Positioner SideControl Type 8792 NAMUR version

NAMUR IEC 60534-6-1 VDI/VDE 3845 (IEC 60534-6-2)

Communication	Electrical connection	Analogue feedback	2 Binary outputs	Diagnostic functions <sup>1)</sup>	cCSAus	ATEX II 3 GD / IECEx	Article no.
<b>Single and double-acting, universal air capacity</b>							
without fieldbus communication	Cable gland	no	no		yes		206610
		no	yes	yes	yes		206612
		yes	yes	yes	yes		206611
		yes	yes	yes		yes	310306
	Multipole	no	no		yes		206613
		no	yes	yes	yes		206615
		yes	yes	yes	yes		206614
						yes	206616
PROFIBUS DP-V1	Multipole	via Bus	no			yes	310308
		via Bus	yes	yes		yes	310309
		via Bus	yes	yes	yes		206617
		via Bus	yes	yes	yes	yes	239094
DeviceNet	Multipole	no	no		yes		239095
		no	yes	yes		yes	317932
EtherNet/IP	Multipole	via Bus	no	yes			317933
		via Bus	yes	yes			317938
		via Bus	no	yes		yes	317939
		via Bus	yes	yes		yes	317942
PROFINET	Multipole	via Bus	no	yes			317943
		via Bus	yes	yes			317948
		via Bus	no	yes		yes	317949
		via Bus	yes	yes		yes	317952
Modbus TCP	Multipole	via Bus	no	yes			317953
		via Bus	yes	yes			317958
		via Bus	no	yes		yes	317959
		via Bus	yes	yes		yes	317962
büS - Bürkert System Bus	Multipole	via Bus	no	yes			317963
		via Bus	yes	yes			317968
		via Bus	no	yes		yes	317969
		via Bus	yes	yes		yes	317966

## Positioner SideControl Type 8792 remote version

Communication	Electrical connection	Analogue feedback	2 Binary outputs	Diagnostic functions <sup>1)</sup>	cCSAus	ATEX II 3 GD / IECEx	Article no.	
<b>Single-acting with low air capacity for actuator series Type 23xx (Ø 70/90 mm)</b>								
without fieldbus communication	Cable gland	yes	yes	yes	yes		224870	
		no	yes	yes	yes		224871	
EtherNet/IP	Multipole	via Bus	yes	yes			317936	
PROFINET		via Bus	yes	yes			317946	
Modbus TCP		via Bus	yes	yes			317956	
büS - Bürkert System Bus		via Bus	yes	yes	yes			317966
		via Bus	yes	yes	yes			317966
<b>Single and double-acting with universal air capacity for actuator series Type 23xx (Ø 130 mm) and 27xx (Ø 175/225 mm)</b>								
without fieldbus communication	Cable gland	no	no		yes		206623	
		yes	yes	yes	yes		206624	
		no	yes	yes	yes		206625	
		yes	yes	yes	yes		yes	310310
EtherNet/IP	Multipole	via Bus	yes	yes			317935	
PROFINET		via Bus	yes	yes			317945	
Modbus TCP		via Bus	yes	yes			317955	
büS - Bürkert System Bus		via Bus	yes	yes			317965	

<sup>1)</sup> see additional software functions parametrisable diagnostic functions on page 13**Note:** cCSAus approval in preparation for device versions with EtherNet/IP, PROFINET, Modbus TCP and büS



## Ordering Chart, continued

## Remote Position Sensor for SideControl Type 8792 remote version

Assembly variations	Electrical connection	cULus	ATEX II 3 GD / IECEx	Article no.
Control valve Type 23xx	Cable gland - 10 m round cable	yes	no	212360
	Cable gland - 10 m round cable	no	yes	226860
Control valve Type 27xx	Cable gland - 10 m round cable	yes	no	211535
	Cable gland - 10 m round cable	no	yes	226859
NAMUR (rotative)	Cable gland - 2 m round cable (max. extension 10 m)	yes	no	211536

## Ordering chart for accessories

Description	Article no.
<b>Accessories for SideControl NAMUR</b>	
Assembly bridge VDI/VDE 3845 (IEC 60534-6-2), stainless steel	770294
Adapter kit VDI/VDE 3845 (IEC 60534-6-2), stainless steel	787338
Adapter kit linear actuators IEC 60534-6-1, stainless steel	787215
Position feedback with proximity switches (optional upgrade feature) <sup>1)</sup>	677218

<b>Accessories for SideControl Remote</b>	
Bracket for wall mounting, stainless steel	675715
DIN rail assembly kit, Aluminium/stainless steel	675702
Adapter kit - remote sensor control valves Type 23xx Actuator size Ø 70/90/130 mm	679917
Adapter kit - remote sensor control valves Type 27xx Actuator size Ø 175 / 225 mm	679945
Sensor Puck (replacement part)	682240

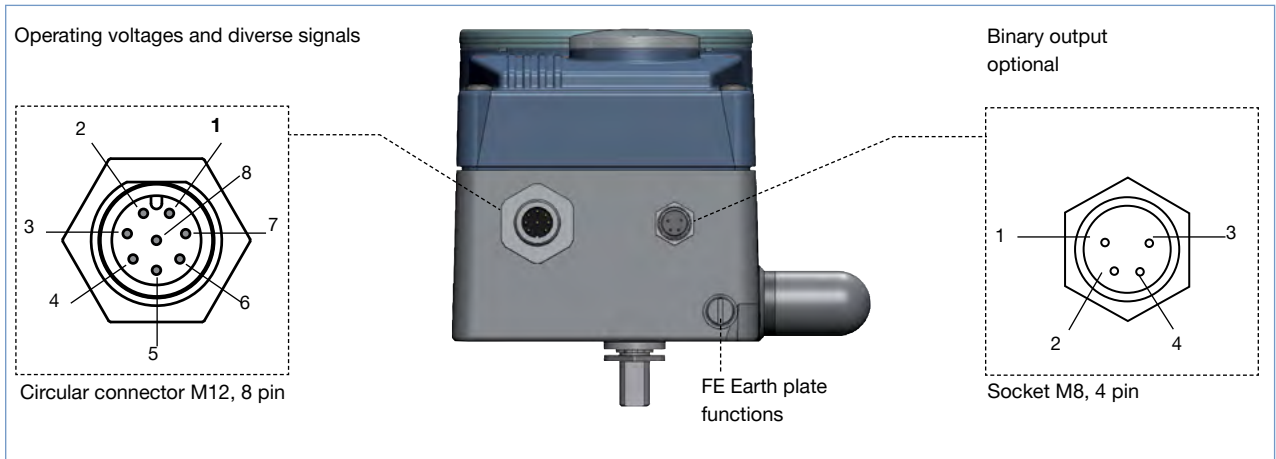
<b>Standard Accessories</b>	
M12 socket 8 pin with 5 m cable for power supply and input/output signals	919267
M8 plug 4 pin for binary outputs, with solder joints	917131
USB büS-Interface Set (büS-Stick + connection cable with M12 plug + connection cable M12 on micro USB for the büS service interface) to connect with PC-Tool Bürkert Communicator (only for device versions with EtherNet/IP, PROFINET, Modbus TCP and büS - Bürkert System Bus)	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
Sensor puck (replacement part)	682240
USB interface for serial communication (only for device versions with PROFIBUS / DeviceNet or without fieldbus communication)	227093
Software Bürkert Communicator	<a href="http://www.buerkert.de/de/type/8920">http://www.buerkert.de/de/type/8920</a>

\* Related Communication software can be downloaded from [www.buerkert.com](http://www.buerkert.com) (8792)

<sup>1)</sup> External end position feedback for upgrading SideControl NAMUR

## Connection options

### Multi-pin connection



#### Circular connector M12, 8 pin (Setpoint)

Pin	Configuration	External Circuitry / signal level
1	Setpoint + (0/4 ... 20 mA or 0 ... 5/10 V)	1  + (4 ... 20 mA or 0 ... 10 V) Complete galvanically separated
2	Setpoint GND	2  GND
3	GND	3  24 V DC ± 10 % Max. Residual ripple 10 %
4	+24 V	4  +
5	Binary input +	5  + 0 ... 5 V (log. 0) 10 ... 30 V (log. 1)
6	Binary input GND	6  GND

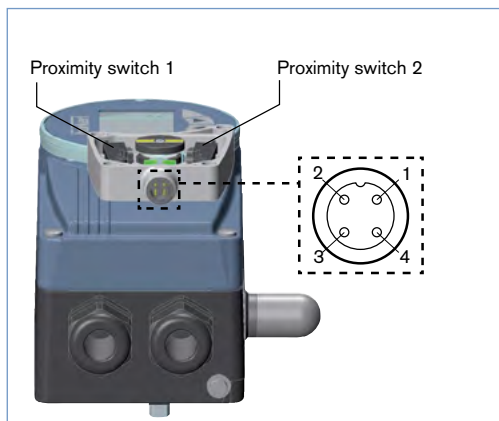
#### Optional analogue feedback

8	Analogue feedback +	8  + (0/4 ... 20 mA or 0 ... 5/10 V, ) Complete galvanically separated
7	Analogue feedback GND	7  GND

#### Socket M8, 4 pin (only with Binary Output Option)

Pin	Configuration	External 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

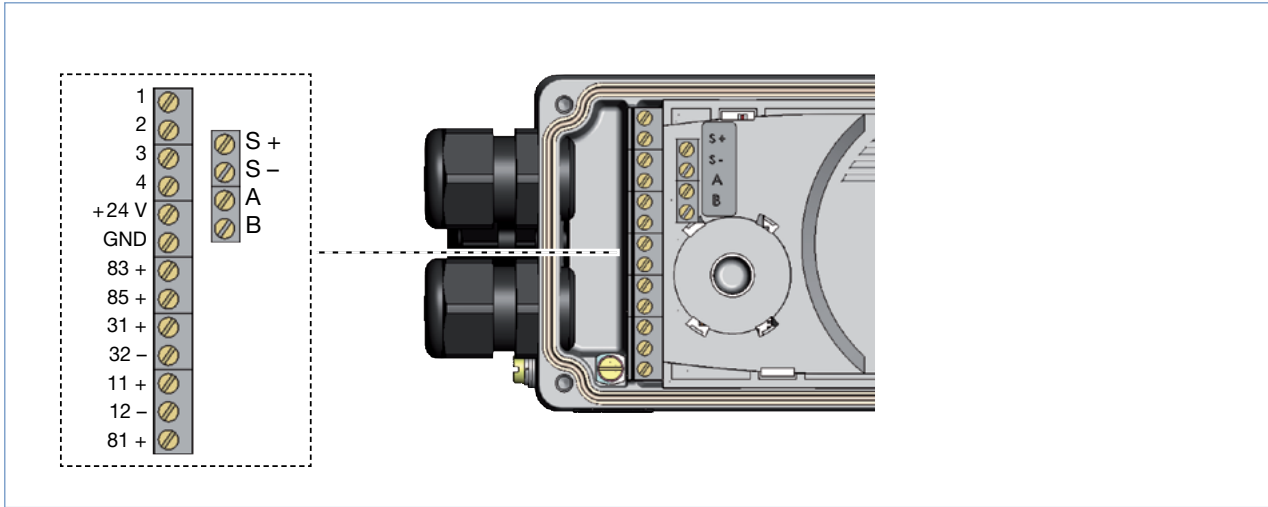
#### Electrical connection Position feedback with proximity switches (accessory for upgrading)



Pin	Config.	External circuit / signal level
1	Supply 10 ... 30 V	+10 V ... +30 V  1 10 ... 30 V
2	Switching output (NO) Proximity switch 1	+10 V ... +30 V  2 Open / 10 ... 30 V
3	GND	GND  3 GND
4	Switching output (NO) Proximity switch 2	+10 V ... +30 V  4 Open / 10 ... 30 V

Connection options, continued

Cable gland connection



Terminal	Configuration	External Circuitry / signal level
11 +	Setpoint +	11 +  + (4... 20 mA or 0... 10 V) Complete galvanically separated
12 -	Setpoint GND	12 -  GND
81 +	Binary input +	81 +  + 05 V (log. 0) 10 V (log. 1) Obtained at GND operating voltages (GND clamps)
+24 V	Operating voltages +	+24 V  24 V DC ± 10 % max. Residual ripple 10 %
GND	Operating voltages GND	GND  GND

Terminals 1, 2, 3, 4: not connected

Optional Analogue feedback / Binary Output

Terminal	Configuration	External Circuitry / signal level
83 +	Binary Output 1	83 +  24 V / 0 V, NC / NO Obtained at GND operating voltages ( GND clamps)
85 +	Binary Output 2	85 +  24 V / 0 V, NC / NO Obtained at GND operating voltages ( GND clamps)
31 +	Analogue feedback +	31 +  + (0/4... 20 mA or 0... 5/10 V) Complete galvanically separated
32 -	Analogue feedback GND	32 -  GND

Terminal 1, 2, 3, 4 : NC

Optional remote version in connection with remote positioner sensor Type 8798

Terminal	Configuration	External Circuitry / signal level
Remote Sensor	A	Serial interface, A cable
	B	Serial interface, B cable
	S +	Supply sensor +
	S -	Supply sensor -
		A  A line
		B  B line
		S +  +
		S -  -

For version without remote version: terminals A, B, +, - not connected

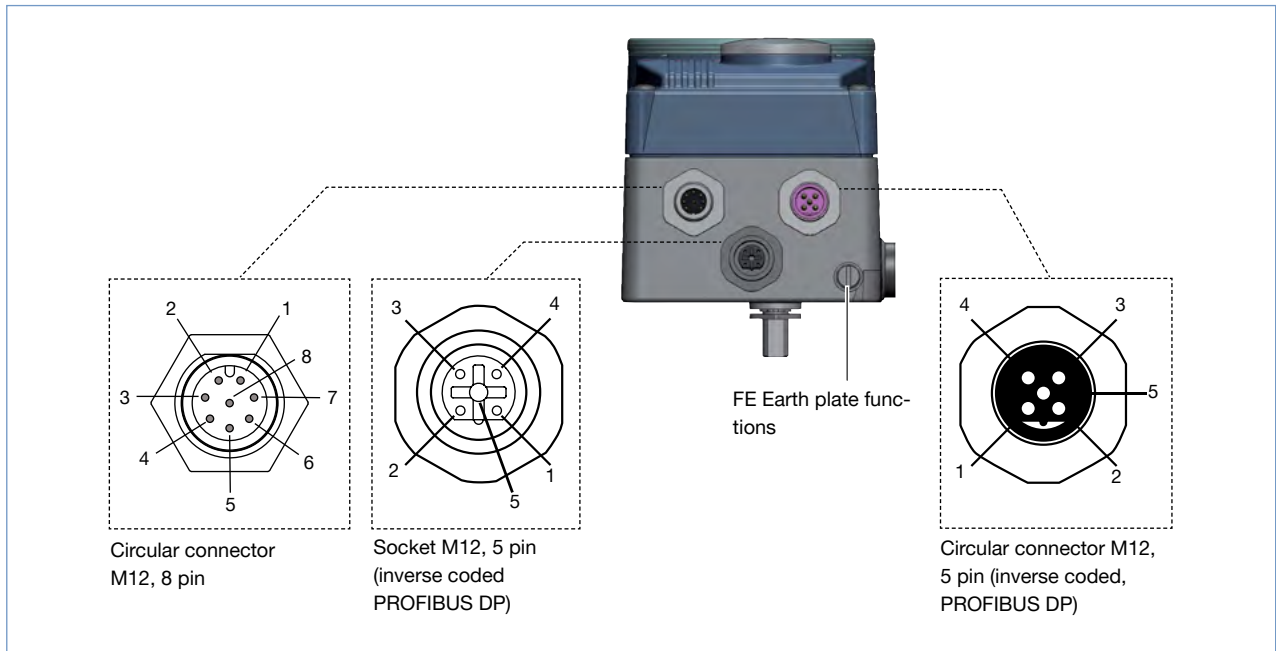
Remote sensor Type 8798

Terminal	Wire colour for cable type		Configuration	External Circuitry
	1	2		
1	white	black	Supply Sensor -	1  8791 or
2	brown		Supply Sensor +	2  8792 / 8793
3	yellow	orange	Serial Interface, B line	3  8791 or
4	green	red	Serial Interface, A line	4  8792 / 8793

Terminal 1, 2, 3, 4 : NC

## Connection options, continued

### Connection PROFIBUS DP



#### Operating voltage - circular connector M12, 8 pin

Pin	Configuration	External Circuitry / signal level
1	Not configured	
2	Not configured	
3	GND	
4	+24 V	
5	Binary input +	
6	Binary input -	
7	Binary Output 1 (oriented at Pin 3)	
8	Binary Output 2 (oriented at Pin 3)	

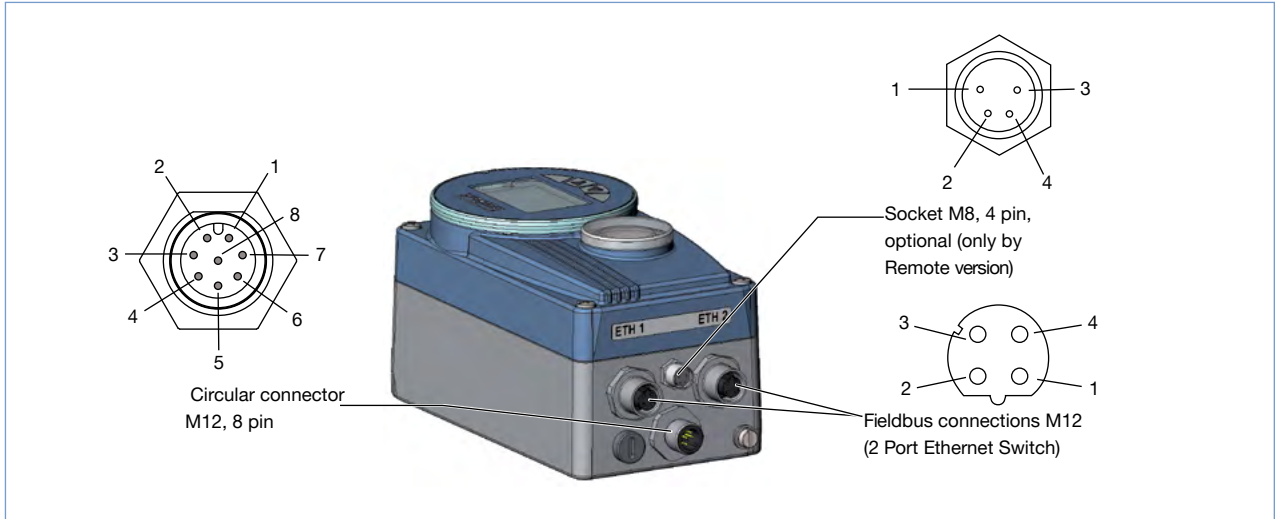
#### Fieldbus connection - socket/circular connector M12, 5 pin

Pin	Configuration	External Circuitry / signal level
1	VP+5	Load resistance supply
2	RxD/TxD-N	Receive and send information -N, A Circuitry
3	DGND	Information transfer potential (measured to 5 V)
4	RxD/TxD-P	Receive and send information -P, B Circuitry
5	Shield	Shield / protective earth

#### Fieldbus connection DeviceNet - M12, 5 pin circular connector

Pin	Signal	Colour	Configuration
1	Shielding	Not used	
2	V+	Not used	
3	V-	Not used	
4	CAN H	White	
5	CAN L	Blue	

**EtherNet/IP, PROFINET, Modbus TCP connection**



**Fieldbus connections M12 D-coded**

Connections for EtherNet/IP takes place over circular connector M12, 4 pin D-coded

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

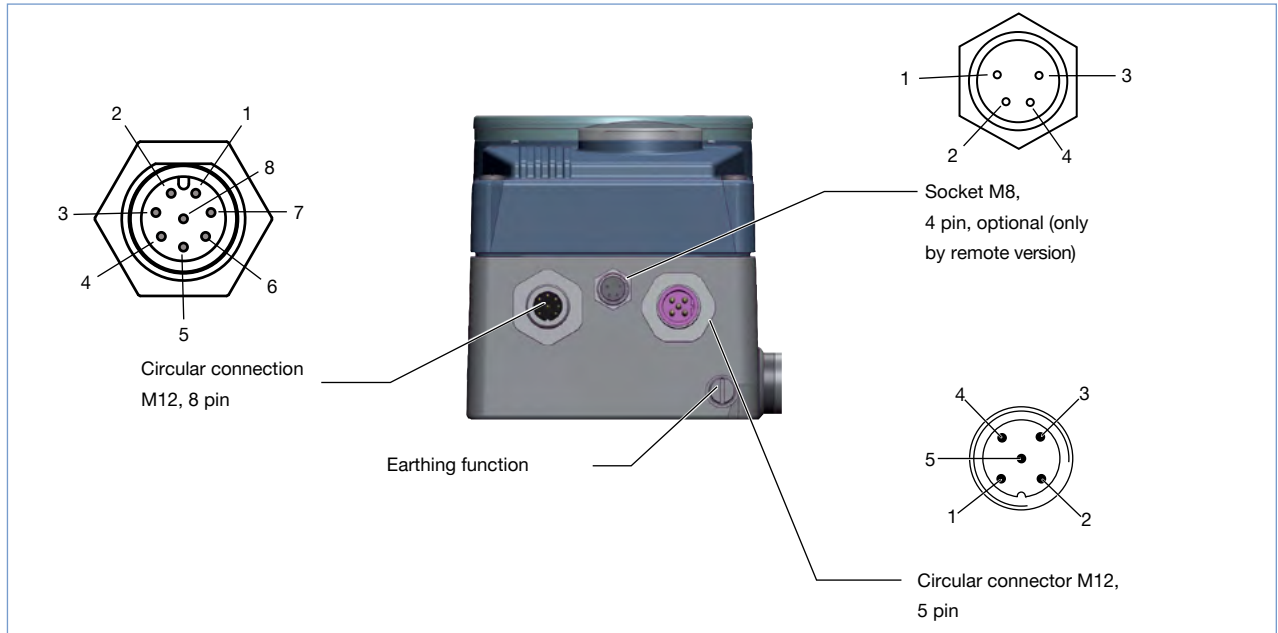
**Operating system - circular connector M12, 8 pin**

Pin	Configuration	Device side	External circuitry / signal level
1	not allocated		
2	not allocated		
<b>Operating voltage</b>			
3	GND		24 V DC ± 10 % max. residual ripple 10%
4	+ 24 V		
<b>Input signals ( e.g. SPS)</b>			
5	Binary input +		0...5 V (log.0) 10...30 V (log.1)
6	Binary input -		
<b>Output signal ( e.g. SPS) - (Only used for binary output option)</b>			
7	Binary output 1 (correlated to pin 3)		0...24 V
8	Binary output 2 (correlated to pin 3)		0...24 V

**Connection of the digital, non-contact displacement transducer, Type 8798**

Pin	Configuration	Device side	External circuitry
1	Sensor power supply +	S +	
2	Sensor power supply -	S -	
3	Serial interface, A-line	A	
4	Serial interface, B-line	B	

## Anschluss büS (Bürkert System Bus)



## Fieldbus connection- circular connection M12x1, 5 pin

Pin	Wire colour	Configuration
1	CAN-Schild / Shielding	CAN-Schild / Shielding
2	not allocated	
3	Black	Black GND / CAN_GND
4	White	White CAN_H
5	Blue	Blue CAN_L

## Operating voltage - circular connections M12, 8 pin

Pin	Configuration	Device side	External circuitry / signal level
1	not allocated		
2	not allocated		
<b>Operating voltage</b>			
3	GND		24 V DC $\pm$ 10 % max. residual ripple 10%
4	+ 24 V		
<b>Input signal ( e.g. SPS)</b>			
5	Binary input +		0...5 V (log.0) 10...30 V (log.1)
6	Binary input -		
<b>Output signal ( e.g. SPS) - (Nur belegt bei Option Binärausgang)</b>			
7	Binary output 1 (correlated to pin 3)		0...24 V
8	Binary output 2 (correlated to pin 3)		0...24 V

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

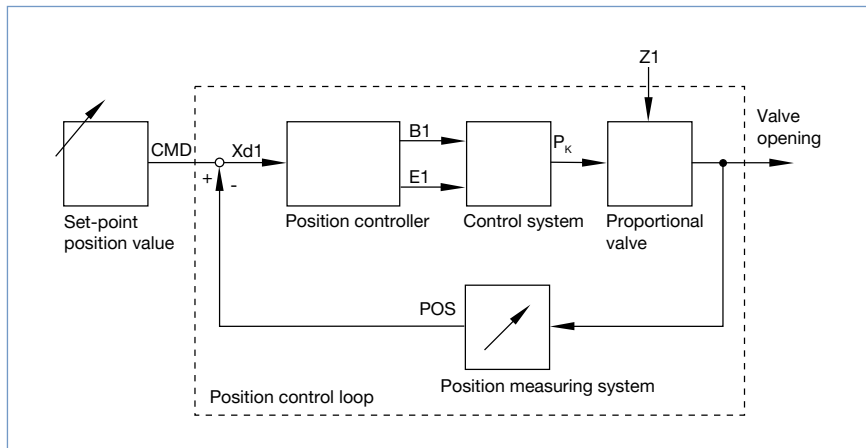
Pin	Configuration	Device side	External circuitry
1	Sensor power supply +	S +	
2	Sensor power supply -	S -	
3	Serial interface, A-line	A	
4	Serial interface, B-line	B	

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

Pin	Configuration	Device side	External circuitry
1	Potentiometer 1	1	
2	Sliding contact 2	2	
3	Potentiometer 3	3	
4	not allocated		

## Signal flow plan

### Position control loop



### Additional software options of the SideControl positioner Type 8792 (extract)

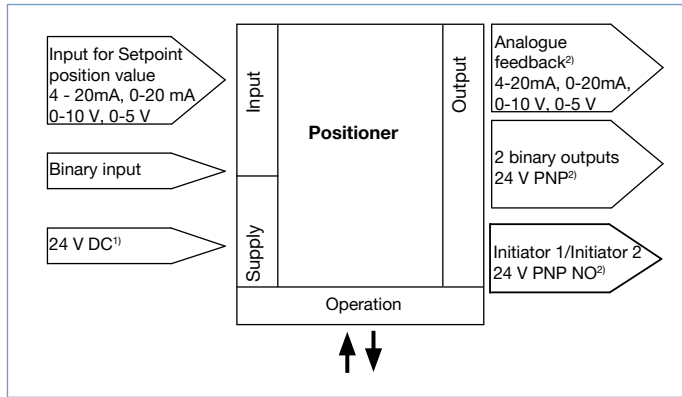
- Automatic start of the control system
- Automatic or manual characteristics curves selection
- Setting of the seal and the maximum stroke threshold respectively
- Parameterisation of the positioner
- Limitation of the stroke range
- Limitation of the manipulating speed
- Setting of the moving direction
- 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
- Parametrisable diagnostic functions\* / Binary output (option)
  - Operating-hours counter
  - Path accumulator
  - Position monitoring
  - Graphical display of the dwell time density and movement range
  - Monitoring of the mechanical end positions in the armature

\*You will find more diagnostic functions with a detailed description in the operating manual for Type 8792/93

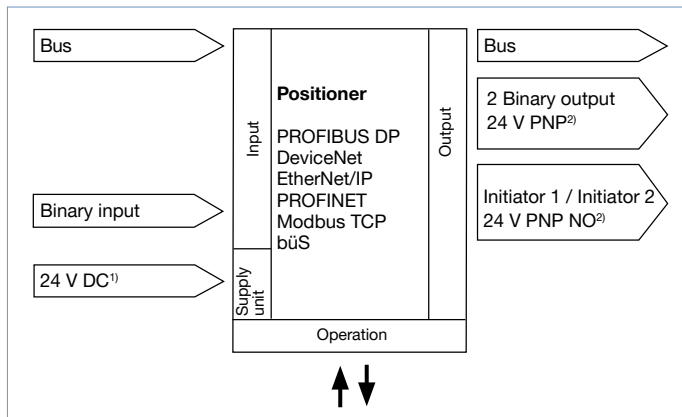


## Schematic diagram of SideControl, Type 8792

### Without Fieldbus interface



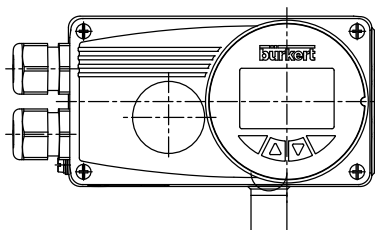
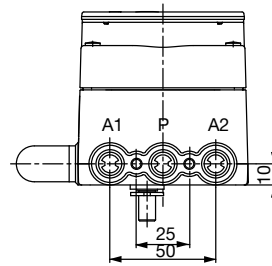
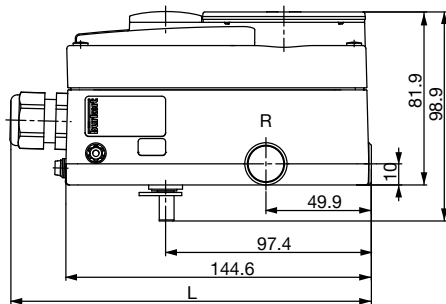
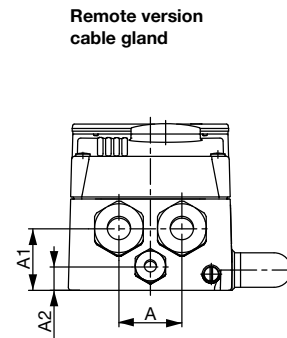
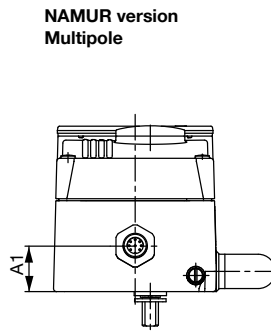
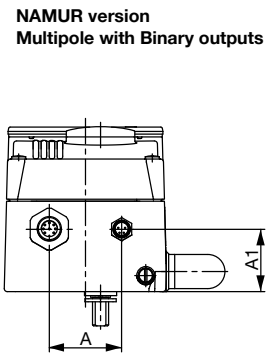
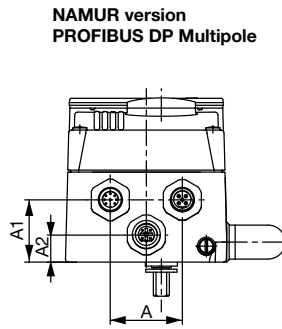
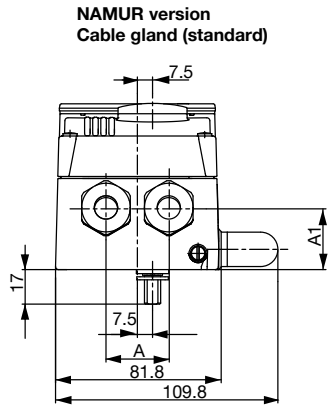
### With PROFIBUS DP, DeviceNet, EtherNet/IP, PROFINET, Modbus TCP and büS - Bürkert System Bus



<sup>1)</sup> The operating voltage is supplied with a 3-wire unit independent from the setpoint signal

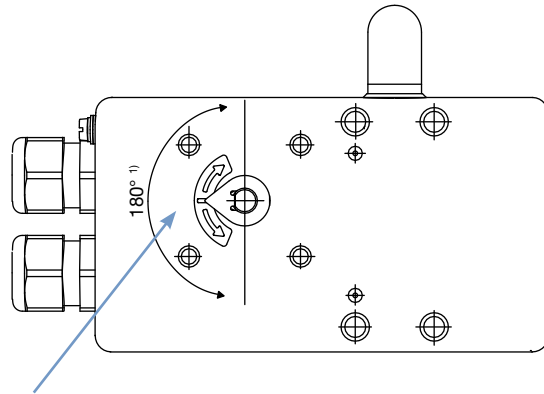
<sup>2)</sup> Alternative options

Dimensions [mm]



Description	L	A	A1	A2
Standard	171.1	31	30	-
PROFIBUS DP	157.8	36	31	13.5
Multipole Bin. OUT	157.6	36	31	-
Multipole	157.4	-	22.5	-
Remote	171.1	31	30	11.5

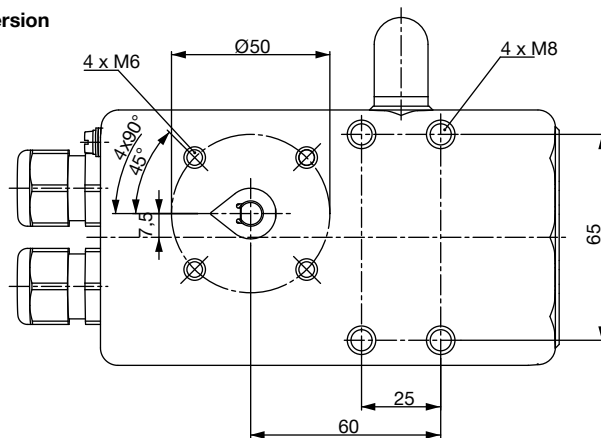
## Dimensions [mm], continued



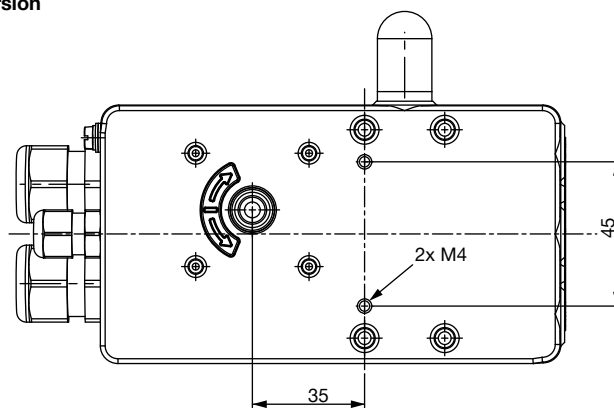
The rotation angle of the sensor must be within a range of 180° <sup>1)</sup>

With the valve open approx. 50%, the sensor indicator should be in this position.

## Standard Version

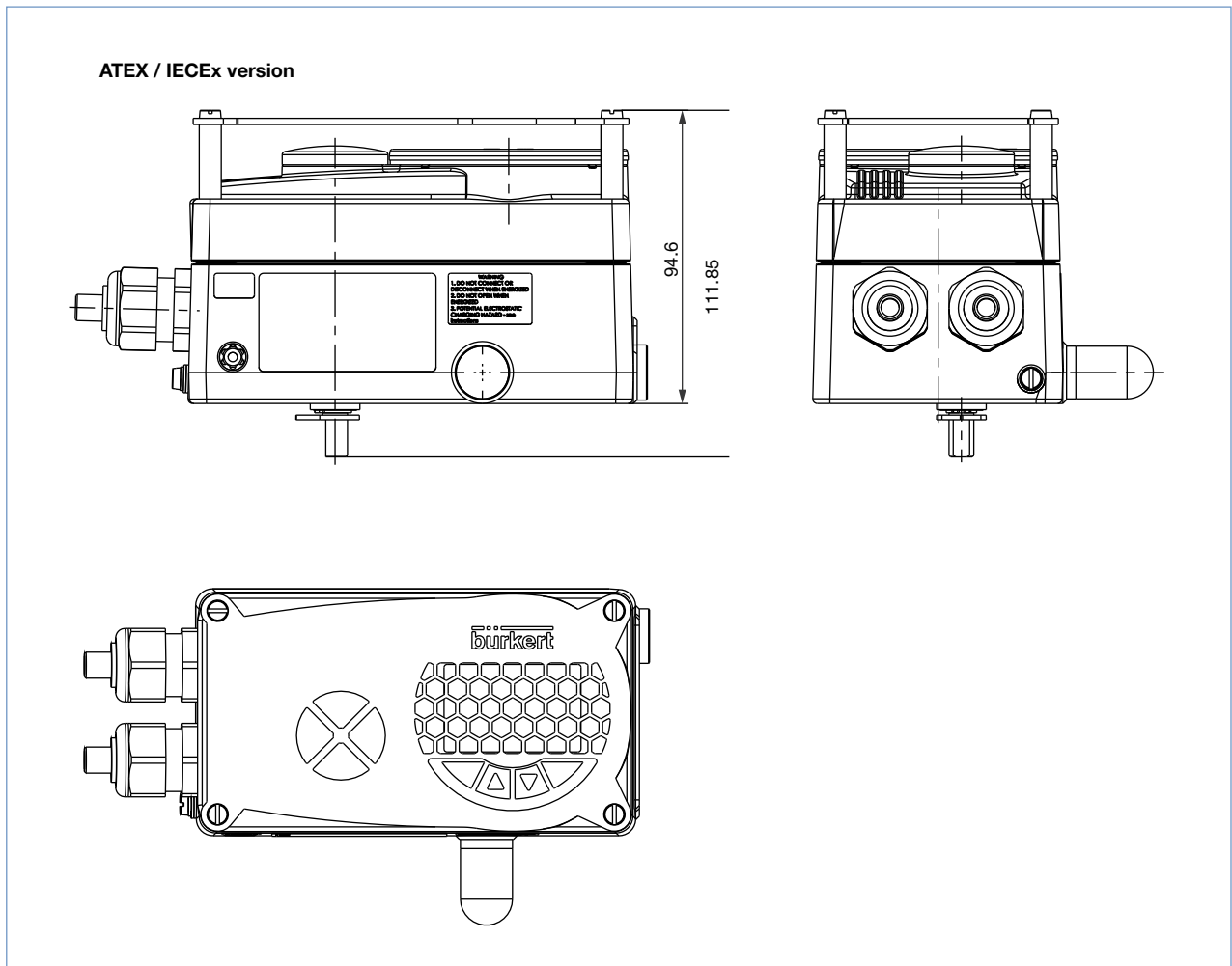


## Remote version



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

## Dimensions [mm], continued



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