Sontay®
Four Elms Road · Edenbridge
Kent · TN8 6AB · UK

VA-15

15Nm On/Off, R/L & Modulating Damper Actuators

Issue Number: 7.0
Date of Issue: 08/12/2016

Features & Benefits

- Maintenance-free
- Position indication
- Reversible rotation
- Mechanically set rotation limits
- Manual override

Technical Overview

The VA-15 range of actuators require either a 24Vac/dc or 230Vac supply depending on version ordered. They are available to accept either an on/off/floating (raise/lower) or modulating control signal input. They also have auxiliary switch option.

The direction of rotation can be reversed by a simple selector switch. The actuator is overload-proof, and requires no limit switches and automatically stops when the end stop is reached.

Product Codes

VA-15A-24
24Vac/dc 15Nm on/off or Floating actuator

VA-15A-24S
24Vac/dc 15Nm on/off or Floating actuator with auxiliary switch

VA-15A-230
230Vac 15Nm on/off or Floating actuator

VA-15A-230S
230Vac 15Nm on/off or Floating actuator with auxiliary switch

VA-15M-24
24Vac/dc 15Nm Modulating actuator

VA-15M-24S
24Vac/dc 15Nm Modulating actuator with auxiliary switch

WEEE Directive:
At the end of the products useful life please dispose as per the local regulations.
Do not dispose of with normal household waste.
Do not burn.

Specification

Power supply:		
	VA-15x-24	19-29Vac/dc (24V nominal)
	VA-15x-230	85-265Vac (230V nominal)
Max. power consumption:		
	VA-15x-24	
	Running	2W
	Stopped	1W
	VA-15x-230	
	Running	4.5W
	Stopped	1W
Connection		Via 1m flying lead (halogen free)
Angle of rotation		0° - 95°
Running time		<150s / 90°
Damper coupling:		
	Square	8-12mm
	Round	8-16mm
Damper size		Up to approx. 3m²
Protection		IP54 (cable downwards)
Aux. switch rating		SPDT 5(2.5)A @250Vac
Service life		>60000 cycles (0°-95°-0°)
Ambient:		
	Temperature	-20 to +50°C
	RH	5 to 95% RH
Protection class		
	VA-15x-24	III
	VA-15x-230	II
Conformity		CE
Country of origin		Germany

CE

24Vac/dc versions
The products referred to in this data sheet meet the requirements of EU Directive 2014/30/EU

230Vac versions
The products referred to in this data sheet meet the requirements of EU 2014/30/EU and 2014/35/EU

Installation

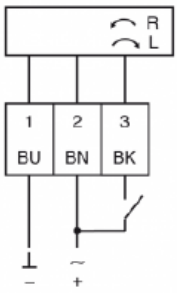
1. Ensure that all power is disconnected before carrying out any work on the damper actuator.
2. Attach the actuator to the damper spindle, finger tighten the nuts on the V-clamp.
3. Fix the anti-rotation device to the back of the actuator. This is supplied connected to the back of the housing, to release simply buckle.
4. Move the damper to the closed position. Using the manual override push button, turn the clamp until the actuator is in the correct position and tighten the V-clamp.
5. If the damper has no fixed stops of its own, the angle of rotation / working range can be adjusted mechanically by re-positioning the adjustable stops.
6. Terminate the cores of the flying lead as required and ensure that the voltage is within the specified tolerances.

Operating Modes & Connections

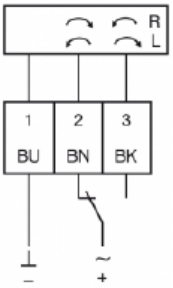
2-Point
Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3-point
Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0

2-Point

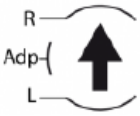


3-Point



Rotary direction switch

R= clockwise
Adp= adaption
L= counter clockwise

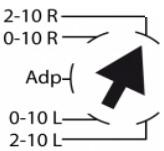


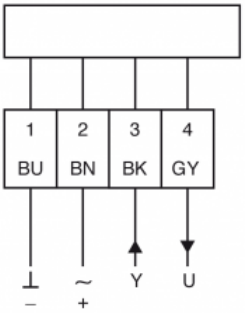
Modulating
Through connecting the power supply to BU+BN (1+2) and a reference signal Y to BK (3) of 0(2)…10Vdc, moves the actuator to its specified position. The actual damper position 0…100% is a feedback signal U for example to share the signal with other actuators.

Mode-switch

Mode-switch with five positions at the housing

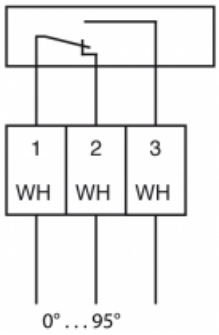
- Rotary direction right 2-10V
- Rotary direction right 0-10V
- Adp = Adaption
- Rotary direction left 2-10V
- Rotary direction left 0-10V



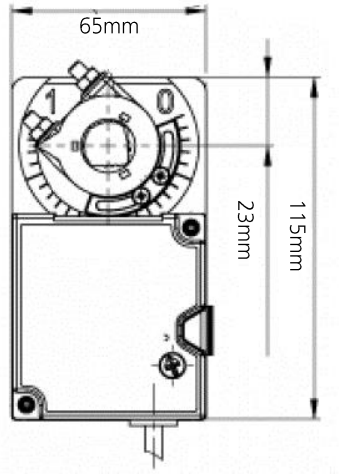


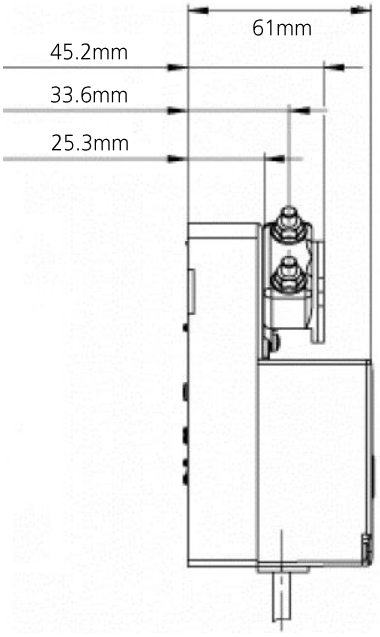
Operating Modes & Connections (continued)

Adjustment of auxiliary switches



Dimensions





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VA-30

30Nm On/Off, R/L & Modulating Damper Actuators

Issue Number: 7.0
Date of Issue: 08/12/2016

Features & Benefits

- Maintenance-free
- Position indication
- Reversible rotation
- Mechanically set rotation limits
- Manual override

Technical Overview

The VA-30 range of actuators require either a 24Vac/dc or 230Vac supply depending on version ordered. They are available to accept either an on/off/floating (raise/lower) or modulating control signal input. They also have auxiliary switch option.

The direction of rotation can be reversed by a simple selector switch. The actuator is overload-proof, and requires no limit switches and automatically stops when the end stop is reached.

Product Codes

VA-30A-24
24Vac/dc 30Nm on/off or Floating actuator

VA-30A-24S
24Vac/dc 30Nm on/off or Floating actuator with auxiliary switches

VA-30A-230S
230Vac 30Nm on/off or Floating actuator with auxiliary switches

VA-30M-24S
24Vac/dc 30Nm Modulating actuator with auxiliary switches

WEEE Directive:
At the end of the products useful life please dispose as per the local regulations.
Do not dispose of with normal household waste.
Do not burn.

Specification

Power supply:	
VA-30x-24	19-29Vac/dc (24V nominal)
VA-30A-230	85-265Vac (230V nominal)
Max. power consumption:	
Running	3W
Stopped	1.5W
Connection	Via 1m flying lead (halogen free)
Angle of rotation	0° - 95°
Running time	<150s / 90°
Damper coupling:	
Square	9-18mm
Round	9-26mm
Damper size	Up to approx. 6m²
Protection	IP54
Aux. switch rating	SPDT 5(2.5)A @250Vac
Service life	>60000 cycles (0°-95°-0°)
Ambient:	
Temperature	-30 to +50°C
RH	5 to 95% RH
Protection class	
VA-30x-24	III
VA-30x-230	II
Conformity	CE
Country of origin	Germany

CE

24Vac/dc versions
The products referred to in this data sheet meet the requirements of EU Directive 2014/30/EU

230Vac versions
The products referred to in this data sheet meet the requirements of EU 2014/30/EU and 2014/35/EU

Installation

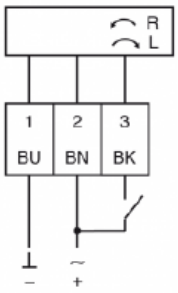
1. Ensure that all power is disconnected before carrying out any work on the damper actuator.
2. Attach the actuator to the damper spindle, finger tighten the nuts on the V-clamp.
3. Fix the anti-rotation device to the back of the actuator. This is supplied connected to the back of the housing, to release simply buckle.
4. Move the damper to the closed position. Using the manual override push button, turn the clamp until the actuator is in the correct position and tighten the V-clamp.
5. If the damper has no fixed stops of its own, the angle of rotation / working range can be adjusted mechanically by re-positioning the adjustable stops.
6. Terminate the cores of the flying lead as required and ensure that the voltage is within the specified tolerances.

Operating Modes & Connections

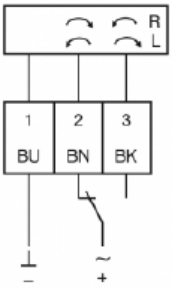
2-Point
Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. Is also BK (1+2+3) connected to the power supply the actuator is moving to position 0.

3-point
Through connecting the power supply to BU+BN (1+2) and the direction of rotation switch on position "R" moves the actuator to position 1. If the power supply is interrupted the actuator maintains its current position. Is also BU+BK (1+3) connected to the power supply the actuator is moving in direction 0

2-Point



3-Point



Rotary direction switch

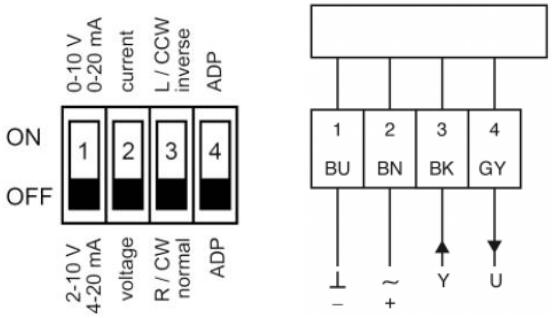
R/CW= clockwise
L/CCW= counter clockwise

Modulating
Through connecting the power supply to BU+BN (1+2) and a reference signal Y to BK (3) of 0(2)…10Vdc, moves the actuator to its specified position. The actual damper position 0…100% is a feedback signal U for example to share the signal with other actuators.

Mode-switch

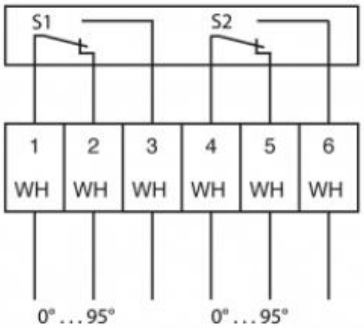
Measure on angular range

- Actuator power-off
- Setting the mechanical end stops
- Connecting the actuator to the power supply
- -ut Dip 4 to "ON"
- Actuator is measuring on angular range
- "Y" refers to the measured angular range

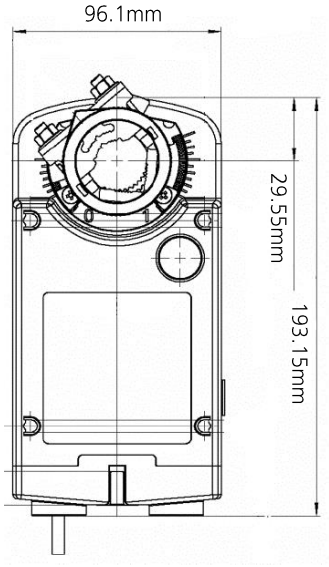


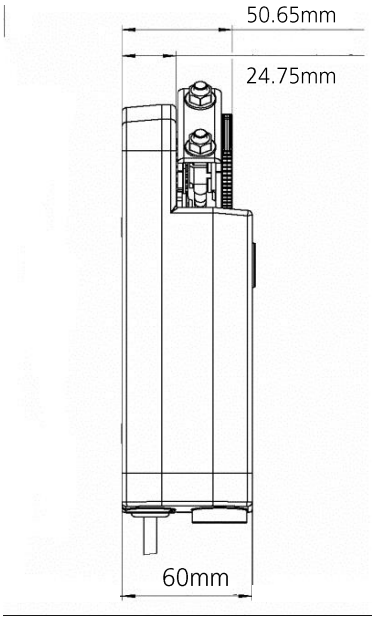
Operating Modes & Connections (continued)

Adjustment of auxiliary switches



Dimensions





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