Rotary type / Sensor specification

CE compliance Limitless rotation

## ■ Ordering method

**RF03** 

N: Standard
H: High rigidity
N: Standard torque
H: High torque

R:From the right L: From the left

Cable length N

**S2S** GW: No I/O board

SHS

B: With bat (Absolute) N: None

Note 1. The robot cable is flexible and resists bending. Note 2. See P.522 for DIN rail mounting bracket.

Note 3. Select this selection when using the gateway function. For details, see P.66.

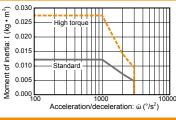
#### Basic specifications

| Motor                                 | 28 Step motor                  |             |
|---------------------------------------|--------------------------------|-------------|
| Resolution (Pulse/rotation)           | 4096                           |             |
| Repeatability Note 1 (°)              | +/-0.05                        |             |
| Drive method                          | Special warm gear + belt       |             |
| Torque type                           | Standard                       | High torque |
| Maximum speed Note 2 (°/sec)          | 420                            | 280         |
| Rotating torque (N•m)                 | 0.8                            | 1.2         |
| Max. pushing torque (N•m)             | 0.4                            | 0.6         |
| Backlash (°)                          | +/-0.5                         |             |
| Max. moment of inertia Note 3 (kg·m²) | 0.012                          | 0.027       |
| Cable length (m)                      | Standard: 1 / Option: 3, 5, 10 |             |
| Rotation range (°)                    | 360                            |             |
| N. 4 D. 20 C                          |                                |             |

Note 1. Positioning repeatability in one direction. Note 2. The maximum speed may vary depending on the moment of inertia. Check the maximum speed while referring to the "Moment of inertia vs. Acceleration/ deceleration" graph and the "Effective torque vs.

speed" graph (reference). Note 3. For moment of inertia and effective torque details. see P.641.

### Moment of inertia Acceleration/deceleration



**■** Effective torque vs. speed 1.2 High torque 1.0 0.8 Standard 0.6 Effective 0.4 0.2 Speed: ω (°/s)

TS-S2S

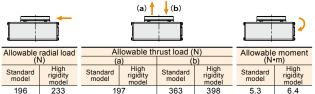
TS-SHS

Controller Operation method

I/O point trace /

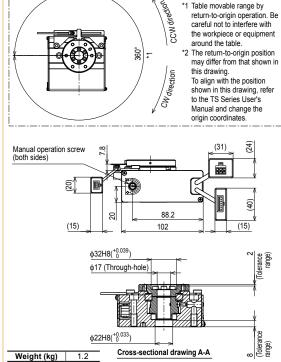
Remote command

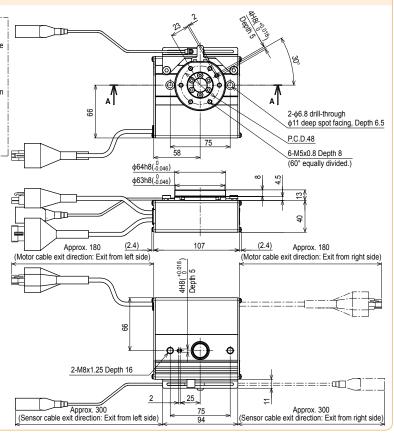
# Allowable load



Note. When purchasing the product, set the controller acceleration while carefully checking the "Moment of inertia vs. Acceleration/Deceleration" and "Effective torque vs. Speed" graphs For details, please refer to the TRANSERVO Series User's Manual.

#### RF03-SN Sensor specification - Standard model





Note 1. This drawing is output under the conditions below

Standard

