

## Capacitive 6-axis force sensor

(Rated loads: Fx, Fy, Fz: 200N Mx, My, Mz: 4Nm)



WEF-6A200-4-RCD

### Model

WEF-6A200-4-RCD

## Outline

Dyn Pick is a capacitive force sensor that can detect force components in three directions and moment components in three directions on 6 axes (Fx, Fy, Fz, Mx, My, and Mz) simultaneously. Assuming various applications, this WEF-6A series has a waterproof and dustproof structure (IP65) as a standard. Also, this force sensor can be used easily by anyone, incorporating WACOH-TECH's original stopper mechanism as a measure against overload and amplifier box, which would be indispensable for conventional strain gauge type force sensors.

This 6-axis force sensor with greatly improved reliability is suitable for diverse processes, such as force control of industrial robots, pressing force control, grinding, deburring, and assembly work.

## Use

- Force control of industrial robots, precision fitting, deburring, pressing force inspection, grinding work, etc.
- Operating portions of assistive devices, machining control of machine tools, etc.

## Feature

IP65 as a standard

Simple structure  
and low cost

No external module  
or amplifier required

Correction by built-in  
32-bit microcomputer

Measures against overload  
by WACOH-TECH's original  
stopper mechanism

CE-mark compliant

## Spec

		Type			
		WEF-6A200-4-RCD			
		MIN	TYP	MAX	Unit
Rated loads	Fx,Fy,Fz	-	±200	-	N
	Mx,My,Mz	-	±4	-	Nm
Linearity		-	-	3	%FS
Hysteresis		-	-	3	%FS
Cross-axis sensitivity		-5	-	+5	%FS
Zero-point temperature characteristics		-0.2	-	+0.2	%FS/°C
Output form		RS422			
Outer dimensions		φ 80×H32.5			mm
Current consumption		280mA or less (5V) 80mA or less (24V)			
Weight		380			g
Dustproof and waterproof function		IP65			Ingress Protection code

