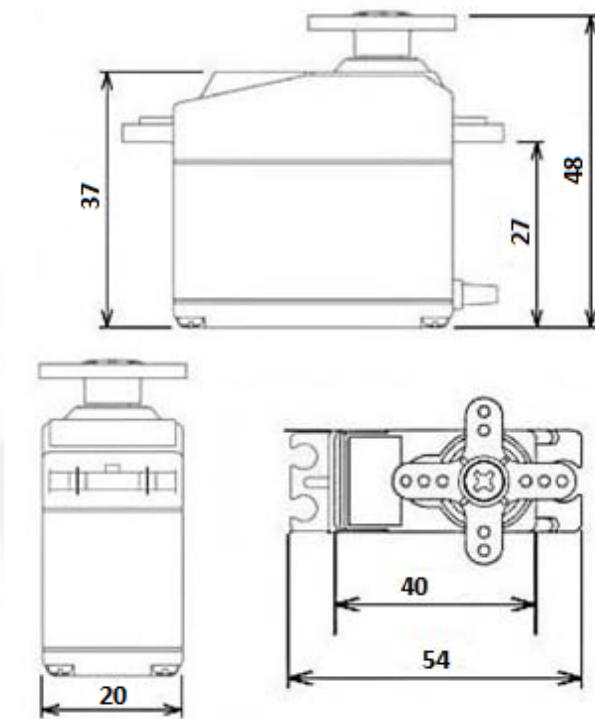


## High torque servo drive FN760R specification



The **FNND High Torque FN760R Metal Gear Smart Serial Servo with industrial (RS-485) interface** is an exclusive smart actuator with fully integrated DC motor, reduction metal gearhead, controller, driver, network in one DC servo module. FN760 series is a new concept with advanced functions like precise control, PID control, high speed communication and telemetry: angular position, velocity, current, voltage. Advanced durability, absolute encoder. This is an exclusive smart actuator with advanced functions for robotics or RC models.

This High-Torque FN760R Digital Servo features metal gearing resulting in extra high 220 N·cm maximal torque in a small package. The FN760R has shock-proof design and accurate control system. It utilizes industrial RS485 interface. This high-torque servo can rotate 140 degrees (70 in each direction). The device has short circuit, temperature, shaft clinch and overload protection. Telemetry information includes: angular position, current, voltage, temperature. Data security: CRC8. Smart actions: idling when control signal absence, soft start, automatic fault recovery (overheating, overload, servo error).

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## Specification

- Weight: 57 g
- Dimension: 48 x 20 x 54 mm .
- Interface RS-485 115200 baud, 8 bit, 1 stop, no parity
- Range +/- 90 deg
- Maximum torque: 2.2 N·m
- Maximum speed: 1200 °/s (0.05s/60°)
- Supply voltage range: 5÷36 V
- Optimal supply voltage 14V
- Quiescent current: 15 mA
- Peak current 3.5 A
- Average operation current 0.5A
- Power efficiency: 6W/( N·m)
- Environmental protection IP65
- Temperature range: -40 °C÷ +80 °C

Connection cable wires assignment:

Number	Function	Color
1	GND	Brown
2	+VCC (6-36V)	Red
3	RS485-A	Orange
4	RS485-B	Yellow



Fine Network of Nontrivial Design

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