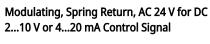
Technical data sheet

TFRB24-SR









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Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	2.5 W
	Power consumption in rest position	1 W
	Power consumption for wire sizing	4 VA
	Transformer sizing	4 VA (class 2 power source)
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2"

Functional data Operating range Y 2...10 V

Overload Protection

Operating range Y	210 V	
Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)	
Input Impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA	
Position feedback U	210 V	
Position feedback U note	Max. 0.5 mA	
Direction of motion motor	selectable with switch 0/1	
Direction of motion fail-safe	reversible with cw/ccw mounting	
Angle of rotation	Max. 95°	
Running Time (Motor)	95 s	
Running time fail-safe	<25 s @ 20°C	
Noise level, motor	35 dB(A)	
Noise level, fail-safe	62 dB(A)	
Position indication	Mechanical	
	-	

conduit connector

electronic throughout 0...95° rotation

Safety data

Degree of protection IEC/EN	IP42	
Degree of protection NEMA/UL	NEMA 2	
Enclosure	UL Enclosure Type 2	
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU; Listed to UL 2043 - suitable for us in air plenums per Section 300.22(c) of the NEO and Section 602.2 of the IMC	
Quality Standard	ISO 9001	
Ambient temperature	-22122°F [-3050°C]	
Storage temperature	-40176°F [-4080°C]	
Ambient humidity	Max. 95% RH, non-condensing	
Servicing	maintenance-free	
Weight	1.6 lb [0.80 kg]	

Weight

Materials	Housing material	UL94-5VA
water iais	riousing material	0674-217



Footnotes †Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3

Electrical installation

INSTALLATION NOTES

Provide overload protection and disconnect as required.

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

Actuators may also be powered by DC 24 V.

6 Only connect common to negative (-) leg of control circuits.

 Λ A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

Actuators with plenum cable do not have numbers; use color codes instead.

Meets cULus requirements without the need of an electrical ground connection.

Warning! Live electrical components!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

Wiring diagrams

