

**Sensor Application List**

Industrial Sector: **IM**:Industrial Machine, **CM**:Construction Machine, **CV**:Construction Vehicle, **EV**:Electric Vehicle, **FA**:Factory Automation, **LO**:Logistics, **ME**:Medical Equipment, **PA**:Process Automation

PRODUCT		Model Nr.	Industrial Sector	Main Applications	Description			
Type	Element							
Precision Potentiometer	Contact Rotary	Wire-Wound	HP-18 10-turns	IM	Control panel, Test & Lab equipment	Applications where the shaft is coupled to a knob controlled by human interface		
		Conductive Plastic	CP-2FL CP-2FL-6	Metology	Anemoscope	Measurement/Wind direction & force		
				ME	Dental chair	Control/Chair position		
				Auto	Tire groove guage	Measurement/Tire groove depth		
				PA	Valve Positioner	Control/Valve position		
			CP-2FK(x)J CP-2FB(x)J CP-2FBxJ-6 CP-2FCB(m) CP-2FCx-6	CM	Industrial Joystick	Control/Manipulating angle		
				Industry	Electrical Microscope	Control/X-Y axis position		
				LO	Forklift	Control/Steering angle		
				PA	Valve Positioner	Control/Valve position		
				CV	Crane Vehicle	Control/Steering angle		
				CP-2FABSJ	Agriculture	Tea Plucking & Pruning Machine	Control/Hunting blade position	
		Auto	Car washing machine		Control/Washing brush position			
		PA	Hydraulic pump		Control/Throttle lever position			
		Marine	Engine Control System		Control/Throttle position			
		Agriculture	Agricultural Tractor		Control/Foot pedal angle			
		CP-2F-xxSRB-x CP-2FWP-10S Multi-turn	CM		Crane vehicle, Aerial Work Platform	Control/Boom length,safety device against overturning		
			Industry	Rotating stage	Control/Rotating stage position			
			Security	Surveillance camera	Control/Movable range			
			Care Welfare	Bathing Robot	Control/Arm stroke			
		CPP-35x CPP-45x CPP-45Bx2 CPP-45SB CPP-45RBN CPP-45BJ CPP-60	Marine	Autopilot	Control/Steering angle			
			Auto	Automobile Inspection Equipment	Measurement/Rotating angle of Steering wheel			
			CM	Crane, Aerial work platform	Control/Pivoting angle			
			ME	CT Scanning	Control/Scanning tilt			
			Rail	Electric Locomotive	Control/Speed adjusting lever			
			Energy	Wind Power	Control/Wind direction, Blade angle			
			CPP-45 Multi-turn	PA	Water Level guage	Measurement/Float position		
				IM	Box Making Machine	Control/ BOX position		
		LO		Automatic Guided Forklift	Control/Steering angle			
		IM		Injection Molding Machine	Control/Press mold stroke			
		MR Element	CP-16U	PA	Valve Positioner	Control/Valve position		
				PA	Volume Flow Instrument	Control/Flow volume		
				IM	Winding Machine	Control/Tension & Motor speed		
			CP-2UxN	Rail	Railroad Maintenance Equipment	Monitoring/Railroad positioning variation		
				IM	Material Testing Machine	Measurement/Shearing angle		
				Marine	Engine Governor	Mesurement/NoX Emission reduction		
				IM	Coil Winding Machine	Control/Tension & Motor speed		
			Non-Contact Sensor Rotary	Hall-IC	QP-2Hx	Broadcast	Broadcast Equipment	Control/Switcher angle
						IM	Wire Electrical Discharge Machine	Control/Wire tension & Motor speed
						Accounting Machine	Currency Calcurator Machine	Measurement/Thickness & weight of currency
		IM				Printing & Film Process Machine	Control/Film tension & Motor speed	
		CP-2HB			IM	Industrial Sewing Machine	Control/Pedal angle & Motor speed	
					IM	Automatic Ticket Gate system	Control/Gate opening & closing	
					PA	Hydraulic Valve Actuator	Control/Valve position	
					Care Welfare	Health Care Equipment	Control/Operationg Lever position	
					IM	Winding Machine	Control/Tension & Motor speed	
		CP-20H			Amusement	CAR Driving Simulator	Control/Lever position,Pedal angle,Steering angle	
					IM	Servo Actuator	Control/Rotary position	
					IM	Packing Machine	Control/Tension & Motor speed	
					PA	Hydro Pump system	Control/Piston operarion	
		CP-22H Multi-turn			LO	Forklift, AGV	Control/Pallet position & Steering angle	
					Care Welfare	Driver Assistance system	Brake control system	
					Marine	Leisure Boat Engine system	Control/Steering angle	
		CP-3HABS			Auto	Transmission Control system for Truck	Control/Shift gear position	
					Auto	Reefer container	Control/Refrigerator Temp.	
					LO	Forklift	Control/Lever position & Pedal angle	
					Marine	Leisure Boat Remote Control system	Control/Lever position	
		QP-3HB			LO	Forklift	Control/Lever position & Pedal angle	
					Off Road	Snowplow, Snowplow blower	Control/Lever position & Pedal angle	
					IM	Film Processing Machine	Control/Tension & Motor speed	
					CM	Wheel Loader	Control/Pedal angle	
		CP-30H			IM	Winding Machine	Control/Tension & Motor speed	
					IM	Paper Roll Machine	Control/Tension & Motor speed	
					IM	Automatic Packing Machine	Control/Tension & Motor speed	
		CP-2HA			Marine	Leisure Boat Engine system	Control/Engine speed	
					CM	Crane	Control/Boom swing	
					LO	Forklift,AGV	Control/Steering angle	
					CM	Tractor	Control/Pedal, Horizontal position	
		CP-2HK CP-2HK-xR CP-3HK-100 CP-2UKN-A			Auto	Transmission Control system for Truck	Control/Transmission position	
					Food	Food Packing Machine	Control/Tension & Motor speed	
					IM	Printing Machine	Control/Sweeper angle	
					IM	Hydraulic pump	Control/Pump operation	
		CP-45Hx CP-45Hx-5V CP-45Hx-10V CP-45Hx-A			ME	Health Testing Equipment	Control/Stroke angle	
					LO	AGV/Conveyor	Control/Steering angle	
					Marine	Engine Remote Control	Control/Engine speed	
		CP-45H Multi-turn			IM	Injection Molding Machine	Control/Cylinder stroke	
					IM	Slitter Machine	Control/Cutting width setting	
					IM	Printing Machine	Control/Tension & Motor speed	
					IM	Fastener Manufacturing Machine	Control/Tension & Motor speed	

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Type	Element						
Precision Potentiometer	Contact Linear	LP-10F LP-20F	ME	Traction Equipment	Control/Traction stroke		
			Rail	Point Machine	Control/Point stroke position		
			IM	Vending Machine	Control/Pedal angle		
			Civil Eng.	Anchor tensil testing machine	Measurement/Anchor bolt change		
		LP-FBS	IM	Offset Printing Machine	Control/Top/Bottom, Right/Left		
			IM	Polishing Machine	Measurement/Polished surface		
			Civil Eng.	Boring Machine	Control/Hydraulic Cylinder stroke		
			Civil Eng.	Shield Machine	Control/Hydraulic Cylinder stroke		
		LP-xxFP LP-30FQJ	Infra	Ground Displacement Meter	Measurement/Ground displacement		
			ME	Muscel hardness tester	Control/Measuring position		
			IM	Packing Machine	Control/Cylinder stroke		
			IM	Electrical Microscope	Control/X-Y axis position		
		LP-50F	Amusement	Amusement Robot	Control/Cylinder stroke		
			Auto	Automobile Testing Machine	Measurement/Wheel alignment		
			IM	Vending machine	Control/Material position		
			IM	Injection Molding Machine	Control/Ejector stroke		
		LP-xxFJx	Amusement	CAR Driving Simulator	Control/Pedal stroke angle		
			IM	Injection Molding Machine	Control/Mold closing, Shot capacity		
			IM	Pressing Machine	Control/Pressing stroke		
			Agriculture	Posticide Spraying Vehicle	Control/Posticide tank valve position		
		Draw Wire potentiometer CPP-45-50LS CPP-45-150LS CPP-45-200LS	Agriculture	Tractor	Control/Hydraulic Cylinder stroke		
			Amusement	Parallel link Robot	Control/Linking stroke		
			Civil Eng.	Civil Engineering Machine	Control/Position		
			IM	Manufacturing Machinery	Control/Hydraulic Cylinder stroke		
		Non-Contact Sensor Linear	Hall-IC	LP-10HA	PA	Pneumatic Needle Valve	Control/Valve position
					Amusement	CAR Driving Simulator	Control/Manual lever position
					LO	Forklift	Control/Power steering angle (EPS)
					CV	Crane, Aerial Work Platform	Control/Boom rolling angle
		Contact Inclino meter	Conductive Plastic	7450POT	Energy	Dam gate	Control/Gate position
					Passenger Boat	Car Ferry	Control/Gate position
					CV	Crane, Aerial Work Platform	Control/Boom rolling angle, Jib angle
					CV	Excavator	Control/Vehicle angle
	Non-Contact Sensor Inclonometer	Hall-IC	WR	LO	Conveyor	Control/Rolling angle	
				CV	Crane, Aerial Work Platform	Control/Boom rolling angle, Jib angle	
				CV	Excavator	Control/Vehicle angle	
			UV-3HF UV-00H	Marine	Fishing vessel	Control/Fish finder tilting	
				Care Welfare	Nursing care bed	Control/Bed position	
				Industry	Barber chair	Control/Reclining position	
				Special Vehicle	Rear loader	Control/Tail gate lifter	
			PMP-SxxHT	Civil Eng.	Leaderless Pile Driver	Control/Vertical position of pile	
				Communication	Maritime Satellite Antenna	Control/Antenna position	
				CV	Large Dump Truck	Control/Truck position, Rated load	
CV				Excavator	Control/Body position		
PMP-xxHTL			CV	Aerial Work Platform	Control/Platform position		
		Civil Eng.	Pile Driver	Control/Pile position			
		Geologic	Ground Surface Inclonometer	Measurement/Landslide, Debris flow			
		Marine	Container vessel	Control/Heel trim angle			
MEMS		ESC3000Z	Auto	Seat position testing equipment	Measurement/Seat position		
			OFF-Road	Bulldozer	Control/Body position		
			Food	Food processing machine	Control/Pressure cooker position		
			Civil Eng.	Shield Machine	Control/Pich&Roll position		
		ESC1000Z	Civil Eng.	Hole-Digging machine	Control/Drilling bucket position		
			LO	Harbor Gantry Crane	Control/Body blance		
			Robot	Robot for maintenance of Infrastructure	Control/Robot posture		
			Robot	Robots	Control/Joint angle		
Absolute Encoder		MR Element	CE36M	FA	Manufactuirng machine	Control/Position	
	Robot			Robots	Control/Joint angle		
	Magnet	Multi Pole Magnet Scales	IM	Motors	Control/Synchronization, positioning		
			Office Automation	Memory	Control/Rotary angle		
	Rotary Encoder	Inductive	IncOder (avail: Incremental)	Marine	Radar antenna	Control/Antenna position	
				Defence	Angle gage Indicator System	Control/Angle & Elevation position	
				Aerospace	Unmanned Aircraft	Control/Paddle position	
				PA	Down hall actuator	Control/Position	
				ME	Surgical Robot	Control/Joint angle	
				Security	Surveillance Camera	Control/Rotary joint, Gimbal	
			IncOder OEM (avail: Incremental)	PA	Flowmeter system	Measurement/Liquid flow level	
				FA	Robotic arms	Control/Joint angle	
				Security	Infrared camera	Control/Tilt angle	
				EV	AGV	Control/Steering angle	
				CV	Crane	Control/Joint angle	
				CV	Crane	Control/Joint angle	
Others	Ratio meter	DRM001	All	All device used potentiometer	Adjustment purpose, simple diagnosis method		
	Dial	H-22,H-46, D-12,DM-15	IM	Control panel	Various setting purpose		
	Signal Transducer Package	PA-420	Plant	Current output converter for CP-2UN	DC4-20mA output, ZERO-SPAN control		