

Capacitive 6-axis force sensor

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

(Rated loads : Fx,Fy,Fz:500N Mx,My,Mz:10Nm)

Model

WEF-6A200-4-RCD-B

WEF-6A500-10-RCD-B



WEF-6A200-4-RCD-B

Outline

200N type Model: WEF-6A 200-4-RCD-B is a 6 axis force sensor with rated loads Fx, Fy, Fz: 200N Mx, My, Mz: 4Nm.

500N type Model: WEF - 6 A 500 - 10 - RCD - B is a 6 - axis force sensor with rated loads Fx, Fy, Fz: 500 N Mx, My, Mz: 10 Nm.

As the advantage of the shape surface, connectors are vertically large in the case without connector case, there was a possibility of breakage, but by providing a connector case like RCD - B, the connector comes out in the sensor circumferential direction We have taken measures against damage with things. Since the installation and communication specifications are identical to the WEF-6A200-4 and WEF-6A500-10 which we have been using up to now, replacement can be easily done.

In addition, it was possible to attach a USB conversion cable or attach a DA conversion box because it enabled power supply of 5V to 24V.

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-B				WEF-6A500-10-RCD-B			
		MIN	TYP	MAX	Unit	MIN	TYP	MAX	Unit
Rated loads	Fx,Fy,Fz	-	±200	-	N	-	±500	-	N
	Mx,My,Mz	-	±4	-	Nm	-	±10	-	Nm

	MIN	TYP	MAX	Unit
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



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