

- Mechanical Fail-Safe Rotary Actuators for:
- Torque: 4Nm
- Modulating control: L(R)F24-SR (AC/DC 24V)
- 3-point control: LF24-3 (AC/DC 24V)
- Open/Close control: LRF24(-S) (AC/DC 24V)  
LRF230(-S) (AC 230V)



## Technical data

Basic technical data		Torque	4Nm	
		Angle of rotation	90°	
		Direction of rotation-motor	Selected by mounting side of L/R	
		-spring return	Selected by mounting side of L/R or reversing	
		Sound power level	Motor: ~45dB(A), spring return: ~62dB(A)	
		Position indicator	Mechanical	
		Running time	-motor ~150s (L(R)F24-SR) ; 40...75s (LF24-3, LRF24(-S), LRF230(-S)) -spring return ~20s (-5...+50°C) / ~ 60s (-30°C)	
		Ambient temp.	-5...+50°C	
		Non-operation temp.	-5...+80°C	
		Temp. of medium	-5...+100°C	
		Humidity	5...95% RH, non-condensing	
		Degree of protection	IP54	
		EMC	CE according to 89/336/EEC	
		Maintenance	Maintenance-free	
		Linkage	Linkage included in LRF..	
L(R)F24-SR		Nominal voltage range	AC 19.2...28.8V / DC 21.6...28.8V	
		Power consumption -running	2.5W	
		-holding	1W	
		For transformer sizing	5VA	
		Connecting cable	Cable 1m, 4x0.75mm <sup>2</sup>	
		Control signal Y	DC 2(0)...10V @ input impedance 100kΩ	
		Position feedback signal U	DC 2...10V	
		Protection class	III (safety extra-low voltage)	
		Weight	1.4kg	
LF24-3		Nominal voltage range	AC 19.2...28.8V / DC 21.6...28.8V	
		Power consumption -running	2.5W	
		-holding	1W	
		For transformer sizing	5VA	
		Connecting cable	Cable 4m, 3x0.75mm <sup>2</sup>	
		Protection class	III (safety extra-low voltage)	
		Weight	1.4kg	
LRF24(-S)		Nominal voltage range	AC 19.2...28.8V / DC 21.6...28.8V	
		Power consumption -running	5W	
		-holding	2.5W	
		For transformer sizing	7VA	
		Connecting cable	-motor Cable 1m, 2x0.75mm <sup>2</sup> -S Cable 1m, 6x0.75mm <sup>2</sup>	
		Protection class	III (safety extra-low voltage)	
		Auxiliary switch (LRF24-S)	2XSPDT, 1mA...3(0.5)A, AC 250V, fixed at 10°↙, 85°↘	
		Weight	1.4~1.54kg	
LRF230(-S)		Nominal voltage range	AC 198...264V	
		Power consumption -running	5W	
		-holding	3W	
		For transformer sizing	7VA	
		Connecting cable	-motor Cable 1m, 2x0.75mm <sup>2</sup> -S Cable 1m, 6x0.75mm <sup>2</sup>	
			Protection class	II (Totally insulated)
			Auxiliary switch (LRF230-S)	2XSPDT, 1mA...3(0.5)A, AC 250V, fixed at 10°↙, 85°↘
			Low voltage directive	CE according to 73/23/EEC
		Weight	1.55~1.68kg	

## Product features

**Simple direct mounting**

Simple direct mounting on the Ball Valve using only one screw.

**Manual operation**

LRF.. have manual operation with integral position stop.

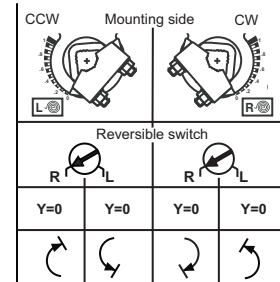
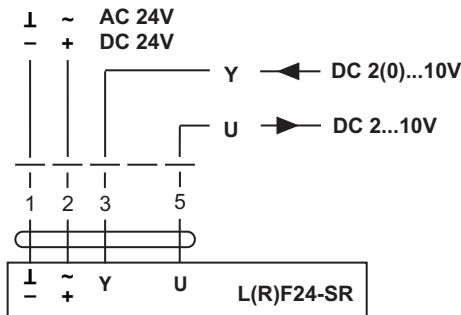
**High function reliability**

The actuator is overload-proof, needs no limit switches and stops automatically at the end stops.

## Wiring diagrams

### L(R)F24-SR

#### Modulating control

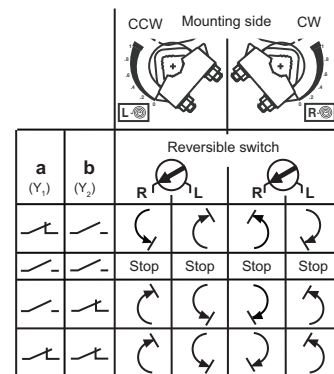
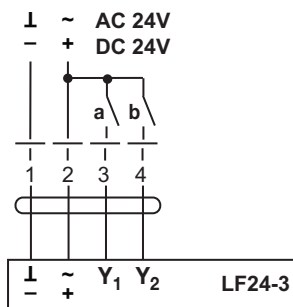


**Notes:**

- Connection via safety isolating transformer.
- Other actuators can be connected in parallel. Please note the performance data.

### LF24-3

#### 3-point control

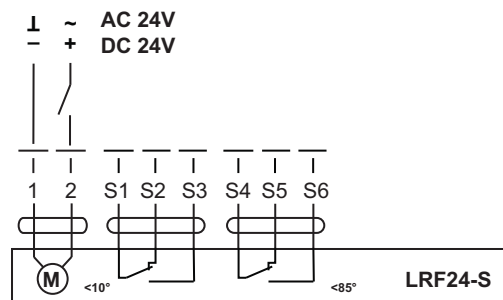
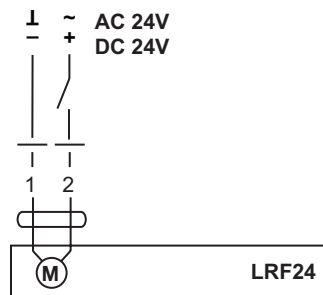


**Notes:**

- Connection via safety isolating transformer.
- Other actuators can be connected in parallel. Please note the performance data.

### LRF24(-S)

#### Open/Close control

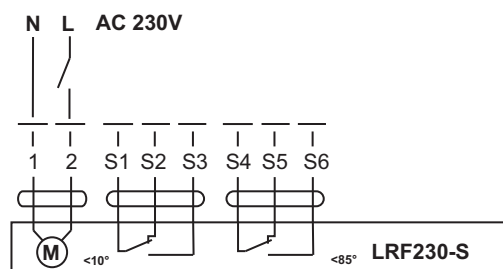
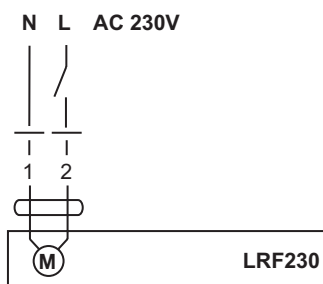


**Notes:**

- Connection via safety isolating transformer.
- Other actuators can be connected in parallel. Please note the performance data.

### LRF230(-S)

#### Open/Close control



**Notes:**

- Caution: Power supply voltage!
- Other actuators can be connected in parallel. Please note the performance data.