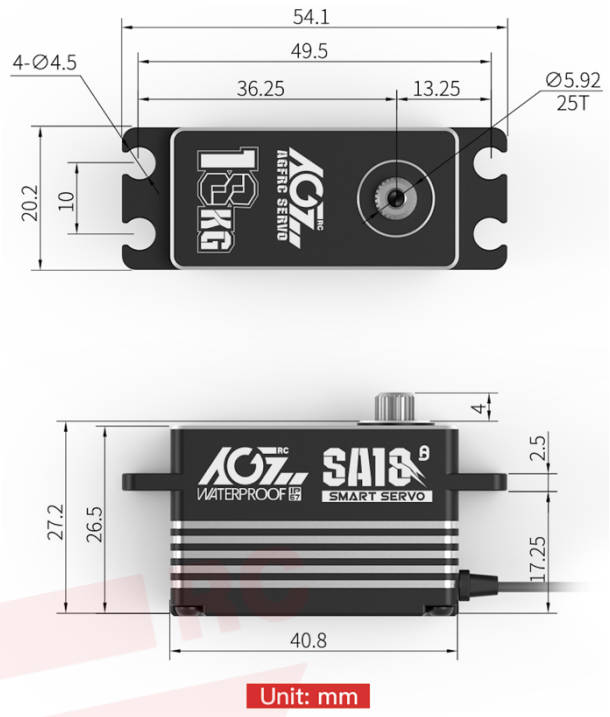
PRODUCT SPECIFICATION

SA18

Control System	PWM
Refresh Rate	333 Hz
Neutral Position	1520 µSec
Signal Mode	Digital
Dead band	2 µSec
Operating Voltage	4.8V ~ 8.4V
Operating Temp.	-15°C ~ +70°C
Bearing	2BB
Mechanical Angle	No Limit
Dimension	40.8 x 20.2 x 26.5 mm
Net Weight	55 g
Connector / Cable	TYU 180mm / 22AWG
Operating Travel	180° ± 10°
Signal Range	500 to 2500 µSec



Operating Speed	**Stall Torque**	**Unload Current**	**Loading Current**
0.14 sec/60°@ 5.0V	11 kg-cm (153 oz-in) @ 5.0V	300mA @ 4.8V	2200mA @ 4.8V
0.13 sec/60° @ 6.0V	13 kg-cm (181 oz-in) @ 6.0V	350mA @ 6.0V	2600mA @ 6.0V
0.12 sec/60° @ 7.4V	16 kg-cm (222 oz-in) @ 7.4V	390mA @ 7.4V	3000mA @ 7.4V
0.11 sec/60° @ 8.4V	18 kg-cm (250 oz-in) @ 8.4V	430mA @ 8.4V	3400mA @ 8.4V
Direction	CCW	**Motor Type**	Coreless
Waterproof Level	IP67	**Angle Sensor**	Magnetic Angle
Programmable	Yes	**Motor Drive**	FET Drive
Gear Material	Strength Steel	**Horn Gear Spline**	25T-Ø5.92mm
Case Material	Aluminum	**Bearing Material**	Metal
Wire Color (- + S)	Negative: Black	Positive: Black	Signal: Grey

Default Accessories

① 1 pc x 25T-Ø5.92mm L=45mm Plastic Horn
② 1 pc x 25T-Ø5.92mm L=40.3mm Plastic Horn
③ 1 pc x 25T-Ø5.92mm L=27.5mm Plastic Horn
④ 4 pcs x M3*12mm Screws
⑤ 1 pc x M3*8mm Screw
⑥ 4 pcs x 9*6.9*5.6mm (Ø3) Rubber Pads
⑦ 4 pcs x Ø6*Ø3.5*Ø5mm Copper Sleeves



Remark: If you have any questions about the SA18 servo, please contact shopping@agfrc.com directly.