

Dyn Pick WEF-6A series is a force sensor that can detect forces (Fx, Fy, Fz, Mx, My, and Mz) in six directions simultaneously.

The simple principle and structure realize low cost, high reliability and high durability.

Since a waterproof and dustproof structure (IP code 65) has been adopted, the 6-axis force sensor is suitable for various uses, such as force control of industrial robots, assembly and grinding processes, deburring, and operating devices.

In addition, the sensor connector shape can be selected according to application.



Capacitive 6Axis Force Sensor

WEF-6A200-4-RCD

DynPick®

Applications

Force control of industrial robots
Deburring and grinding work of industrial robots
Machining control of machine tools
Operating components of skill assistant devices, etc.

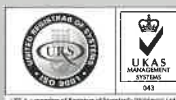
Features

Simple principle and structure
IP65-compliant (waterproof and dustproof)
No external module required due to built-in microcomputer
Overload protection incorporated (WACOH-TECH's original stopper mechanism)
CE-mark compliant

SPEC. (WEF-6A200-4-RCD)

	Specifications (Typ)	Remarks
Power supply voltage	5V DC - 24V DC	—
Rated load	Fx, y, z: 200N / Mx, y, z: 4Nm	—
Output form	RS422	—
Current consumption	Max. 280mA	Varies according to power supply voltage
Operating temperature range	0 - 50°C	No condensation
Temperature characteristics	0.2%FS/°C	—
Linearity	3%FS or less	—
Hysteresis	3%FS or less	—
Cross-axis sensitivity	5%FS or less	—
Outer dimensions	φ80 × H32.5mm	—
IP code	IP65	—
Compliant with the EMC Directive	Emission: EN61000-6-4 (industrial environment) Immunity: EN61000-6-2 (industrial environment)	—

*Specifications are provisional and may be subject to change without future notice.



(Contact)
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Capacitive 6Axis Force Sensor

WEF-6A200-4-RCD-B

DynPick®

Applications

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Deburring and grinding work of industrial robots
Machining control of machine tools
Operating components of skill assistant devices, etc.

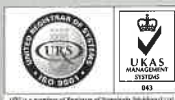
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SPEC. (WEF-6A200-4-RCD-B)

	Specifications (Typ)	Remarks
Power supply voltage	5V DC - 24V DC	—
Rated load	Fx, y, z: 200N / Mx, y, z: 4Nm	—
Output form	RS422	—
Current consumption	Max. 280mA	Varies according to power supply voltage
Operating temperature range	0 - 50°C	No condensation
Temperature characteristics	0.2%FS/°C	—
Linearity	3%FS or less	—
Hysteresis	3%FS or less	—
Cross-axis sensitivity	5%FS or less	—
Outer dimensions	φ 80 × H32.5mm	Except the connector case
IP code	IP65	—
Compliant with the EMC Directive	Emission: EN61000-6-4 (industrial environment) Immunity: EN61000-6-2 (industrial environment)	—

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Dyn Pick WEF-6A200-20-RCD-B is a force sensor that can detect forces (Fx, Fy, Fz, Mx, My, and Mz) in six directions simultaneously.

While maintaining durability, reliability and performance of the conventional WEF-6A series, by rethinking the internal structure and increasing the rated load of Fx, Fy and Fz to 200N and that of Mx, My and Mz to 20Nm, the rated load ratio of translational force to moment is now 10:1.

This improvement has expanded the range of adoption of the 6-axis force sensor more than ever as the moment of the sensor is hardly exceeded even if compact industrial robots run at full power, and as in processes where it would conventionally be unadoptable due to constraints on the rated load of moment.



Capacitive 6Axis Force Sensor

WEF-6A200-20-RCD-B

DynPick®

Applications

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Machining control of machine tools
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Features

Simple principle and structure
IP65-compliant (waterproof and dustproof)
No external module required due to built-in microcomputer
Overload protection incorporated
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CE-mark compliant

SPEC. (WEF-6A200-20-RCD-B)

	Specifications (Typ)	Remarks
Power supply voltage	5V DC - 24V DC	—
Rated load	Fx, y, z: 200N / Mx, y, z: 20Nm	—
Output form	RS422	—
Current consumption	Max. 280mA	Varies according to power supply voltage
Operating temperature range	0 - 50°C	No condensation
Temperature characteristics	0.2%FS/°C	—
Linearity	3%FS or less	—
Hysteresis	3%FS or less	—
Cross-axis sensitivity	5%FS or less	—
Outer dimensions	φ90 × H32.5mm	Except the connector case
IP code	IP65	—

Compliant with the EMC Directive

Emission: EN61000-6-4 (industrial environment)
Immunity: EN61000-6-2 (industrial environment)

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Capacitive 6Axis Force Sensor

WEF-6A500-10-RCD-B

DynPick®

Applications

Force control of industrial robots
Deburring and grinding work of industrial robots
Machining control of machine tools
Operating components of skill assistant devices, etc.

Features

Simple principle and structure
IP65-compliant (waterproof and dustproof)
No external module required due to built-in microcomputer
Overload protection incorporated (WACOH-TECH's original stopper mechanism)
CE-mark compliant

SPEC. (WEF-6A500-10-RCD-B)

	Specifications (Typ)	Remarks
Power supply voltage	5V DC - 24V DC	—
Rated load	Fx, y, z: 500N / Mx, y, z: 10Nm	—
Output form	RS422	—
Current consumption	Max. 280mA	Varies according to power supply voltage
Operating temperature range	0 - 50°C	No condensation
Temperature characteristics	0.2%FS/°C	—
Linearity	3%FS or less	—
Hysteresis	3%FS or less	—
Cross-axis sensitivity	5%FS or less	—
Outer dimensions	φ 80 × H32.5mm	Except the connector case
IP code	IP65	—
Compliant with the EMC Directive	Emission: EN61000-6-4 (industrial environment) Immunity: EN61000-6-2 (industrial environment)	—

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Capacitive 6Axis Force Sensor

WEF-6A1000-30-RCD-B

DynPick®

Applications

Force control of industrial robots
Deburring and grinding work of industrial robots
Machining control of machine tools
Operating components of skill assistant devices, etc.

Features

Simple principle and structure
IP65-compliant (waterproof and dustproof)
No external module required due to built-in microcomputer
Overload protection incorporated (WACOH-TECH's original stopper mechanism)
CE-mark compliant

SPEC. (WEF-6A1000-30-RCD-B)

	Specifications (Typ)	Remarks
Power supply voltage	5V DC ~ 24V DC	—
Rated load	Fx, y, z: 1000N / Mx, y, z: 30Nm	—
Output form	RS422	—
Current consumption	Max. 280mA	Varies according to power supply voltage
Operating temperature range	0 ~ 50°C	No condensation
Temperature characteristics	0.2%FS/°C	—
Linearity	3%FS or less	—
Hysteresis	3%FS or less	—
Cross-axis sensitivity	5%FS or less	—
Outer dimensions	φ90 × H40mm	Except the connector case
IP code	IP65	—
Compliant with the EMC Directive	Emission: EN61000-6-4 (industrial environment) Immunity: EN61000-6-2 (industrial environment)	—

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