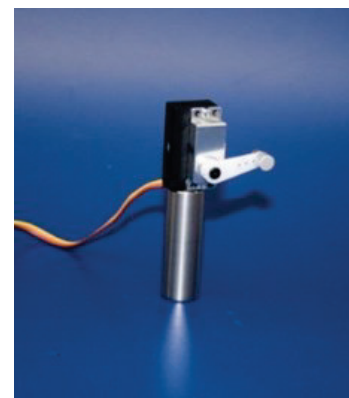


Servo Motor and controller Settings

Mini Servo Motor

- Configuration Digital
- Operating speed (at 4.8 V) 0.055 s/60° without load
- Center position pulse length 760 μ s
- Stall Torque (at 4.8 V) 2.3 kg·cm
- Maximum pulse frequency 333 Hz
- Minimum pulse period 3000 μ s
- Minimum pulse length (typical) 500 μ s Channels A, B, C, D preprogrammed
- Maximum pulse length (typical) 1000 μ s Channels A, B, C, D preprogrammed



Titanium Mini Servo Motor

- Configuration Digital
- Operating speed (at 4.8 V) 0.047 s/60° without load
- Center position pulse length 760 μ s
- Stall Torque (at 4.8 V) 1.92 kg·cm
- Maximum pulse frequency 333 - 560 Hz
- Minimum pulse period 3000 μ s
- Minimum pulse length (typical) 500 μ s Channels A, B, C, D preprogrammed
- Maximum pulse length (typical) 1000 μ s Channels A, B, C, D preprogrammed

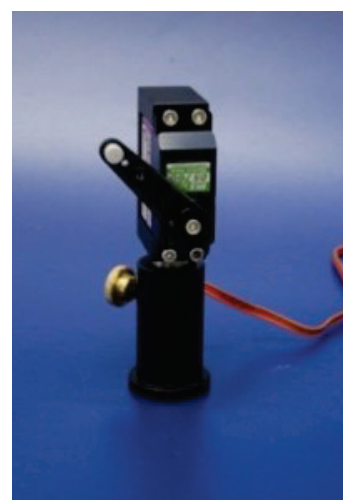
Medium Speed Servo Motor

- Configuration Digital
- Dead band 8 μ s
- Operating speed (at 4.8 V) 0.052 s/60° without load
- Center position pulse length 760 μ s
- Stall Torque (at 4.8 V) 2.1 kg·cm
- Maximum pulse frequency 560 Hz
- Minimum pulse period 1786 μ s
- Minimum pulse length (typical) 500 μ s Channels A, B, C, D preprogrammed
- Maximum pulse length (typical) 1000 μ s Channels A, B, C, D preprogrammed



Compact Titanium Gear High Speed Servo Motor

- Configuration Digital
- Dead band 8 μ s
- Operating speed (at 4.8 V) 0.034 s/60° without load
- Center position pulse length 760 μ s
- Stall Torque (at 4.8 V) 3.9 kg·cm
- Maximum pulse frequency 560 Hz
- Minimum pulse period 760 μ s
- Minimum pulse length (typical) 500 μ s Channels A, B, C, D preprogrammed
- Maximum pulse length (typical) 1000 μ s Channels A, B, C, D preprogrammed



All channels are preprogrammed with factory default parameters. The time base values are changed to 3000 μ s. These parameters are saved to the EEPROM and if there is a need for modification, the parameters have to be re-saved with the command **save**. To restore the saved parameters, the command **restore** has to be sent to the controller.

Servo Motor and controller settings

Controller settings



All channels of the controller are preprogrammed for medium servo motors (parameters in EEPROM), by default time base 1 is used with all servo channels.

Parameter	Value	Commands to set parameters	Commands to read parameters	Answer from controller	Factory default
Time base	1	ta=1 tb=1 tc=1 td=1	ta? tb? tc? td?	1 1 1 1	1 1 1 1
Period (t1) Period (t2) – not used	3000 μ s 3000 μ s	t1=3000 t2=3000	t1? t2?	3000 3000	2500 20000
Min pulse length	500 μ s	a=500 b=500 c=500 d=500	a? b? c? d?	499 499 499 499	499 499 499 499
Max pulse length	1000 μ s	A=1000 B=1000 C=1000 D=1000	A? B? C? D?	998 998 998 998	998 998 998 998
Power on time	200 ms	pta=200 ptb=200 ptc=200 ptd=200	pta? ptb? ptc? ptd?	200 200 200 200	200 200 200 200
Speed	max	lta=0 ltb=0 ltc=0 ltd=0	lta? ltb? ltc? ltd?	0 0 0 0	0 0 0 0

Servo motors for lens mount with counter weight for titanium and compact shutters



Extension cables

of 0,5 m, 1 m, or 2 m available



Options

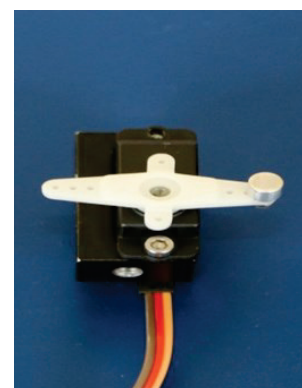
- **Arms**

Different arm lengths (15 mm, 38 mm and 52 mm) for titanium and compact shutter

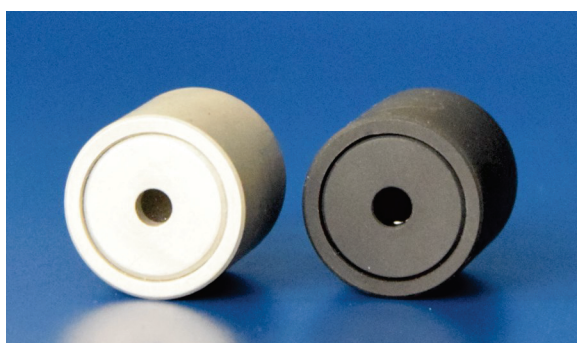


- **Double arms for mini shutters**

Optional for the wavelenghts to avoide reflexes, we offer shutters in aluminium sand blasted or mat black.



Beam Blockers for titanium and compact shutters



- Medium to high power without heat release.
- They can also be offered as static standalone units.



- High power with heat release