

Rotator - Cheat Sheet

MODE	Functions	DMX ch.	Function
0	Neutral function - motor stops	1	Position rough (Hi of a 16 bit DMX channel)
1	Slow speed change (ramp)	2	Position fine (Lo of a 16 bit DMX channel)
2	Normal speed change (ramp)	3	Set the maximum speed
3	Fast speed change (ramp)	4	Manual CW / Set soft CW limit
4,5,6	Neutral function - motor stops	5	Manual CCW / Set soft CCW limit
7	Manual clockwise (DMX address = speed)	6	Mode control 0-79% Position mode 51-54% Position mode 'soft limit' save enabled 80-100% Angular mode
8	Manual counter clockwise (DMX address = speed)		
9	Neutral function - motor stops		



Before each use

- Check that the winch is safely and correct installed/mounted
- Inspect the **Rotator** for damage, wear, corrosion or abuse.
- Ensure that the **Rotator** is correctly and safely mounted
- Ensure that the attached load is correctly mounted

Warning! Do not use the winch if any damage or error is found!

Green LED indicators:

LED next to the DMX-selectors.

Glows constant: DMX connection is correct.

Flash: DMX signal is missing.

LED next to the MODE-selector.

Fast flashing: The rotator needs to be reset, before it can be used.

Slow flashing: The rotator is rotating towards the set position

Steady light: The set position has been reached and the motor stopped.

Tech specs:

	280	281
Rotational speed	0.85-13.6 rpm	0.15-6.8 rpm
Working Load Limit		3× slim couplers
- Shaft down	50 kg (110 lb)	150 kg (330 lb)
- Shaft up	0 kg (0 lb)	100 kg (220 lb)
- Shaft sideways	0 kg (0 lb)	50 kg (110 lb)
Maximum attachment current:		10A (Only 281)

How to get started

1. Mount the rotator according to the instructions in the user manual, refer to the section "Physical installation".
2. Set the DMX address using the 100, 10, and 1 switches. Set MODE 1
3. Apply DMX from a Lighting desk, best is a desk with manual faders. Pull all channels on to 0%
4. Apply power to the rotator.
DMX lamp should be lit, and the mode lamp should be flashing.

Position mode

5. Set channel 6 to 52% and channel 4 to 30% - **Slow CW rotation starts.**
6. When the wanted soft CW limit is found - set channel 4 to 0% and channel 5 to 30% - **Slow CCW rotation starts.**
7. When the wanted soft CCW limit is found - set channel 5 to 0%.
8. Set channel 3 to 50% and channel 1 to 25% - **Rotation starts with 50% speed, to the position 25% from soft CW limit.**

Angular positioning mode

9. Set all channels (1 - 6) to 0%.
10. Set channel 6 to 100% (Angular mode).
11. Set channel 3 to 50% and channel 4 to 30% (Manual CW) - **Slow CW rotation starts. Let it rotate minimum one rotation.**
(This must be done for each power cycle, for the rotator to identify its angular zero position)
12. Set channel 4 to 0% and channel 1 to 25% (Position) - **Rotation starts with 50% speed till it reaches the 90°-position.**
13. Set channel 1 to 75% -**Now the rotator rotates CW until it reaches 270° with 50% speed.**

Note: It is possible to change between constant CW or CCW rotation and angular positioning mode while the rotator is running. During change from constant CW/CCW rotation the rotator will always continue in the same direction until the wanted angular position is found. When the rotator is in angular positioning mode it will select the rotation direction that will give the shortest direction.

*CW: Clockwise CCW: Counter clockwise