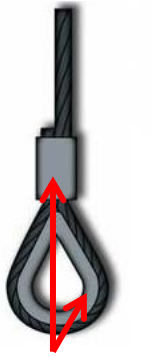
Winch5 - Cheat Sheet

wahlberg
MOTION DESIGN

MODE	Functions	DMX ch.	Function
0	Neutral function – motor stops	1	Position rough (Hi of a 16 bit DMX channel)
1	Positioning with auto TOP reset	2	Position fine (Lo of a 16 bit DMX channel)
2	Positioning with manual TOP reset	3	Set the maximum speed
3,4,5,6	Stops the motor unless specified otherwise	4	Set the soft TOP limit
7	Manual run up (DMX address = speed)	5	Set the soft BOTTOM limit
8	Manual run down (DMX address = speed)	6	Find hard TOP limit, moving up (reset speed)
9	Used for re-calibrating overload	7	Moving down

Intact wire

Broken wire



Inspection points

Before each use

- Check that the winch is safely and correct installed/mounted.
- Inspect the entire length of the **wire rope** for bends, damage,
- wear, cut cord, corrosion, and abuse.
- Inspect the **wire ferrule crimp** and **thimble** for damage, wear, corrosion or abuse.
- Secure that the load is safely attached and weighs max 10 kg.
- Check all limit switches.
- Check the slack detection device

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

How to get started

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1. Place / Rig the winch in something high with minimum 2-3 meter below.
2. Put on counterweight on the winch, minimum 0.4 kg (0.88 lb).
3. Set the DMX start address to 001, and the MODE to 2.
4. Apply DMX from a lighting desk, preferably with manual faders.
   Make sure that the 7 channels are patched from DMX channel 1 to 7. Pull all channels on to 0%
5. Apply power to the winch. ***DMX lamp should be lit, and the mode lamp should be flashing.***
6. Pull channel 6 to 20% - the winch starts pulling the wire.
   When the wire is at the hard TOP limit (pulled into the winch), stop the winch (pull channel 6 to 0%)
   NOW the winch has found its TOP position and is ready to drive with position control.
7. Pull channel 1 (position) to 95%. Pull channel 3 (speed) to 20%
   Now the winch start to move down, with 20% speed, to the 95% up-position.
8. Pull channel 1 (position) to 80%
   Now the winch starts to move down, with 20% speed, to the 80% up-position.
9. Pull channel 1 (position) to 90%. Pull channel 3 (speed) to 50%
   The Winch starts to move UP again, with 50% speed, and stops 1 meter before the top.

Green LED indicators:

LED next to the DMX-selectors.

Glows constant:	DMX connection is correct.
Flash:	DMX signal is missing.

LED next to the DMX-selectors.

Fast flashing:	The winch needs to be reset, before it can be used.
Slow flashing:	The winch's load is moving towards the set position
Steady light:	The set position has been reached and the motor stopped.

Tech specs (winch 5):

Lifting speed	Variable 5-55 cm/s (2-21.7 in/s)
Minimum load	0.4 kg (0.88 lb)
Maximum load	5.0 kg (11.0 lb)
Expected wire life time	
– 2.5 kg	up to 80,000 cycles (down + up)
– 5.0 kg	up to 20,000 cycles (down + up)