



techsystem

automatyka klimatyzacja wentylacja

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**S9210-BxC-xxx / S9220-BxC-xxx
ON/OFF (2-Point) Springback Actuator for Fire Damper**

Application

The **JOHNSON CONTROLS SECURITY FIRE** electric, springback damper actuator series has been specially developed for the motorized operation of safety dampers e.g. fire and smoke protection dampers.

When the control signal is applied the actuator drives the damper to the operational position, while evenly tensioning the integrated spring. After a power failure the stored energy in the spring immediately brings the damper to the safety position.

Manual operation is automatically cancelled when the actuator is in electrical operation.

Features

- 2-Point control signal
- 10/11/12/14 mm steel adapter for a square shaft
- Connection with halogen-free cable
- Direct connection of ST1.72E temperature sensor. Switch point of temperature sensor ca.72°C
- Actuator temperature sensor to monitor ambient sensor.
- Low noise level
- Manual positioning with crank handle
- 2 auxiliary switches
(See back page for settings)
- Energy saving at end positions
- Actuators available with 1 m halogen-free cable
- Devices meet CE requirements



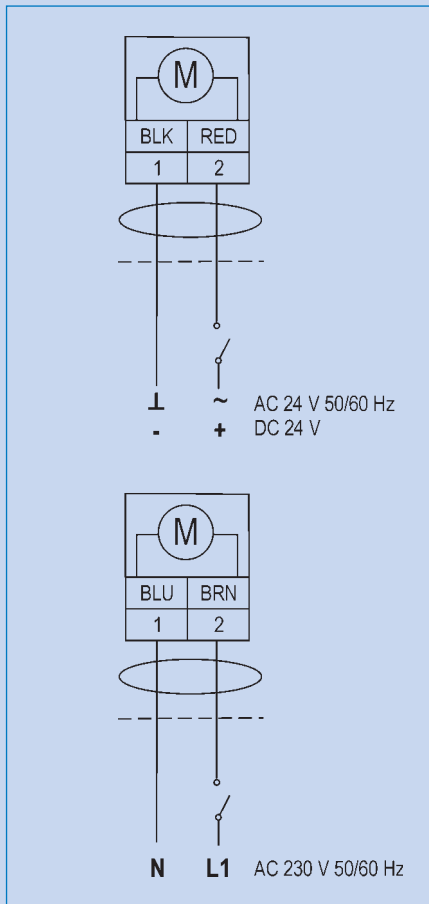
Technical Specifications

Actuator	S9210-BGC-xxx	S9210-BDC-xxx	S9220-BGC-xxx	S9220-BDC-xxx
Torque	10 Nm	10 Nm	20 Nm	20 Nm
Damper area*	Per manufacturer's information			
Running time Motor	24...55 s			
Running time Spring return	10...15 s			
Supply Voltage	AC/DC 24V	AC 230 V	AC/DC 24V	AC 230 V
Frequency	50-60 Hz			
Power Consumption				
- Running	10.0 W			8.0 VA
- At end position	4.0 W			4.5 W
Dimensioning	18.0 VA			
Weight	2.7 kg			2.9 kg
Control signal	ON/OFF (2-Point)			
Position signal	None			
Angle of rotation				
- Working range	90°			
- Limitation	None			
Auxiliary Switches	3(1.5) A, AC 230 V			
- S1 setting range	5° fix			
- S2 setting range	85° fix			
Cable	1.2 m halogen-free			
- Motor	2-wire 1-2			
- Switches	6-wire 21-22-23-24-25-26			
Lifetime	60'000 Rotations			
Noise level	66 dB (A)			
Protection class	II			
Degree of protection	IP 54			
Mode of action	Type1			
Ambient conditions				
- Operating temperature	-40...+55 °C / IEC 721-3-3			
- Storage temperature	-65...+85 °C / IEC 721-3-2			
- Humidity	5...95% r.F. no condensed			
Service	Maintenance-free			
Standards				
- Mechanics	EN 60 529 / EN 60 730-2-14			
- Electronics	EN 60 730-2-14			
- EMC Emissions	EN 50 081-1:92 / IEC 61000-6-3:96			
- EMC Immunity	EN 50 082-2:95 / IEC 61000-6-2:99			

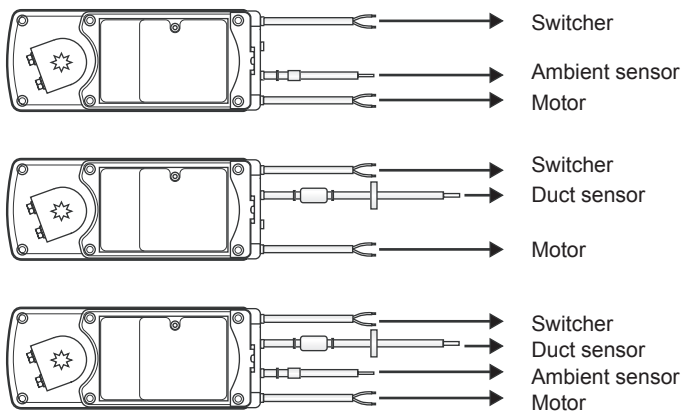
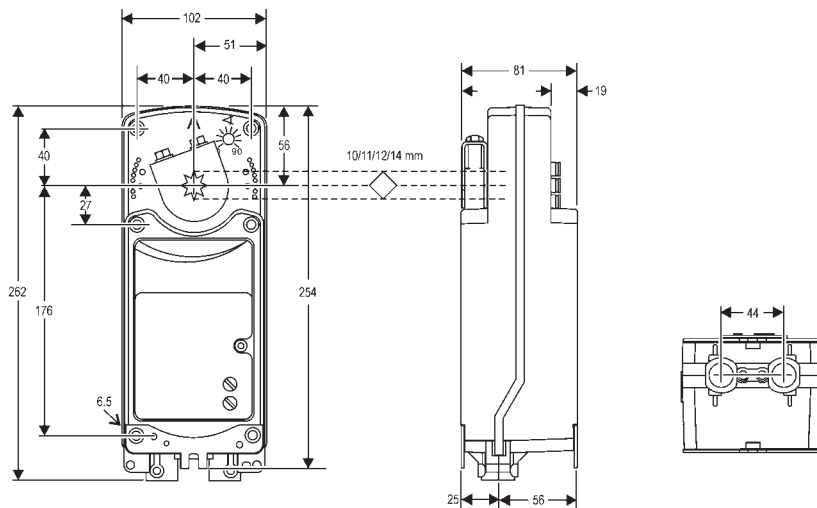
*Caution: Please note damper manufacturer's information concerning the open/close torque.

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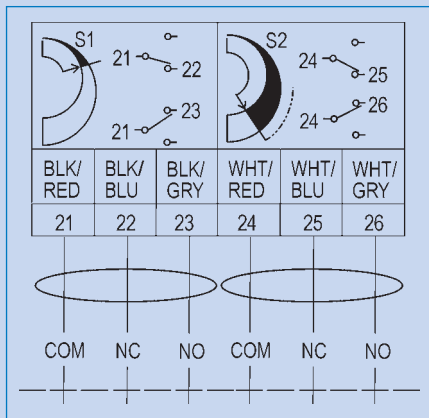
Wiring Diagrams



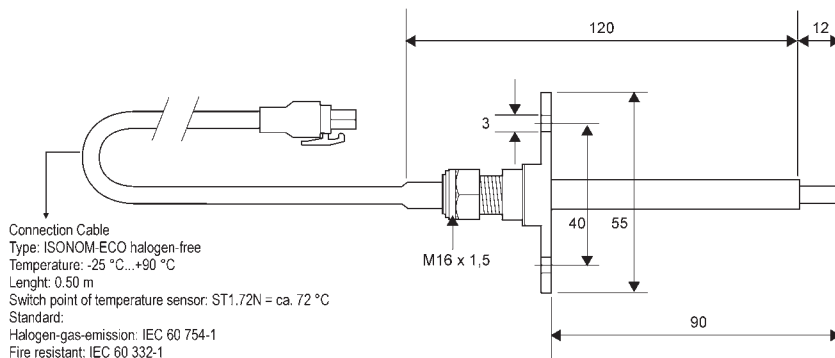
Dimensions in mm



Auxiliary Switches (S)



Temperature sensor ST1.72E



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Ordering Codes

S	9	2	10	-	B	D	C	-	31	A	
											ON/OFF actuator with 2 auxiliary switches
											A = with ambient thermosensor B = with duct sensor C = with duct and ambient sensors
											31 = 10mm Coupler 32 = 11mm Coupler 33 = 12mm Coupler 34 = 14mm Coupler
											D = 230Vac G = 24V AC/DC
											10 = 10Nm 20 = 20Nm