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RUS-S24-MOD Electric 24 Volt modulating Control Damper & Louver Actuator

DIRECT COUPLED SPRING RETURN

DESCRIPTION

Ruskin model RUS-S24-MOD electric modulating (proportional) spring return actuator designed for factory mounting on dampers and operable louvers. Actuators can be mounted directly to a damper or louver shaft from 1/4 to 1/2 inch (6 to 12 mm) diameter with a universal clamp

FEATURES

- Designed specifically to operate damper and operable louver applications up to the square footage face area listed below.
- Reversible mounting design simplifies installation and enables the actuator to be spring return in either direction.
- Electronic stall detection through entire rotation range extends life by deactivating the motor when an overload condition is detected.
- 5 Year factory warranty



RUS-S24-MOD Electric Spring-Return Actuator

TECHNICAL INFORMATION

COMMERCIAL DAMPER FACE AREA*	6 sq. ft. with seals 12 sq. ft. without seals
LOUVER FACE AREA	10 sq. ft. with seals 18 sq. ft. without seals
RUNNING TIME	Drive: 150 sec Spring: < 23 sec
INPUT SIGNAL	0(2) to 10 VDC 0(4) to 20 mA (w/ 500 ohm resistor)
POSITION FEEDBACK	0(2) to 10 VDC
POWER SUPPLY	AC 24 V 50/60 Hz OR DC 24 V
POWER CONSUMPTION	AC: Running 4.7 VA, Holding 2.7 VA DC: Running 1.8 W, Holding 1.0 W
TRANSFORMER SIZE	6 VA
DIRECTION OF ROTATION	Reversible with cw/ccw mounting
POSITION INDICATION	Visual indication 0° to 95°
OPTIONAL AUXILIARY SWITCH (-S Models)	N/A (Consult Ruskin Special Order)
ELECTRICAL PROTECTION	Double insulated
ELECTRICAL CONNECTION	3 ft, 18 ga appliance cable (-S models have 2 cables) 1/2" conduit connector
OVERLOAD PROTECTION	Electronic throughout 0° to 95° rotation
ROTATION PROTECTION	Max 95° adjust. with mechanical stop (optional)
HOUSING	NEMA 2 (IP54)
HOUSING MATERIAL	Lexan 945
HUMIDITY	5 to 90% non-condensing

TECHNICAL INFORMATION

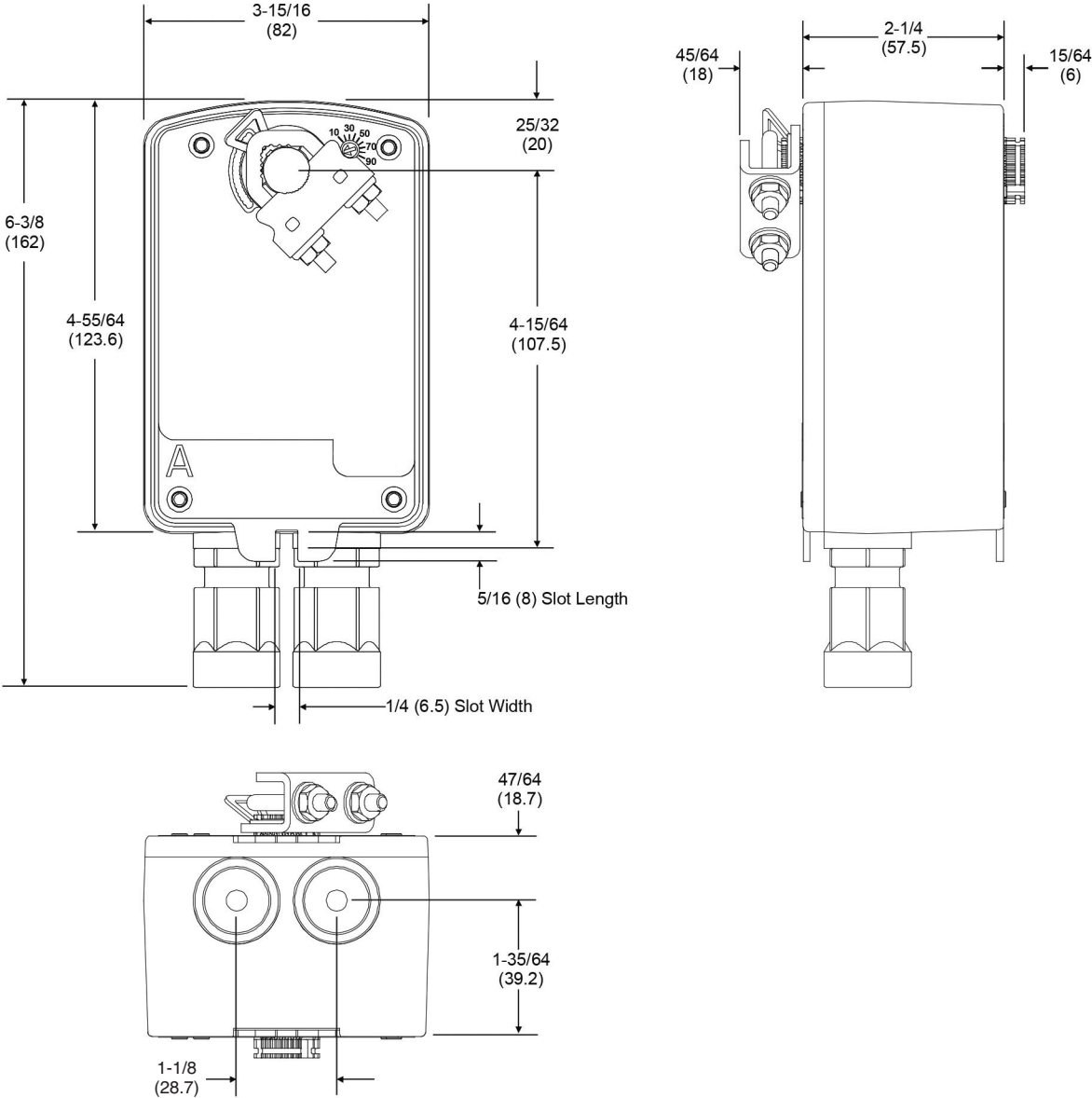
AMBIENT TEMPERATURE	-22° to 140°F (-30° to 60°C)
STORAGE TEMPERATURE	-40° to 185°F (-40° to 85°C)
AGENCY LISTINGS	UL 60730-1A: 2003-08 UL 60730-2-14: 2002-02 UL 2043 C22.2 No. 24-93
NOISE LEVEL AT APPROX. 40" DISTANCE	Drive: <28 dba Holding: <20 dba Spring: <56 dba
WEIGHT	RUS-S24-MOD: 2.0 lb (0.9 kg) RUS-S24-MOD-S: 2.4 lb (1.1 kg)
SERVICING	Maintenance free
QUALITY STANDARD	ISO 9001

ACCESSORY

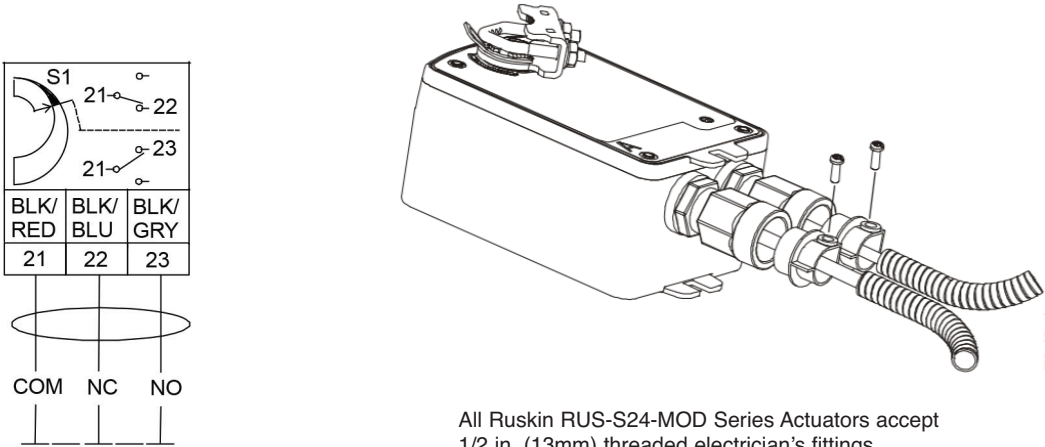
ADJUSTABLE END STOP KIT	Part #M9203-603 From 35° to 95° in 5° increments
WEATHER SHIELD	Part #M9000-322 NEMA4X, IP66 impact-grade plastic enclosure with UV inhibitors to extend life

*Consult Ruskin for proper actuator sizing on TED50 series dampers

DIMENSIONS

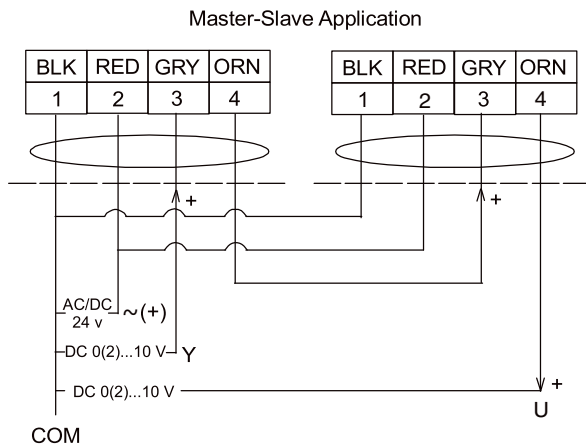
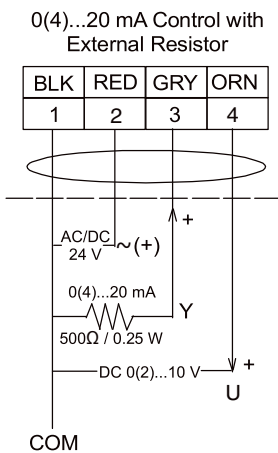
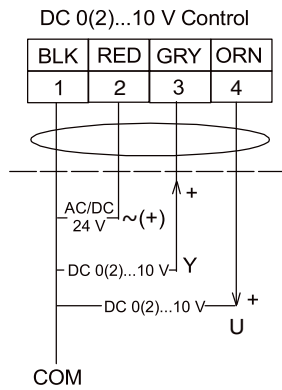


WIRING AND CONDUIT CONNECTIONS

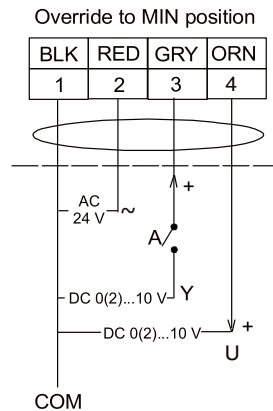


All Ruskin RUS-S24-MOD Series Actuators accept 1/2 in. (13mm) threaded electrician's fittings.

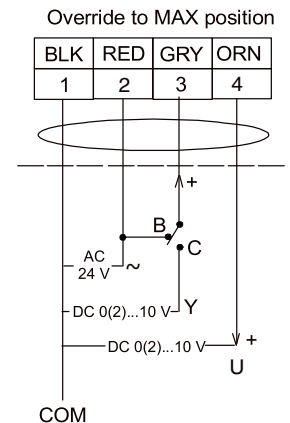
WIRING RUS-S24-MOD PROPORTIONAL ACTUATORS



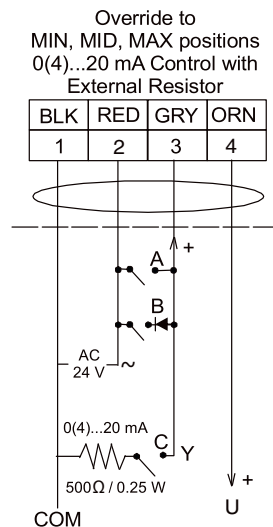
RUS-S24-MOD Control Wiring Diagram



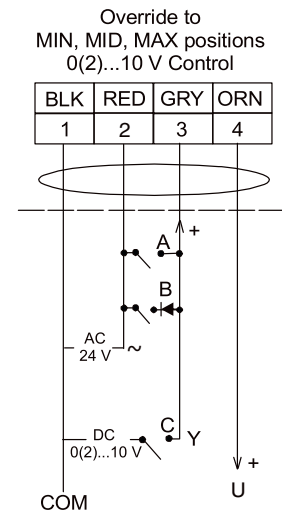
A Open = MIN Position
A Closed = Normal Operation



B Closed = MAX Position
C Closed = Normal Operation



FUNCTION	A	B	C
0% (MIN)			
50% (MID)			
100% (MAX)			
NORMAL			



FUNCTION	A	B	C
0% (MIN)			
50% (MID)			
100% (MAX)			
NORMAL			

RUS-S24-MOD Control Wiring Diagram
(Overrides)

IMPORTANT: Do not install multiple RS-S24-MOD Actuators connected to the same mechanical load. Master-slave application of RUS-S24-MOD Actuators requires that each actuator be connected to independent loads.