



## 16 Nm Spring Return Actuators for On/Off, 2 or 3-Wire Floating or Proportional Control of Damper

### General

The 16S Series spring return damper actuators are designed for drive medium sized damper with 2 or 3-wire floating, on/off and proportional voltage / current control (with resistor) to operate dampers in air control system.

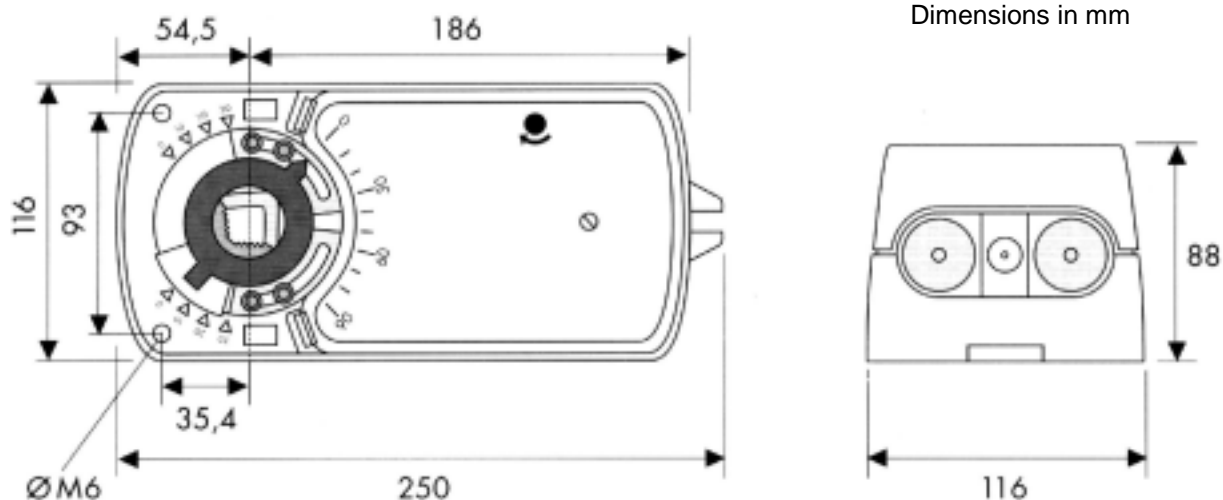
### Key Features

A key feature of the design is the special spindle adapter which also incorporates angle-of-rotation limiting and position indication. Auxiliary switches and Potentiometer are available for separate order, however 0 – 10 VDC position signal feature is built-in for proportional control models. For ease of installation, the actuator mounts directly onto the damper shaft in minutes

- 2 or 3-point control, 0-10 VDC control
- Direct connection of thermal sensor
- Load independent running time
- Paralleling of up to 10 actuators possible
- Screw terminal connections
- Universal adapter for:  
Round spindles from 10 to 20 mm dia.  
Square spindles 10 to 16 mm
- Choice of rotation
- Angle-of-rotation limiting
- Manual control by pushbutton
- Power saving at end stops
- Customizing available

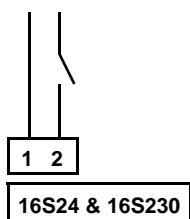


# DAMPER ACTUATOR 16S

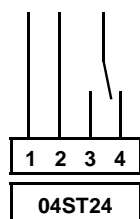


## Wiring Diagram

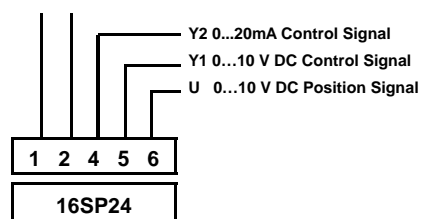
**2-wire control**  
 $\perp$  ~ 24 V AC



**3-wire control**  
 - + 24 V DC



$\perp$  ~ 24 V AC  
 - + 24 V DC



## Specifications

Control and Supply Voltage	16S24, 16ST24	On/Off (Floating)	24 VAC/DC
	16S230	On/Off (Floating)	230 VAC
	16SP24	0 – 10 VDC control	24 VAC/DC
Power Consumption	16S24, 16ST24	10W running, 4W at ends	
	16S230	8W running, 4.5W at ends	
	16SP24	7W running, 0.6 at ends	
Torque and Damper area	16 Nm, 4 m <sup>2</sup>		
Angle of Rotation	Max. 93° (Adjustable)		
Auxiliary switch rating	3 (1.5) Amp 230V		
Running Time	Motor	90...120 sec	
	Spring	10 sec.	
Noise Level	Max. 50 dB (A)		
Manual Override	External push button		
Protection	IP 42		
Ambient Limitation	-20...50 °C, max. 95% RH		
Approvals	CE compliant		
Weight	2.9 kg		