

Linear actuator with 'built-in' driver



8623R002

DATASHEET

Technical Specification for Linear Actuator 8623R002 *with PWM Electronic*

Operating Supply Voltage 9 to	16 VDC	
Supply Current (Ubatt = 13.2 V)	380 mA 150 mA	(Linear actuator moving) (Linear actuator standing)
PWM Signal Definition Frequency Intern pull-up resistor Input High voltage Input Low voltage	(see note 1) 140 Hz ± 5% 1.0 kΩ > 6.4V < 3.2 V	(to Ubatt)
PWM <= 3 %	0 mm 0 to 8.5 mm 8.5 mm Full extended	(Error, ready output low,
Output driver	Bipolar half ste	ep (Currents are reduced to 1/2 when actuator standing)
Linear Velocity Ubatt > 12 V Ubatt >= 9 V to 12 V	8 mm/s 4 mm/s	
Actuator Force	> 15 N (l T	Jbatt 9 to 16 V) emperature - 40°C to 100°C)
Ready output Open collector High output voltage Pull-down resistor	Imax 20mA > 7 V for Ubatt External, min 1	:=12V I.2 kΩ

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Fault conditions Ubatt < 8 V	(ready output low) Full extended position when suppl	(Coils powered, return to y voltage > 9V)
Ubatt < 7 V	Reset (brown-out) (Initialisation when supply voltage > 9V and return to position)	
PWM short or open	Full extended 500 ms after error (Return to position when PWM OK)	
PWM frequency out of tol.	Full extended (Return to position v	500 ms after error when PWM OK)
Protection features		
Wrong inputs connections Jump start 28V 60s Short of coils to ground	No defect No defect No defect (Ready after 5 release	y output low, initialisation 0 ms that short is ed and return to position)
Operating Temperature	-40°C to 100°C	Actuator

Notes

1) The PWM Signal in % is the ratio of the time duration between the negative and the positive slope and the time duration between 2 negative slopes

2) Ready output is turned low after 500ms.

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CONNECTION DIAGRAM

Connections :



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