

- 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	Min. 4Nm @ nominal voltage
		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: max. 45dB(A), spring return: max. 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.	-30...+50°C
		Non-operation temp.	-40...+80°C
		Temp. of medium	+5...+100°C (in control ball valve)
		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, 50/60Hz / DC 21.6...28.8V
		Power consumption -running	2.5W @ nominal torque
		-holding	1W
		For transformer sizing	5VA
		Connecting cable	Cable 1m, 4x0.75mm ²
	Control signal Y	DC (0)2...10V @ input impedance 100kΩ	
	Position feedback signal U	DC 2...10V	
	Protection class	III (Extra-low voltage)	
	Weight	1.4kg	
LF24-3		Nominal voltage range	AC 19.2...28.8V, 50/60Hz / DC 21.6...28.8V
		Power consumption -running	2.5W @ nominal torque
		-holding	1W
		For transformer sizing	5VA
		Connecting cable	Cable 4m, 3x0.75mm ²
	Protection class	III (Extra-low voltage)	
	Weight	1.4kg	
LRF24(-S)		Nominal voltage range	AC 19.2...28.8V, 50/60Hz / DC 21.6...28.8V
		Power consumption -running	5W @ nominal torque
		-holding	2.5W
		For transformer sizing	7VA
		Connecting cable	-motor Cable 1m, 2x0.75mm ² -S Cable 1m, 6x0.75mm ²
	Protection class	III (Extra-low voltage)	
	Auxiliary switch (LRF24-S)	2XSPDT, 1mA...3(0.5)A, AC 250V, fixed at 10°↙, 85°↘	
	Weight	1.4kg	
LRF230(-S)		Nominal voltage range	AC 198...264V, 50/60Hz
		Power consumption -running	5W @ nominal torque
		-holding	3W
		For transformer sizing	7VA
		Connecting cable	-motor Cable 1m, 2x0.75mm ² -S Cable 1m, 6x0.75mm ²
		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	1.4kg	

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.

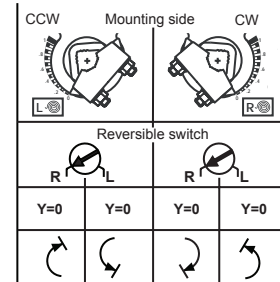
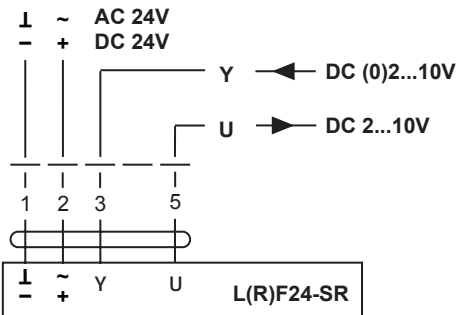
High function reliability

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

Wiring diagrams

L(R)F24-SR

Modulating control

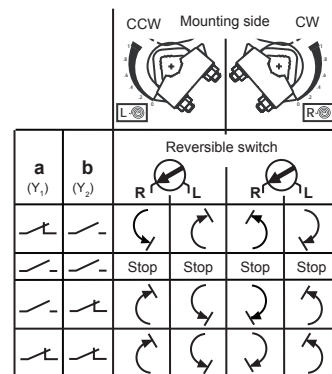
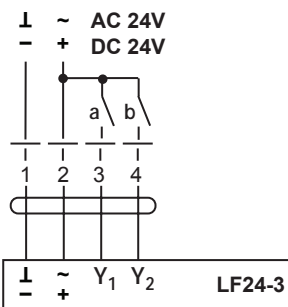


Notes:

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

LF24-3

3-point control

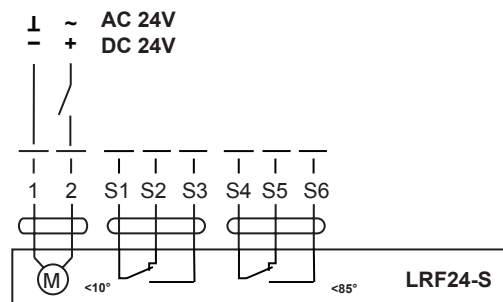
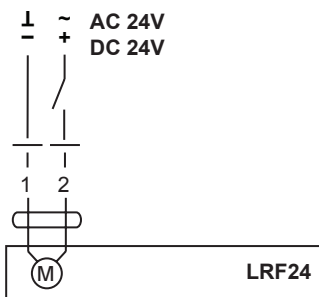


Notes:

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

LRF24(-S)

Open/Close control

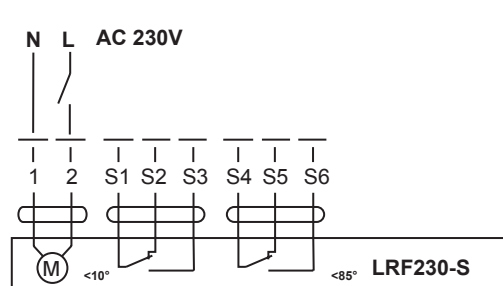
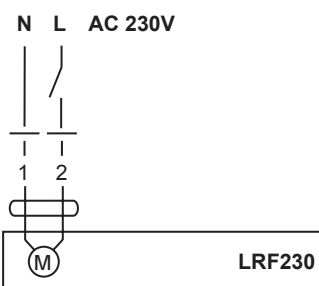


Notes:

- 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.

Dimensions [mm]

L(R)F..

