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Actuators

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For further technical information please refer to the GAMMA building management systems manual or visit our Web site at:

<http://www.siemens.de/gamma>






Actuators

Binary outputs

Selection and ordering data

	Number of outputs	Rated current for resistive load per output at 230 V AC A	MW (1 MW = 18 mm)	Order No.	Price 1 item	PG	Weight 1 item kg	PS*/ P. unit Items
	The binary outputs switch two mutually independent groups of electrical consumers using two potential-free contacts (bistable relays). Bus connection through data rail N 562			5WG1 562-1AB01		030	0.105	1
	2	10	2					
	N 561 (discontinued model) The binary outputs switch four mutually independent groups of electrical consumers using four potential-free contacts (bistable relays). Bus connection through data rail			5WG1 561-1AB01		030	0.150	1
	4	10	3					
	N 567 switch actuator NEW The actuator is powered by 230 V AC. A green LED indicates that the actuator is ready for operation. The comprehensive application program contains all standard functions per channel, such as logic operation, On and/or OFF delay, parameterizable switching states for bus/system voltage recovery, as well as its own status object. In addition, it also supports integration of the actuator in up to 8 scenes of an 8-bit scene control, time-limiting the switching on of an actuator channel in night mode, the short-term on and off switching (3 x - flashes) of an actuator channel before finally switching off if using the channel as a time switch or in night mode, as well as the "continuation" of switching commands received over the bus, while the actuator was switched in direct mode. A pushbutton with a yellow LED enables the actuator to be switched between bus mode and direct mode. In direct mode, each actuator channel can be switched over a separate pushbutton using the UM function as long as 230 V AC are available (even if there is no bus voltage and bus communication has not yet started) The switching state of the channels is displayed over a red LED integrated in the respective switchover pushbutton, irrespective of the operating mode of the actuator. Connection to the KNX <i>EIB</i> can be over the contact system to either a data rail or the bus terminal, which are internally connected through actuators.			5WG1 567-1AB01		030	0.220	1
	N 567/01, quadruple The N 567/01 switch actuator has 4 relays contact outputs, connection per channel for 230 V AC, 8 A resistive load.							
	N 567/11, 8-fold The N 567/11 switch actuator has 8 relays contact outputs, connection per channel for 230 V AC, 8 A resistive load.			5WG1 567-1AB11		030	0.270	1
	8	8	4					

Binary outputs








	Number of outputs	Rated current for resistive load per output at 230 V AC A	Dimensions H x W x D mm	Order No.	Price 1 item	PG	Weight 1 item kg	PS*/ P. unit Items
Device installation								
	GE 561							
	The binary output switches three mutually independent groups of electrical consumers using three potential-free contacts (bistable relays).							
3	10	42 x 274.5 x 28	5WG1 561-4AB02 5WG1 561-4CB02	030	0.140	1		
	GE 562 (discontinued model)							
	The binary output switches one group of electrical consumers using its potential-free contact (bistable relay).							
1	10	28 x 336 x 28	5WG1 562-4AB01	030	0.145	5		
	GE 563 (discontinued model)							
	The binary output switches two mutually independent groups of electrical consumers using two potential-free contacts (bistable relays).							
2	10	28 x 336 x 28	5WG1 563-4AB01	030	0.145	1		
Installation in a flush-mounting box								
	UP 562							
	10 A switch actuator with two outputs and an integrated bus coupling unit for a flush-mounting box with Ø 60 mm.							
	Integrated UI for plugging on any operator interface, single to quadruple pushbutton.							
	Any function can be parameterized for the operator interface (for paint shield see "System and communication devices – bus coupling units").							
2	10	71 x 71 x 40	5WG1 562-2AB01	030	0.080	1		
	Without UI, without hanger							
2	10	51 x 44 x 40	5WG1 562-2AB11	030	0.055	1		

* You can order this quantity or a multiple thereof.

Actuators

Load switches

Selection and ordering data

	Number of outputs	Rated current for resistive load per output at 230 V AC	Dimensions H x W x D	MW (1 MW = 18 mm)	Order No.	Price 1 item	PG	Weight 1 item kg	PS*/ P. unit Items
Modular installation devices									
	N 510/03 The load switches switch four mutually independent groups of electrical consumers using four potential-free contacts (bistable relays). No power supply required. Manual actuation and switch position display. Bus connection through data rail and/or through bus terminal. Terminal can be used as connector.								
	4	16	–	4	5WG1 510-1AB03		030	0.240	1
	N 510/04, for high capacitive loads The load switches switch four mutually independent groups of electrical consumers using four potential-free contacts (bistable relays). These load switches are particularly well suited for switching devices with high switch-on peaks. No power supply required. Manual actuation and switch position display. Bus connection through data rail and/or through bus terminal. Terminal can be used as connector.								
	4	16	–	4	5WG1 510-1AB04		030	0.280	1
	N 512 The load switches switch eight mutually independent groups of electrical consumers using eight potential-free contacts (bistable relays). No power supply required. Manual actuation and switch position display. Bus connection through data rail and/or through bus terminal. Terminal can be used as connector.								
	8	16 20	–	8	5WG1 512-1AB01 5WG1 512-1CB01		030 030	0.516 0.516	1 1
Device installation (discontinued model)									
	GE 510 The load switches switch two mutually independent groups of electrical consumers using two potential-free contacts (bistable relays).								
	2	16	28 x 336 x 28	–	5WG1 510-4AB01 5WG1 510-4CB01		030 030	0.145 0.145	5 1
Installation in a flush-mounting box									
	UP 563 10 A switch actuator with integrated bus coupling unit for plugging on SCHUKO outlet inserts from the Siemens DELTA flush-mounting product ranges. The supplied distance frame in DELTA profil design enables the switchable SCHUKO outlet to be installed in equipment connecting sockets with a depth of 60 mm. No distance frame is needed if these equipment connecting sockets for flush mounting are used in conjunction with corresponding 24 mm leveling rings. The selected SCHUKO outlet and the corresponding frame have to be ordered separately.								
	1	10	46 x 46 x 30	Color	5WG1 563-2AB01 5WG1 563-2AB11		030 030	0.051 0.051	1 1
				pearl gray titanium white	5WG1 563-2AB21 5WG1 563-2AB71		030 030	0.051 0.051	1 1
	UP 511 16 A switch actuator with an integrated bus coupling unit for a flush-mounting box with Ø 60 mm. No UI and no hanger.								
	1	16	50 x 50 x 30	–	5WG1 511-2AB01		030	0.070	1

Selection and ordering data

Number of outputs	Rated current for resistive load per output at 230 V AC	MW	Order No.	Price	PG	Weight 1 item	PS*/P.unit
A		(1 MW = 18 mm)		1 item		kg	Items

Modular installation devices



N 521

With its potential-free contacts, the shutter/blind switch can raise or lower two independent sets of shutters/blinds as well as gradually open or close the slats.

Two channels, each for two motors, are available, i.e. up to four shutter/blind drives can be actuated. Two shutter/blind control outputs always form a quasi-parallel circuit but are interlocked by means of internal relay contacts. Depending on the application program, additional functions are also supported, such as safety functions (e.g. automatic raising of external shutters in the event of a storm).

2	6	3	5WG1 521-1AB01		030	0.150	1
			5WG1 521-1CB01		030	0.149	1



N 522/02

The N 522/02 shutter/blind switch can control four sunshade or window drives for 230 V AC and integrated limit switches independently of each other. Only one motor is allowed to be connected per output as the shutter/blind switch recognizes the triggering of a limit switch on drives with electromechanical limit switches and uses it for synchronization with the respective limit position.

The product range can be parameterized either for pure manual operation or for differentiation between automatic and manual operation, with different communication objects being usable in each case. In addition to a sunshade/screen being moved directly into one of the two limit positions it is independently possible for sunshades, screens and the slats of shutters/blinds to be moved into intermediate positions expressed as percentages (8 bit values) and for their positions to be scanned or automatically signaled by means of 8 bit objects. In conjunction with a higher-level time, brightness or sun tracking control system the shutter/blind switch can be used to provide shading with the maximum proportion of daylight. Use for daylight control purposes is possible but limited to the positioning accuracy and increment size of the slat adjustment, which are dependent on the drive, gearing and shutter/blind.

The power supply of the actuator electronics with 230 V AC and two pushbuttons per channel make it possible to move the sun protection locally at the device even if the bus has not yet been commissioned or if communication has failed.

The easy-to-install shutter/blind switch has 4 terminals per output in order to connect all 4 conductors (Up, Down, N, PE) of a drive circuit.

4	8	6	5WG1 522-1AB02		030	0.450	1
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N 523/02

The N 523/02 shutter/blind switch can control four sunshade devices (shutters, blinds and canopies) with 230 V AC motors independently of each other. The sunshade drives must have limit switches. Direct parallel operation of several drives at one output (without intermediate switching of isolating relays) is not allowed. The maximum permissible current per output is 6 A, at p. f. = 1.

A pushbutton with an LED is provided to switch between automatic and manual operation. In manual operation the sunshade can be adjusted from the actuator by means of two pushbuttons per channel, given the availability of the 230 V AC power supply and the bus voltage (even if bus communication has still to be started).

The N 523/02 shutter/blind switch is supplied with 230 V AC. The bus can be connected through a bus terminal as well as through the integrated contact system by snapping the actuator onto a DIN rail with integrated data rail. The bus terminal and the contact system are connected within the actuator.

The actuator channels are operated by means of the standard commands Move Up/Down and Stop/Step. The user can program whether an output is to operate a shutter or blind drive and whether other objects are to be available per channel for saving and recalling two intermediate sunshade settings, for up and down protection and for signaling shutter/blind and slat positions as percentage values. Also he can program the blind slats to rock up or the shutter to retract slightly when the lower limit position is reached without interruption after starting from the upper limit position.

4	6	4	5WG1 523-1AB02		030	0.369	1
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Actuators

Shutter/blind switches

Selection and ordering data

Number of outputs	Rated current for resistive load per output at 230 V AC	Dimensions H × W × D	MW	Order No.	Price	PG	Weight 1 item	PS*/P. unit
	A		(1 MW = 18 mm)		1 item		kg	Items

Modular installation devices (Continued)



N 523/03

The N 523/03 shutter/blind switch can control four sunshade devices (shutters and canopies but no blinds) with 230 V AC motors independently of each other. The sunshade drives must have limit switches. Direct parallel operation of several drives at one output (without intermediate switching of isolating relays) is not allowed. The maximum permissible current per output is 6 A, at p. f. = 1.

A pushbutton with an LED is provided to switch between automatic and manual operation. In manual operation the sunshade can be adjusted from the actuator by means of two pushbuttons per channel, given the availability of the 230 V AC power supply and the bus voltage (even if bus communication has still to be started).

The N 523/03 shutter/blind switch is supplied with 230 V AC. The bus can be connected through a bus terminal as well as through the integrated contact system by snapping the actuator onto a mounting rail with integrated data rail. The bus terminal and the contact system are connected within the actuator.

The actuator channels are operated by means of the standard commands Move Up/Down and Stop. The user can program whether other objects are to be available per channel for saving and recalling two intermediate sunshade settings, for up and down protection and for signaling the sunshade position as a percentage value. Also he can program a shutter to retract slightly when it reaches the lower limit position without interruption after starting from the upper limit position.

4	6	–	4	5WG1 523-1AB03	030	0,369	1
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N 524

The N 524 shutter/blind switch can operate four DC drives for shutters, canopies, blinds, windows, ventilation flaps or valves independently of each other. Parallel operation of several drives with electromechanical limit switches at one output is permissible. The maximum current of 1 A per output is allowed to be exceeded briefly upon startup. An external DC voltage source for 6 V, 12 V or 24 V has to be connected to the N 524 in order to supply power to the DC drives in question.

The product range can be parameterized either for pure manual operation or for differentiation between automatic and manual operation, with different communication objects being usable in each case. In addition to a sunshade/screen being moved directly into one of the two limit positions it is independently possible for sunshades, screens and the slats of shutters/blinds to be moved into intermediate positions expressed as percentages (8 bit values) and for their positions to be scanned or automatically signaled by means of 8 bit objects. In conjunction with a higher-level time, brightness or sun tracking control system the shutter/blind switch can be used to provide shading with the maximum proportion of daylight. Use for daylight control purposes is possible but limited to the positioning accuracy and increment size of the slat adjustment, which are dependent on the direct voltage supply, drive, gearing and shutter/blind.

The power supply of the actuator electronics with 230 V AC and two pushbuttons per channel make it possible to move the sun protection locally at the device even if the bus has not yet been commissioned or if communication has failed.

4	1	–	6	5WG1 524-1AB01	030	0,422	1
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Device installation



GE 521

Suitable for installation in enclosures or for separate mounting. With its potential-free contacts the device can run shutter/blind drives up or down and open or close the slats in steps. One channel is available for two motors, i.e. up to two shutter/blind drives can be actuated. The shutter/blind control outputs always form a quasi-parallel circuit but are interlocked by means of internal relay contacts. Additional functions are possible depending on the application program (see the N 521 shutter/blind switch).

1	6	42 × 274.5 × 28	–	5WG1 521-4AB02	030	0,140	1
				5WG1 521-4CB02	030	0,140	1

Shutter/blind switches

Number of outputs	Rated current for resistive load per output at 230 V AC	Dimensions H x W x D	Order No.	Price	PG	Weight 1 item	PS*/P. unit
	A	mm		1 item		kg	Items

Installation in a flush-mounting box

UP 520

Shutter/blind switch with integrated bus coupling unit for a flush-mounting box with Ø 60 mm.

Integrated UI for plugging on any operator interface, single to quadruple pushbutton. Any function can be parameterized for the operator interface (for paint shield see "System and communication devices – bus coupling units").



1	6	71 x 71 x 40	5WG1 520-2AB01		030	0.080	1
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Without UI, without hanger



1	6	51 x 44 x 40	5WG1 520-2AB11		030	0.055	1
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Dimmers

Selection and ordering data

Number of outputs	Rated current load voltage 50 Hz, 230 V AC	Dimensions H x W x D	MW	Order No.	Price	PG	Weight 1 item	PS*/P. unit
			(1 MW = 18 mm)		1 item		kg	Items

Modular installation devices

Universal dimmers

For dimming incandescent lamps and l.v. halogen lamps (with electronic and conventional transformers). Works automatically in accordance with the generalized phase control principle. Short-circuit protection by electronic fuse.

Bus connection through data rail and/or through bus terminal. Terminal can be used as connector.



N 527

1	20 W to 500 W	–	4	5WG1 527-1AB02		030	0,216	1
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N 528

1	20 W to 250 W	–	4	5WG1 528-1AB02		030	0,216	1
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Installation in a flush-mounting box

UP 525

Dimmer in trailing-edge phase technology with integrated bus coupling unit for a flush-mounting box with Ø 60 mm.

Integrated UI for plugging on any operator interface, single to quadruple pushbutton. Any function can be parameterized for the operator interface (for paint shield see "System and communication devices – bus coupling units").



1	250 VA	71 x 71 x 40	–	5WG1 525-2AB01		030	0.055	1
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Without UI, without hanger



1	250 VA	51 x 44 x 40	–	5WG1 525-2AB11		030	0.055	1
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Actuators

Switching/dimming actuators

Selection and ordering data

Number of outputs	Rated current for resistive load per output at 230 V AC	Dimensions H x W x D	MW	Order No.	Price	PG	Weight 1 item	PS*/P. unit
A			(1 MW = 18 mm)		1 item		kg	Items

Modular installation devices



N 525/02

This device controls fluorescent lamps through the 10 V DC control terminal of an electronic primary switching device (ECG dynamic). The control supply voltage must be supplied by the ECG dynamic. In addition, there is a switching contact for directly switching the fluorescent lamps on and off. Manual operation (On/Off) and contact position indicator (On/Off).

Rated values:
switching capacity for fluorescent lamp load with OSRAM ECG dynamic for 58 W: 30 lamps.
Control power for fluorescent lamp load with OSRAM ECG dynamic: max. 50 lamps.

1	16	-	4	5WG1 525-1AB02		030	0.170	1
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N 526/02

This device switches and dims fluorescent lamps with electronic primary switching devices (1 V to 10 V control input) through 3 independent control and switching channels.

The device has 3 inputs for directly connecting brightness sensors, which support independent constant light control for each channel. The brightness sensors are connected using a 3-core cable of up to 100 m in length.

An integrated power supply unit with 230 V AC as well as one pushbutton and one LED per channel support local on/off switching. It also enables switching status indication on the device, even for a bus that has not yet been put into operation or after a communication failure.

Rated values per channel:
switching capacity for fluorescent lamp load with OSRAM ECG dynamic for 58 W: 20 lamps
Control power for fluorescent lamp load with OSRAM ECG dynamic: max. 50 lamps.

3	6	-	6	5WG1 526-1AB02		030	0.458	1
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Indoor brightness sensor for the N 526/02 switching/dimming actuator

In combination with the N 526/02 switching/dimming actuator, the sensor measures the illuminance in the range of 0 lux to 2000 lux. It is directly connected to the N 526/02 actuator using a 3-core cable of up to 100 m in length. The sensor electronics is fed from the N 526/02 actuator using a core of this cable.

The brightness sensor can be mounted in a light or a flush-mounting box fitted in the ceiling or on the upper side of a false ceiling. The only part visible is the 40 mm long Plexiglas pin with a diameter of 6 mm, which directs the light on to the sensor element.

UP 255	-	30 x 52 x 33	-	5WG1 255-4AB01		030	0.092	1
AP 255	-	30 x 72 x 33	-	5WG1 255-4AB02		030	0.102	1



Installation in a flush-mounting box



Surface mounting



N 526 E

The N 526 E switching/dimming actuator switches and dims eight independent groups (channels) of fluorescent lamps with dimmable electronic control gear. A 1-10 V control output and a switch contact output is assigned to each channel. The switch contact output is equipped with a mechanical switch position indication that can also be used for direct manual operation of the switch outputs when the bus has not yet been put into operation or after a bus communication failure. Besides the command objects Switch On/Off, Dim Brighter/Darker and dimming value, a 1-bit and an 8-bit status object is available for each channel. In addition, it is possible to activate the function "night operation with limited ON duration" for each channel.






The N 526E is supplied through the bus, i.e. no additional power supply unit is required. The bus can be connected both through a bus terminal and through the integrated contact system by snapping the device onto a mounting rail with integrated data rail. The bus terminal and the contact system are connected within the actuator. For configuration, it should be taken into account that the device represents the double bus load and withdraws a current of max. 30 mA from the bus.

The number of ballasts that can be connected in parallel per channel is limited both by the control and the switching capacity of a channel:

Switching capacity: 230 V AC, 16 A, for p. f. = 1
Control power for OSRAM dynamical ECG dimming: max. 60 units

8	16	-	8	5WG1 526-1EB01		030	0.517	1
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Switching/dimming actuators

Number of outputs	Rated current for resistive load per output at 230 V AC	Dimensions H x W x D	MW (1 MW = 18 mm)	Order No.	Price 1 item	PG	Weight 1 item kg	PS*/ P. unit Items
Modular installation devices (Continued)								
	N 525 E DALI ¹⁾ 	<p>The N 525 E switching/dimming actuator connects the KNX <i>EIB</i> with digital primary switching devices that have a DALI interface. There are 8 channels, of which each one has the capacity of a switching/dimming actuator. The DALI operating devices of each individual channel are directly wired so that no further additional commissioning procedure is necessary for the primary switching devices. The status (brightness and error messages of lamps and ballast) of the DALI primary switching devices can be transmitted on the GAMMA <i>instabus</i>.</p> <p>The N 525 E switching/dimming actuator can switch and dim up to 8 ECGs per channel using KNX <i>EIB</i>.</p>						
8	–	–	4	5WG1 525-1EB01		030	0.300	1
Device installation								
	GE 525	<p>Suitable for installation in lights for fluorescent lamps, but can also be mounted separately.</p> <p>This device controls fluorescent lamps through the 10 V DC control terminal of an electronic primary switching device (ECG dynamic). The control supply voltage must be supplied by the ECG dynamic. In addition, there is a switching contact for directly switching the fluorescent lamps on and off.</p> <p>Rated values: Switching capacity for fluorescent lamp load with OSRAM ECG dynamic for 58 W: 10 lamps, 36 W: 15 lamps,</p> <p>Control capacity for fluorescent lamp load with OSRAM ECG dynamic: max. 50 lamps.</p>						
1	6	42 x 274.5 x 28	–	5WG1 525-4AB02  5WG1 525-4CB02		030 030	0.140 0.140	1 1
	GE 526	<p>Suitable for installation in lights for fluorescent lamps, but can also be mounted separately.</p> <p>This device controls fluorescent lamps through the 10 V DC control terminal of an electronic primary switching device (ECG dynamic). The control supply voltage must be supplied by the ECG dynamic. In addition, there is a switching contact for directly switching the fluorescent lamps on and off.</p> <p>Rated values: Switching capacity for fluorescent lamp load with OSRAM ECG dynamic for 58 W: 10 lamps, 36 W: 15 lamps,</p> <p>Control capacity for fluorescent lamp load with OSRAM ECG dynamic: max. 50 lamps.</p>						
1	6	28 x 336 x 28	–	5WG1 526-4AB01		030	0.140	1

1) Available in the 1st quarter 2005.

Actuators

Heating valve actuators

Selection and ordering data

Dimensions H x W x D mm	Order No.	Price 1 item	PG	Weight 1 item kg	PS*/ P. unit Items
Surface mounting					
AP 560, electromotive					
<p>Valve actuators (proportional drive) are fitted for connection to the <i>instabus</i> KNX <i>EIB</i>. Connection is direct, which means that a separate bus coupling unit is not required. No external auxiliary power is required as the actuator is powered by the <i>instabus</i> KNX <i>EIB</i>. Activation of the programming function for the physical address is contact-free using a programming magnet.</p> <p>The maintenance-free drive operates with an extremely low noise level and has a unique fully automatic valve lift detection system which ensures automatic dynamic adjustment of the actuator travel to the valve being used. This adjustment is executed after system startup and after a preset number of cycles. Bus connection is through a permanently installed cable. Actuator travel 4.5 mm. The actuator commands are issued by room temperature controllers.</p> <p>Suitable for all Heimeier valve bases. Suitable adapters for other makes can be obtained from Heimeier.</p>					
60 x 46 x 47	Connecting cable 1 m	5WG1 560-7AH01	030	0.215	1
	Connecting cable 5 m	5WG1 560-7AH02	030	0.410	1
	Programming magnet for the Heimeier AP 560 valve actuator	5WG1 590-8AH01	030	0.011	1
AP 560, electrothermal					
<p>Electrothermal actuator drive (50 Hz, 230 V AC) for heating valves. The valve actuator is switched by means of an actuator (e.g. binary outputs) through the bus.</p> <p>It is mounted directly to the MNG valves, with an intermediate ring for the Heimeier. Adapters for Danfoss RA 2000 and Oventrop must be ordered separately.</p> <p>Control stroke: 2.56 mm</p>					
		5WG1 560-7AR01	030	0.226	1
	Adapter set for Danfos RA 2000 for Oeventrop	5WG1 590-7AR01 5WG1 590-7AR02	030 030	0.144 0.023	1 1
AP 562					
<p>Electromotive, proportional (continuous) valve actuator with LED position indicator and integrated bus coupling unit for direct connection to the <i>instabus</i> KNX <i>EIB</i>. The bus connection is realized using a cable that is permanently connected to the enclosure and that can be used to additionally connect two signaling contacts (e.g. window contacts) as binary inputs. No additional external auxiliary power is required beside the bus voltage.</p> <p>The maintenance-free drive operates with an extremely low noise level and has an automatic valve lift detection system which ensures automatic dynamic adjustment of the actuator travel to the valve being used.</p> <p>Actuator travel is 7.5 mm.</p> <p>The enclosed valve adapter rings fit the following models: Danfoss RA, Heimeier, MNG, Schlösser version 3/93 and higher, Honeywell, Braukmann, Dumser (distributors), Reich (distributors), Landis + Gyr, Oventrop, Herb, Onda.</p>					
		5WG1 562-7EY01	030	0,273	1