



## E2E Next - Long Range DC 3 Wire Inductive Sensors

- Industry leading sensing distances with up to 4x the sensing range of standard models
- IO-Link is standard with DC 3-wire PNP models Multiple connection Types
- Multiple connection Types (including M8 QD, M12 QD, M12 Pig-tail QD, PVC cable and PVC Robot Cable)
- Harsh condition robustness with IP67, IP69K, and IP67G

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Barrel Size	Sensing Distance	Shielded /Unshielded	Connection Method	PNP Model	NPN Model
M8	1.5 mm	Shielded	M8 Connector (3 pins)	E2E-X1R5B1D8-M5	E2E-X1R5C18-M5
	2mm			E2E-X2B1D8-M5	E2E-X2C18-M5
	4mm			E2E-X4B1D8-M5	E2E-X4C18-M5
	1.5 mm		M12 Pigtail*	E2E-X1R5B1D8-M1TJ 0.3M	E2E-X1R5C18-M1TJ 0.3M
	2mm			E2E-X2B1D8-M1TJ 0.3M	E2E-X2C18-M1TJ 0.3M
	4mm			E2E-X4B1D8-M1TJ 0.3M	E2E-X4C18-M1TJ 0.3M
	2 mm	Unshielded	M8 Connector (3 pins)	E2E-X2MB1D8-M5	E2E-X2MC18-M5
	4mm			E2E-X4MB1D8-M5	E2E-X4MC18-M5
	8mm			E2E-X8MB1D8-M5	E2E-X8MC18-M5
	2 mm		M12 Pigtail*	E2E-X2MB1D8-M1TJ 0.3M	E2E-X2MC18-M1TJ 0.3M
	4mm			E2E-X4MB1D8-M1TJ 0.3M	E2E-X4MC18-M1TJ 0.3M
	8mm			E2E-X8MB1D8-M1TJ 0.3M	E2E-X8MC18-M1TJ 0.3M
M12	2 mm	Shielded	M12 Connector (4 pins)	E2E-X2B1D12-M1	E2E-X2C112-M1
	4mm			E2E-X4B1D12-M1	E2E-X4C112-M1
	9mm			E2E-X9B1D12-M1	E2E-X9C112-M1
	5 mm	Unshielded		E2E-X5MB1D12-M1	E2E-X5MC112-M1
	8mm			E2E-X8MB1D12-M1	E2E-X8MC112-M1
	16mm			E2E-X16MB1D12-M1	E2E-X16MC112-M1
M18	5 mm	Shielded		E2E-X5B1D18-M1	E2E-X5C118-M1
	8mm			E2E-X8B1D18-M1	E2E-X8C118-M1
	14mm			E2E-X14B1D18-M1	E2E-X14C118-M1
	10 mm	Unshielded		E2E-X10MB1D18-M1	E2E-X10MC118-M1
	16mm			E2E-X16MB1D18-M1	E2E-X16MC118-M1
	30mm			E2E-X30MB1DL18-M1	E2E-X30MC1L18-M1
M30	10 mm	Shielded	E2E-X10B1D30-M1	E2E-X10C130-M1	
	15mm		E2E-X15B1D30-M1	E2E-X15C130-M1	
	23mm		E2E-X23B1D30-M1	E2E-X23C130-M1	
	18 mm	Unshielded	E2E-X18MB1D30-M1	E2E-X18MC130-M1	
	30mm		E2E-X30MB1DL30-M1	E2E-X30MC1L30-M1	
	50mm		E2E-X50MB1DL30-M1	E2E-X50MC1L30-M1	

Note: Models shown are normally open, normally closed options are available.

\* 0.3M pre-wired with 4 pin M12 connector on the end.

Tables include representative part numbers. Please consult the product page for more details.



## E2EW - Metal Face Proximity Sensors

- Extended sensing range, models from 1x to 4x standard sensing range
- Factor 1 sensing of ferrous and non-ferrous metals
- Weld field immunity
- IP67 rating for environmental robustness
- Proprietary slag resistance coating
- IO-link configurability and output monitoring

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### DC 3-Wire Standard Metal Body

Connection	Sensing Range	Size	Sensing Distance	PNP	NPN
M12 pigtail*	4X	M12	7 mm	E2EW-X7B1T12-M1TJ 0.3M	E2EW-X7C112-M1TJ 0.3M
		M18	12 mm	E2EW-X12B1T18-M1TJ 0.3M	E2EW-X12C118-M1TJ 0.3M
		M30	22 mm	E2EW-X22B1T30-M1TJ 0.3M	E2EW-X22C130-M1TJ 0.3M
2m Cable		M12	7 mm	E2EW-X7B1T12 2M	E2EW-X7C112 2M
		M18	12 mm	E2EW-X12B1T18 2M	E2EW-X12C118 2M
		M30	22 mm	E2EW-X22B1T30 2M	E2EW-X22C130 2M

### DC 3-Wire Metal Body with Spatter Resistant Coating

Connection	Sensing Range	Size	Sensing Distance	PNP	NPN
M12 pigtail*	4X	M12	7 mm	E2EW-QX7B1T12-M1TJ 0.3M	E2EW-QX7C112-M1TJ 0.3M
		M18	12 mm	E2EW-QX12B1T18-M1TJ 0.3M	E2EW-QX12C118-M1TJ 0.3M
		M30	22 mm	E2EW-QX22B1T30-M1TJ 0.3M	E2EW-QX22C130-M1TJ 0.3M
M12 4pin		M12	7 mm	E2EW-QX7B1T12-M1	E2EW-QX7C112-M1
		M18	12 mm	E2EW-QX12B1T18-M1	E2EW-QX12C118-M1
		M30	22 mm	E2EW-QX22B1T30-M1	E2EW-QX22C130-M1
M12 Pigtail	2x	M12	3 mm	E2EW-QX3D112-M1TGJ 0.3M	—
M12 Pigtail		M18	7 mm	E2EW-QX7D118-M1TGJ 0.3M	—
M12 Pigtail		M30	12 mm	E2EW-QX12D130-M1TGJ 0.3M	—
2m Cable		M12	3 mm	E2EW-QX3D112 2M	E2EW-QX3D212 2M
2m Cable		M18	7 mm	E2EW-QX7D118 2M	E2EW-QX7D218 2M
2m Cable		M30	12 mm	E2EW-QX12D130 2M	E2EW-QX12D230 2M

### DC 2-Wire Standard Metal Body

Connection	Sensing Range	Size	Sensing Distance	PNP	NPN
M12 Pigtail	2x	M12	3 mm	E2EW-X3D112-M1TGJ 0.3M	—
M12 Pigtail		M18	7 mm	E2EW-X7D118-M1TGJ 0.3M	—
M12 Pigtail		M30	12 mm	E2EW-X12D130-M1TGJ 0.3M	—
2m Cable		M12	3 mm	E2EW-X3D112 2M	E2EW-X3D212 2M
2m Cable		M18	7 mm	E2EW-X7D118 2M	E2EW-X7D218 2M
2m Cable		M30	12 mm	E2EW-X12D130 2M	E2EW-X12D230 2M



## E3Z - Compact Photoelectric Sensor

- General purpose photoelectric family with all common sensing modes at long range
- Minimal optical axis deviation for easy alignment
- IP67 for water resistance
- Intensive shielding for highest noise immunity (EMC)
- Multiple molding housing for high mechanical resistance


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Sensor Type	Sensor Distance	Connection	PNP Model	NPN Model
Through-beam (emitter+receiver)	10m (Red LED)	2m Cable	E3Z-T81A	E3Z-T61A
		M8 Connector (4 pins)	E3Z-T86A	E3Z-T66A
	15m (Infrared LED)	2m Cable	E3Z-T81	E3Z-T61
		M8 Connector (4 pins)	E3Z-T86	E3Z-T66
	30m (Infrared LED)	2m Cable	E3Z-T82 2M	E3Z-T62 2M
		M8 Connector (4 pins)	E3Z-T87	E3Z-T67
Retro-reflective with MSR function	0.1 to 4m (Red LED)	2m Cable	E3Z-R81	E3Z-R61
		M8 Connector (4 pins)	E3Z-R86	E3Z-R66
Diffuse-reflective	1m (Infrared LED)	2m Cable	E3Z-D82	E3Z-D62
		M8 Connector (4 pins)	E3Z-D87	E3Z-D67
Background suppression	20 to 200mm (Red LED)	2m Cable	E3Z-LS81	E3Z-LS61
		M8 Connector (4 pins)	E3Z-LS86	E3Z-LS66

### Note:

For sensors with IO-Link, refer to the catalog on the website [automation.omron.com](https://automation.omron.com)

Note: Tables include representative part numbers. Please consult the product page for more details.



## E3FA - M18 Barrel Photoelectric Sensor

- Simplicity in selection and installation
- Compact size with flush mounting option
- IP67, IP69K for wash down resistance
- Straight or right angle (E3RA) models in cylindrical M18 plastic housing
- Background suppression, Limited Distance and Transparent detection models available


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Sensor Type	Sensor Distance	Connection	PNP Model	NPN Model
Through-beam (emitter + receiver)*	20m (Red LED)	2m Cable	E3FA-TP11 2M	E3FA-TN11 2M
		M12 Connector (4 pins)	E3FA-TP21	E3FA-TN21
Retro-reflective with MSR function	0.1 to 4m (Red LED)	2m Cable	E3FA-RP11 2M	E3FA-RN11 2M
		M12 Connector (4 pins)	E3FA-RP21	E3FA-RN21
Diffuse-reflective*	100mm (Red LED)	2m Cable	E3FA-DP11 2M	E3FA-DN11 2M
		M12 Connector (4 pins)	E3FA-DP21	E3FA-DN21
	300mm (Red LED)	2m Cable	E3FA-DP12 2M	E3FA-DN12 2M
		M12 Connector (4 pins)	E3FA-DP22	E3FA-DN22
	1m (Red LED)	2m Cable	E3FA-DP13 2M	E3FA-DN13 2M
		M12 Connector (4 pins)	E3FA-DP23	E3FA-DN23
Background suppression	100mm (Red LED)	2m Cable	E3FA-LP11 2M	E3FA-LN11 2M
		M12 Connector (4 pins)	E3FA-LP21	E3FA-LN21
	200mm (Red LED)	2m Cable	E3FA-LP12 2M	E3FA-LN12 2M
		M12 Connector (4 pins)	E3FA-LP22	E3FA-LN22

\*Note for these sensing modes Infrared LED models are available.

Note: Tables include representative part numbers. Please consult the product page for more details.

## E3Z-F - M18 Barrel Mount Photoelectric Sensor

- Visible alignment spot simplifies set-up
- Popular M18 nose mounting
- Models with infrared LEDs available
- Offers various types of sensing distances



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Sensor Type	Sensor Distance	Connection	PNP Model	NPN Model
Through-beam (emitter+receiver)*	20 m	2m Cable	E3Z-FTP11 2M	E3Z-FTN11 2M
		M12 Connector (4 pins)	E3Z-FTP21	E3Z-FTN21
Retro-reflective with MSR Function	0.1 to 4m	2m Cable	E3Z-FRP11 2M	E3Z-FRN11 2M
		M12 Connector (4 pins)	E3Z-FRP21	E3Z-FRN21
Diffuse-reflective*	100 mm	2m Cable	E3Z-FDP11 2M	E3Z-FDN11 2M
		M12 Connector (4 pins)	E3Z-FDP21	E3Z-FDN21
	300 mm	2m Cable	E3Z-FDP12 2M	E3Z-FDN12 2M
		M12 Connector (4 pins)	E3Z-FDP22	E3Z-FDN22
	500 mm	2m Cable	E3Z-FDP13 2M	E3Z-FDN13 2M
		M12 Connector (4 pins)	E3Z-FDP23	E3Z-FDN23
	1 m	2m Cable	E3Z-FDP14 2M	E3Z-FDN14 2M
		M12 Connector (4 pins)	E3Z-FDP24	E3Z-FDN24

**Note:**

Reflectors for retroreflective models are sold separately under code E39-R1S

\*Note for these sensing modes Infrared LED models are available

Note: Tables include representative part numbers. Please consult the product page for more details.



## E3AS-HL - Photoelectric Sensor

- Limited effect of color or reflectivity
- Small and complex object detection
- Line and spot beam for 150mm and 500mm sensing distances
- IP69K and IP67G
- Ecolab tested and certified detergent resistance
- Advanced ease-of-use, single teach button, OLED screen
- IO-Link distance output monitoring and configuration


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Sensor Type	Sensor Distance	Beam Type	Connection	PNP Model (I/O Link)	NPN Model
CMOS laser	500 mm	Spot	Pre-wire M12 Connector	E3AS-HL500MT-M1TJ 0.3M	E3AS-HL500MN-M1TJ 0.3M
		Line		E3AS-HL500LMT-M1TJ 0.3M	E3AS-HL500LMN-M1TJ 0.3M
	150 mm	Spot		E3AS-HL150MT-M1TJ 0.3M	E3AS-HL150MN-M1TJ 0.3M
		Line		E3AS-HL150LMT-M1TJ 0.3M	E3AS-HL150LMN-M1TJ 0.3M
	500 mm	Spot	M8 4pin	E3AS-HL500MT M3	E3AS-HL500MN M3
		Line		E3AS-HL500LMT M3	E3AS-HL500LMN M3
	150 mm	Spot		E3AS-HL150MT M3	E3AS-HL150MN M3
		Line		E3AS-HL150LMT M3	E3AS-HL150LMN M3

## E3AS-F - Photoelectric Sensor

- Minimal color influence on sensing distance
- 50mm to 1500mm sensing range
- IP69K and IP67G
- Ecolab tested and certified detergent resistance
- Single teach button
- IO-Link distance output monitoring and configuration


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Sensor Type	Sensor Distance	Material	Connection	PNP Model (I/O Link)	NPN Model
Time of Flight with Background Suppression	50 - 1500 mm	Stainless Steel	Pre-wired M12 Connector	E3AS-F1500IMT-M1TJ 0.3M	E3AS-F1500IMN-M1TJ 0.3M
			M8 4pin Connector	E3AS-F1500IMT M3	E3AS-F1500IMN M3
		Plastic	Pre-wired M12 Connector	E3AS-F1500IPT- M1TJ 0.3M	E3AS-F1500IPN-M1TJ 0.3M
			M8 4pin Connector	E3AS-F1500IPT M3	E3AS-F1500IPN M3
	50 - 1000 mm	Stainless Steel	Pre-wired M12 Connector	E3AS-F1000IMT-M1TJ 0.3M	E3AS-F1000IMN-M1TJ 0.3M
			M8 4pin Connector	E3AS-F1000IMT M3	E3AS-F1000IMN M3
		Plastic	Pre-wired M12 Connector	E3AS-F1000IPT-M1TJ 0.3M	E3AS-F1000IPN-M1TJ 0.3M
			M8 4pin Connector	E3AS-F1000IPT M3	E3AS-F1000IPN M3

Note: Tables include representative part numbers. Please consult the product page for more details.



## E3AS-L - Photoelectric Sensor

- Enhanced background suppression-Reduced black/white error and differential travel
- 200mm or 80mm sensing range
- IP69K and IP67G
- Ecolab tested and certified detergent resistance
- Single teach button
- IO-Link configurability

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Sensor Type	Sensor Distance	Material	Connection	PNP Model (I/O Link)	NPN Model
Diffuse with Background Suppression	10 - 200 mm	Stainless Steel	Pre-wired M12 Connector	E3AS-L200MT-M1TJ 0.3M	E3AS-L200MN-M1TJ 0.3M
	10 - 80 mm			E3AS-L80MT-M1TJ 0.3M	E3AS-L80MN-M1TJ 0.3M
	10 - 200 mm		M8 4pin Connector	E3AS-L200MT M3	E3AS-L200MN M3
	10 - 80 mm			E3AS-L80MT M3	E3AS-L80MN M3

## E3S-DC - Color Mark Detection Sensor

- High signal to noise ratio detects subtle color differences.
- High luminance, three-element (RGB) LED light source for greater light intensity.
- Highly efficient optics technology provides high power and enables stable detection even of subtle color differences.

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Type	Sensor Distance	Connection	Output	Baud Rate (IO-Link)	Model
Diffuse - reflective (mark detection)	10 ± 3mm	M12 Connector	PNP	COM 3 (230, 4 kbps)	E3S-DCP21-IL3
			NPN	---	E3S-DCN21

Note: Tables include representative part numbers. Please consult the product page for more details.



## E3NX-FA - High Speed Digital Fiber Amplifier

- Easy teaching by Smart tuning within a few seconds
- New N-Smart technology provides significant improvement for sensing distance, minimum object detection and speed
- Easy and transparent information about sensor status by Solution Viewer and Change Finder function
- EtherCAT Communication unit for high-speed field bus connectivity


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Setting/Function	Sensor Distance	Inputs/Outputs	Connection	PNP Model	NPN Model
<a href="#">Standard Models</a>	Sensing distance up to 4m depending on fiber used	1 output	2 m	E3NX-FA41 2M	E3NX-FA11 2M
<a href="#">Advanced Models</a>		2 outputs + 1 input	2 m	E3NX-FA51 2M	E3NX-FA21 2M
<a href="#">Analog Output Models</a>		2 outputs	2 m	E3NX-FA41AN 2M	E3NX-FA11AN 2M

Note: Infrared standard models are available as well as connector options for standard, advanced, and infrared models.

## E3X-HD - Advanced Fiber Amplifier

- Simple one-button smart tuning for sensor threshold and light intensity
- Confirm settings and status easily with dual digital display
- Automatic compensation for large objects and low reflectance dark targets


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Setting / Function	Range	Connection	PNP Model	NPN Model
<a href="#">Advanced digital amplifier</a>	Up to 4m depending on fiber model	2m Cable	E3X-HD41 2M	E3X-HD11 2M
		M8 Connector	E3X-HD44	E3X-HD14

Note: Tables include representative part numbers. Please consult the product page for more details.



## E3X-NA / SD - Fiber Optic Amplifiers

- Easy adjustment with potentiometer
- Mutual interference prevention
- Enhanced water resistance types



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Setting / Function	Distance	Connection	PNP Model	NPN Model
Potentiometer and Bargraph	Depending on the fiber optic model	2m Cable	E3X-NA41	E3X-NA11
Teach Button and digital display			E3X-SD51	E3X-SD21

## E3NX-CA - Colormark Fiber Amplifier

- High signal to noise ratio makes subtle color difference detection easy
- Able to handle glossy materials
- Stable even when lots change



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Model	Sensor Distance	Connection	Inputs / Outputs	PNP Model	NPN Model
Standard Model	Sensor distance depends on selected fiber model	2m Cable	1 output	E3NX-CA41 2M	E3NX-CA11 2M
Advanced Model			2 outputs / 1 input	E3NX-CA51 2M	E3NX-CA21 2M

\*For fiber options, or models for special applications, refer to the E32 fibers catalog on the Omron website.

Note: Tables include representative part numbers. Please consult the product page for more details.



## E3ZM-V - Colormark Detection Sensor

- Compact SUS 316L colormark photoelectric sensor
- Ideal for high contrast colormark detection in a small package
- IP69K and IP67 rated for environmental robustness
- 50 us response time
- Single teach button

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Type	Sensor Distance	Connection	PNP	NPN
Diffuse - reflective (color mark detection)	12 ± 2mm	Pre-wired	E3ZM-V81 2M	E3ZM-V61 2M
		M8 Connector	E3ZM-V86	E3ZM-V66

Notes: Additional model numbers with different cable lengths, connections and options are available.  
Tables include representative part numbers. Please consult the product page for more details.



## ZW Confocal Displacement - Measurement Sensors

- Static Resolution of 0.25  $\mu\text{m}$
- EtherCAT, EtherNet/IP, EtherNet TCP/UDP, and Serial RS-232C Network communications included
- Analog and Discrete I/O for measurement and functions
- Stable measurements for any material including glass and mirror-like surfaces
- Simple programming with Sysmac Studio software
- Compact sensor heads with no electronic parts - electrical noise immune and does not generate heat


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Measuring Range	Spot Diameter	Cable Length	Controller	Sensor Head
10 ± 0.5 mm	4 μm	2 m	ZW-8000T	ZW-S8010 2M
20 ± 1 mm	7 μm	2 m		ZW-S8020 2M
30 ± 2 mm	10 μm	2 m		ZW-S8030 2M
10 ± 0.5 mm	50 μm	2 m	ZW-7000T	ZW-S7010 2M
20 ± 1 mm	70 μm	2 m		ZW-S7020 2M
30 ± 2 mm	100 μm	2 m		ZW-S7030 2M
40 ± 3 mm	120 μm	2 m		ZW-S7040 2M
10 ± 0.5 mm	9 μm	2 m	ZW-5000T	ZW-S5010 2M
20 ± 1 mm	13 μm	2 m		ZW-S5020 2M
30 ± 2 mm	18 μm	2 m		ZW-S5030 2M
Accessories				
Type		Cable Length		Sensor Head
Serial RS-232C Cable for personal computer		2m		ZW-XRS2

Notes: Pen-shaped straight and right-angle sensor heads are also available. Shorter 0.3 meter sensor cables are available along with Extension Fiber Cables (2, 5, 10, 20, and 30 meters long).

Note: Tables include representative part numbers. Please consult the product page for more details.



## ZX1 and ZX2 CMOS Laser Measurement Sensors

- Down to 1.5um resolution
- Best in class performance for accuracy and speed
- Increased measurement range
- Stable measurement for objects with any surface
- Simple configuration by one-button, Smart Tuning
- Compact size for quick mounting


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ZX1 Sensor Heads with built-in Amplifier				
Range	Resolution	Connection	PNP Model	NPN Model
50 ± 10 mm	2um	2 m Cable	ZX1-LD50A81 2M	ZX1-LD50A61 2M
100 ± 35 mm	7um		ZX1-LD100A81 2M	ZX1-LD100A61 2M
300 ± 150 mm	30um		ZX1-LD300A81 2M	ZX1-LD300A61 2M
600 ± 400 mm	80um		ZX1-LD600A81 2M	ZX1-LD600A61 2M
ZX2 Sensor Heads				
Range	Resolution	Connection	Line-Beam Model	Spot-Beam Model
50 ± 10 mm	1.5um	Amplifier Unit	ZX2-LD50L	ZX2-LD50
100 ± 35 mm	5um	Amplifier Unit	ZX2-LD100L	ZX2-LD100
ZX2 Amplifier Units				
Range	Resolution	Connection	PNP Model	NPN Model
N/A	N/A	2 m Cable	ZX2-LDA41 2M	ZX2-LDA11 2M

Note: Tables include representative part numbers. Please consult the product page for more details.



## Sensor Cordsets

- Standard PVC or PUR cordsets for a wide variety of applications
- M8 and M12 connector sizes with 3 and 4 pin configurations
- Straight, right angle, and double ended variations available
- 2m, 5m, and 10m cordset lengths are available. Alternative lengths are also available


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Material	Connector Size	No. of Pins	Length	Straight Connector	Right Angle Connector
PUR	M8	3 Pins	2 m	XS3F-M8PUR3S2M	XS3F-M8PUR3A2M
			5 m	XS3F-M8PUR3S5M	XS3F-M8PUR3A5M
			10 m	XS3F-M8PUR3S10M	XS3F-M8PUR3A10M
		4 Pins	2 m	XS3F-M8PUR4S2M	XS3F-M8PUR4A2M
			5 m	XS3F-M8PUR4S5M	XS3F-M8PUR4A5M
			10 m	XS3F-M8PUR4S10M	XS3F-M8PUR4A10M
	M12	4 Pins	2 m	XS2F-M12PUR4S2M	XS2F-M12PUR4A2M
			5 m	XS2F-M12PUR4S5M	XS2F-M12PUR4A5M
			10 m	XS2F-M12PUR4S10M	XS2F-M12PUR4A10M
PVC	M8	3 Pins	2 m	XS3F-M8PVC3S2M	XS3F-M8PVC3A2M
			5 m	XS3F-M8PVC3S5M	XS3F-M8PVC3A5M
			10 m	XS3F-M8PVC3S10M	XS3F-M8PVC3A10M
		4 Pins	2 m	XS3F-M8PVC4S2M	XS3F-M8PVC4A2M
			5 m	XS3F-M8PVC4S5M	XS3F-M8PVC4A5M
			10 m	XS3F-M8PVC4S10M	XS3F-M8PVC4A10M
	M12	3 Pins	2 m	XS2F-M12PVC3S2M	XS2F-M12PVC3A2M
			5 m	XS2F-M12PVC3S5M	XS2F-M12PVC3A5M
			10 m	XS2F-M12PVC3S10M	XS2F-M12PVC3A10M
		4 Pins	2 m	XS2F-M12PVC4S2M	XS2F-M12PVC4A2M
			5 m	XS2F-M12PVC4S5M	XS2F-M12PVC4A5M
			10 m	XS2F-M12PVC4S10M	XS2F-M12PVC4A10M

### Double-ended cordsets

Material	Connector Size	No. of Pins	Length	Straight Connector	Right Angle (Socket)/Straight (Plug)
PVC	M12	4	2 m	XS2W-D421-D81-F	XS2W-D424-D81-F
			5 m	XS2W-D421-G81-F	XS2W-D424-G81-F
			10 m	XS2W-D421-J81-F	XS2W-D424-J81-F

Note: Tables include representative part numbers. Please consult the product page for more details.



## S8VK - Complete Line Of Power Supplies

- Compact single-phase and three-phase power supplies
- Operating Temperature: -40°C to 70°C (S8VK-G and S8VK-T) and -25°C to 60°C (S8VK-C)
- 5 year warranty
- Power Boost Function: 120% for 10s (S8VK-G/T)



Product Page

Line	Power	Output Voltage	Output Current	Capacity	Model
Economy Single-Phase	100 to 240 VAC  90 to 350 VDC	24V	2.5 A	60 W	S8VK-C06024
			5 A	120 W	S8VK-C12024
			10 A	240 W	S8VK-C24024
			20 A	480 W	S8VK-C48024
General Purpose Single-phase		5V	3 A	15 W	S8VK-G01505
		12V	2.5 A	30 W	S8VK-G03012
		24V	1.3 A	30 W	S8VK-G03024
			2.5 A	60 W	S8VK-G06024
			5 A	120 W	S8VK-G12024
			10 A	240 W	S8VK-G24024
			20 A	480 W	S8VK-G48024
		48V	10 A	480 W	S8VK-G48048
Three-phase	380 to 480 VAC  450 to 600 VDC	24V	5 A	120 W	S8VK-T12024
			10 A	240 W	S8VK-T24024
			20 A	480 W	S8VK-T48024
			40 A	960 W	S8VK-T96024
Environmentally Resistant 3-Phase Power Supply with Reduced Footprint and Predictive Maintenance Features	380V to 480 VAC  450 to 600 VDC"	24VDC	10A	240W	S8VK-WB24024
		48VDC	5A		S8VK-WB24048
		24VDC	20A	480W	S8VK-WB48024
		48VDC	10A		S8VK-WB48048
		24VDC	60A	960W	S8VK-WB96024
		48VDC	30A		S8VK-WB96048

Note: Tables include representative part numbers.

Please refer to the [Component selection guide](#) for more details.

## S8VK-X - Power Supply With EtherNet / IP

- Product replacement time, output voltage, output current, and more can be monitored remotely on the Ethernet/IP network
- Product status can be checked on-site using the indication monitor
- Remote monitoring with included software tool


[Product Page](#)

[Product Video](#)

Line	Power	Output Voltage	Output Current	Capacity	Model
EtherNet/IP Communication With Display	100 to 240 VAC  90 to 350 VDC	24V	3.75 A	90 W	S8VK-X09024A-EIP
			5 A	120 W	S8VK-X12024A-EIP
			10 A	240 W	S8VK-X24024A-EIP
EtherNet/IP Communication Without Display			2.5 A	60 W	S8VK-X06024-EIP
			3.75 A	90 W	S8VK-X09024-EIP
			5 A	120 W	S8VK-X12024-EIP
			10 A	240 W	S8VK-X24024-EIP
			20 A	480 W	S8VK-X48024-EIP

## S8V-CP - Electronic Circuit Protector

- Compact design saves panel space compared to standard circuit breakers
- 3-step LED indicators for easy identification of channel status
- 4 and 8 channel models available with individual output current adjustments for various loads
- Available UL Class-2 output model


[Product Page](#)

Power	Output Voltage	Number of Outputs	Maximum Input Current	Adjustment Output Current	Model
24 VDC	24 VDC	4	40A	2 A up to 10 A	S8V-CP0424
		8	70A	2 A up to 10 A	S8V-CP0824

Note: Tables include representative part numbers.

Please refer to the [Component selection guide](#) for more details.



## H5CX-N - Digital Timer

- 15 Different timing settings
- High Precision and Excellent Performance
- Available IP66 rating with optional waterproof cover
- Time parameterization from 0.001s to 9999h

[Product Page](#)[Product Video](#)

Power	Terminal Type	Output Type	Model
12 - 24V AC/DC	Screw	Relay	H5CX-AD-N AC24/DC12-24
		Transistor	H5CX-ASD-N DC12-24/AC24
100 - 240 VAC		Relay	H5CX-A-N AC100-240

Note: Tables include representative part numbers.

Please refer to the [Component selection guide](#) for more details.



## H5CC - Digital Timer

- The H5CC is the improved version of our digital timer with added visual clarity
- 15 different timing modes
- Replacement time notification function alert the user of potential maintenance needs.
- User-friendly interface in a white LCD screen
- Status indicators integrated into front buttons.





[Product Page](#)

Power Supply	Terminal Type	Outputs	Model
100-240 VAC	Screw Terminal	Contact Output (time-limit SPDT)	H5CC-A
		Contact Output (SPDT) + Transistor Output (SPST)	H5CC-AU
	11-pin Socket		H5CC-A11
12-48 VDC / 24 VAC	Screw Terminal	Contact Output (time-limit SPDT)	H5CC-AD
		Contact Output (SPDT) + Transistor Output (SPST)	H5CC-AUD
24-240 VDC / VAC	11-pin Socket	Contact Output (time-limit SPDT)	H5CC-A11F

Note: Tables include representative part numbers. Please consult the product page for more details.



## H7CC - Digital Counter & Tachometer

- The H7CC is a new and improved version of our digital counter with an available tachometer function
- Improved LED Display makes the screen easier to read
- LED indicators built into the push buttons for visual feedback
- Preventative maintenance features alert you when the product is nearing the end of its life
- Simple and easy to use programming interface saves time

[Product Page](#)

Type	Classification	External Connections	Outputs	Power Supply Voltage	Model
H7CC-A	Preset Counter	11 Pin	Contact output (SPDT)	100 to 240 VAC	H7CC-A11
		Screw Terminals	Contact output (SPDT)	100 to 240 VAC	H7CC-A
			Contact output (SPDT)	24 VAC / 12 to 48 VDC	H7CC-AD
	Preset Counter / Tachometer	Screw Terminals	Contact output (SPST+SPDT)	100 to 240 VAC	H7CC-AW
			Contact output (SPST+SPDT)	24 VAC / 12 to 48 VDC	H7CC-AWD
H7CC-R	Tachometer	11 Pin	Contact output (SPDT)	100 to 240 VAC	H7CC-R11

Note: Tables include representative part numbers.

Please refer to the [Component selection guide](#) for more details.

Note: Tables include representative part numbers. Please consult the product page for more details.



## G2RV-ST - Slim I/O Relay

- Push-in plus Technology for easy wiring
- Lockable test switch models available for circuit troubleshooting
- LED/mechanical flag available for checking operation
- Slim 6mm width – space saving
- Gold plate contact models available for micro loads

[Product Page](#)

Coil Voltage	Contact Rating	Contact Form	Screw Terminal Model	Push-in Terminal Model	Individual Relay for Replacement
24 VDC	6 A	SPDT	G2RV-ST700 DC24	G2RV-ST500 DC24	G2RV-1-S-G DC21
110 VAC			G2RV-ST700 AC110	G2RV-ST500 AC110	G2RV-1-S-G DC48
230VAC			G2RV-ST700 AC230	G2RV-ST500 AC230	

### Accessories

Description	Number of Poles	Red	Blue	Yellow
<a href="#">Jumper bar</a>	20	PYDN-6.2T-200R	PYDN-6.2T-200S	PYDN-6.2T-200Y

## G3NA - Hockey Puck Style Solid State Relay

- Compact Dimensions
- Built-in varistor
- LED operation indicator
- 5-90A output current

[Product Page](#)

Isolation	Zero Cross Function	Indicator	Application Output Load	Rated Voltage Input	Model
Phototriac	Yes	Yes	10A at 24 to 240 VAC	5 to 24 VDC	G3NA-210B-UTU DC5-24
Phototriac	Yes	Yes	20 A at 24 to 240 VAC	5 to 24 VDC	G3NA-220B-UTU DC5-24
Phototriac	Yes	Yes	25 A at 24 to 240 VAC	5 to 24 VDC	G3NA-225B-UTU DC5-24

Note: Tables include representative part numbers.

Please refer to the [Component selection guide](#) for more details.



## G2R-S - Slim Mechanical Relay

- Lockable test switch models available for circuit troubleshooting
- LED/mechanical flag available for checking operation
- Available DIN-rail mount relay sockets
- Slim 16mm design with socket


[Product Page](#)

Coil Voltage	Contact Rating	Contact Form	Relay Socket Model	Relay Model
12 VDC	10 A	SPDT	P2RFZ-05E/P2RF-05-PU	G2R-1-S DC12(S)
24 VDC				G2R-1-S DC24(S)
120 VAC				G2R-1-SN AC120(S)
240 VAC				G2R-1-SN AC240(S)
12 VDC	5 A	DPDT	P2RFZ-08E/P2RF-08-PU	G2R-2-S DC12(S)
24 VDC				G2R-2-S DC24(S)
120 VAC				G2R-2-S AC120(S)
240 VAC				G2R-2-S AC240(S)

## MY-GS-R - General Purpose Ice Cube Relay

- DPDT type 10 A / 4PDT type 5 A
- Vibration resistance and reduced wiring time with push in plus technology
- Mechanical operation indicator
- Industry standard global certifications UL, CSA, IEC (VDE certification), and CQC
- Lockable test switch models available for circuit troubleshooting
- Low power switching (1 mA at 5 VDC) / Bifurcated 4PDT (0.1 mA at 1 VDC)


[Product Page](#)

Coil Voltage	Contact Rating	Contact Form	Relay Socket Model	Relay Model
24VDC	10A	DPDT	PYFZ-08-E/PYF-08-PU	MY2N-GS-R DC24
120VAC				MY2N-GS-R AC110/120
220VAC				MY2N-GS-R AC220/240
24VDC	6A	4PDT	PYFZ-14-E/PYF-14-PU	MY4N-GS-R DC24
120VAC				MY4N-GS-R AC110/120
220VAC				MY4N-GS-R AC220/240

Note: Tables include representative part numbers.

Please refer to the [Component selection guide](#) for more details.



## E5CC/E5DC - General-Purpose Temperature Controllers

- High contrast white PV display
- High-speed sampling at 50ms
- Available auxiliary outputs, event inputs, a transfer output, and a remote SP input
- Short body with a depth of 60mm
- Available IP66 rating with optional waterproof cover
- Additional DIN sizes available 1/4, 1/8, 1/16, 1/32

[Product Page](#)

Dimensions	Type of Input	Power	Type of Output	Auxiliary Output	Standard Model	
48 x 48 x 60 mm	Thermocouple, PT100, Analogical	100 -240 VAC	Relay	SPST-NO contacts (Relay Output)	E5CC-RX3A5M-000	
			Voltage		E5CC-QX3A5M-000	
			Current		E5CC-CX3A5M-000	
24 VAC / VDC		Relay	E5CC-RX3D5M-000			
		Voltage	E5CC-QX3D5M-000			
		Current	E5CC-CX3D5M-000			
22.5mm For DIN rail mount			100-240 VAC		Relay	E5DC-RX2ASM-000
					Current	E5DC-CX2ASM-000
			24VAC / VDC		Relay	E5DC-RX2DSM-000
	Voltage			E5DC-QX2DSM-002		

## Limit & Basic Switches

- Limit switches and basic switches are electromechanical switches used to detect and limit motion within industrial environments
- Available in a wide variety of actuator arms, lever arms and plungers
- Multiple switch designs for use in a variety of applications and environments
- Additional limit and basic switch configurations available on Omron website

[Product Page](#)

Type	Series	Features	Applications	Models
General Limit Switches	D4A	Wide temperature range from -40°C to +100°C (standard type) for use in heavy duty applications	Machine tool, material handling, palletizer, injection molding, packaging equipment, automotive hoist/lift machinery	D4A-1101-N
	WL-N	Two-circuit switch for reliable switching		D4A-2918-N
	D4C	Slim body and designed for easy side-by-side mounting (Plunger type: 6 switches maximum)	Machine tool, material handling, palletizer, packaging equipment, mobile lift equipment, robotics	WL2-LD
	ZE	Long service life and high breaking capacity	Conveyor controls, packaging equipment, material handling, printing machinery, waste & recycling compacting machinery	WL2-LD-M1J
Basic Switches	Z	A large switching capacity of 15A and high repeat accuracy	Elevators, mobile lift equipment, forklift, injection molding, utility switchgear, controls for doors/gates/valves, foot switches	D4C-1602
	X	Direct current switch that incorporates a permanent magnet in the contact mechanism to deflect arcs and increases switch life	Mobile lift equipment, forklift, injection molding, utility switchgear, controls for doors/gates/valves, foot switches	D4C-1601
	DZ	Double pole double throw basic switch for two independent circuit control. Ideal for switching the circuits operating on two different voltages, and controlling two circuits.		ZE-NJ-2S
	TZ	High temperature switch that maintains stable operation at an ambient temperature of 400°C	Industrial boilers, power plant, incinerators, industrial heaters	ZE-N-2S
				Z-15GQ-B
				Z-15GD-B
				X-10GW22-B
				X-10GW-B
				DZ-10GW22-1B
				DZ-10GW-1B
				TZ-1GV
				TZ-1GV22

Note: Tables include representative part numbers.

Please refer to the [Component selection guide](#) for more details.



## K6CM - Motor Condition Monitor

- 24/7 remote monitoring of critical 3-phase induction motors
- Can monitor motor vibration, temperature, current, and insulation resistance depending on model
- EtherNet/IP and Modbus TCP communication
- Included monitoring software tool can monitor up to 10 motors at one time


[Product Page](#)

Motor failure mode	Description	Power	Controller model	Sensor Model
<a href="#">Bearing Wear</a>	Monitors motor vibration/temperature with sensor	24 VAC/DC	K6CM-VBMD-EIP	K6CM-VBS1
<a href="#">Overload Condition</a>	Monitors motor current and degradation level using a CT sensor	24 VAC/DC	K6CM-CI2MD-EIP	K6CM-CICB025 K6CM-CICB100 K6CM-CICB200 K6CM-CICB400
<a href="#">Insulation breakdown</a>	Monitors motor insulation and current leakage with sensor	24 VAC/DC	K6CM-ISMD-EIP	K6CM-ISZBI52

## K7DD - Adv. AC Motor Condition Monitor

- Comprehensive AC Motor Condition analysis with programable alerts
- Reduce or eliminate unplanned downtime through failure prediction
- Automates the measurement and condition analysis of AC motors with status indicators
- Transistor Alarm Outputs, RS-485 communication
- Especially useful for AC motors that change speed or direction often


[Product Page](#)

Unit	Supply Voltage	Model
<a href="#">Controller Unit</a>	100-240 VAC	K7DD- PQMA
	24 VDC	K7DD- PQMD

Rated Primary-Side Current	Model	UL Compliant Models
<a href="#">5 A</a>	K6CM-CICB005	K6CM-CICB005-C
<a href="#">25 A</a>	K6CM-CICB025	K6CM-CICB025-C
<a href="#">100 A</a>	K6CM-CICB100	K6CM-CICB100-C
<a href="#">200 A</a>	K6CM-CICB200	K6CM-CICB200-C
<a href="#">400 A</a>	K6CM-CICB400	K6CM-CICB400-C

Note: Tables include representative part numbers.

Please refer to the [Component selection guide](#) for more details.

K6PM - Thermal Condition Monitor

- 24/7 remote thermal monitoring of equipment using infrared thermal image sensors
- Thermal Imaging Sensor that detects temperatures 32-392°F (0-200°C)
- EtherNet/IP and Modbus TCP communication
- Included monitoring software tool can monitor up to 155 sensors at one time



[Product Page](#)

Power	Controller	Thermal image Sensor
24 VAC/DC	K6PM-THMD-EIP	K6PM-THS3232

K7TM –  
Heater Condition Monitor

- Three-phase and single-phase relays for voltage and current monitoring
- Complete line for monitoring sequence and phase drop, asymmetry, under or over control
- Supply voltages: 24 VAC/DC, 100 to 240 VAC, 380-480 VAC
- Special models for monitoring temperature and liquid level



[Product Page](#)

Unit	Supply Voltage	Model
Controller Unit	100-240 VAC	K7TM-A2MA
	24 VAC/VDC	K7TM-A2MD
CT Clamp		
Rated Primary Side Current	Model	UL Compliant Models
5 A	K6CM-CICB005	K6CM-CICB005-C
25 A	K6CM-CICB025	K6CM-CICB025-C
100 A	K6CM-CICB100	K6CM-CICB100-C
200 A	K6CM-CICB200	K6CM-CICB200-C
400 A	K6CM-CICB400	K6CM-CICB400-C
600 A	K6CM-CICB600	-

Note: Tables include representative part numbers.  
Please refer to the [Component selection guide](#) for more details.





## K8AK / K8DS – Monitoring Relays

- Three-phase and single-phase relays for voltage and current monitoring
- Complete line for monitoring sequence and phase drop, asymmetry, under or over control
- Supply voltages: 24 VAC/DC, 100 to 240 VAC, 380-480 VAC
- Special models for monitoring temperature and liquid level


[Product Page](#)

Phase	Dimensions	Monitoring Type	Input	Output Contact Form	Model
Single-Phase	K8AK - 22.5 x 90 x 100 [mm]  K8DS: 17.5 x 80 x 69 [mm]	Over Current	24 VAC/DC or 100 to 240 VAC	SPDT	K8AK-AS2 24VAC/DC
		Overvoltage and Undervoltage	24 VAC/DC or 100 to 240 VAC	SPDT	K8AK-VW2 24VAC/DC
Three-Phase		Phase Drop and Phase Sequence	200-480 VAC	DPDT SPDT	K8AK-PH1 200/500VAC
					K8DS-PH1 200/480VAC
		Phase Drop, Phase Sequence, Overvoltage and Undervoltage	200-240 VAC	(2) SPDT	K8AK-PM1 200/240VAC
380-480 VAC	K8AK-PM2 380/480VAC				

## K7GE – Insulation Resistance Monitoring

- Reliable, Safe and Accurate Automatic Insulation Resistance Measurements
- Modular Product units for multiple motor insulation resistance monitoring
- 50 VDC measurement voltage
- Monitor up to 8 motors with additional probes
- Transistor Alarm Outputs, RS-485 communication
- Especially useful for servo/motors operating in harsh environments


[Product Page](#)

Unit	Supply Voltage	Model
Controller Unit	100-240 VAC	K7GE-MGMA
	24 VAC/VDC	K7GE-MGMD
Probe Unit	—	K7GE-MG1



## A2W - Wireless Pushbutton

- 8 pushbuttons can be assigned to one receiver unit
- Each receiver has 8 transistor outputs (one-shot operation)
- LED signal strength indicator on each button
- Battery-less pushbutton (uses self-generating power)


 [Product Page](#)

Type	Button type	Frequency (MHz)	Area	Button color	Flange color	Model
Pushbutton	Mushroom	922.5	United States or Canada	Green	Black	A2W-TC-WC1 US1GB
	Full guard			Red	Black	A2W-TC-WC1 US2RB
				Green	Black	A2W-TC-WC1 US2GB
				Yellow	Black	A2W-TC-WC1 US2YB
				Blue	Black	A2W-TC-WC1 US2AB
				Black	Black	A2W-TC-WC1 US2BB

Type	Frequency (MHz)	Area	Output configuration	Model
Receiver	922.5	United States or Canada	PNP	A2W-RCP-WC1 US

Note: This product is a wireless device that conforms to the radio regulations of United States or Canada. It cannot be used outside of United States or Canada.

Accessories (sold separately)	Model	Remarks
High-sensitivity magnetic-base antenna	A2W-AT2.5-WC1	Frequencies: all frequencies supported, cable length 2.5 m Degree of protection: IP65

Note: Tables include representative part numbers.

Please refer to the [Component selection guide](#) for more details.

Note: Tables include representative part numbers.

Please refer to the [Component selection guide](#) for more details.



## A22N / M22N - Push Buttons And Indicators

- Complete line with Ø 22mm assemblies
- Various colors and models with plastic or metallic bezels
- Color coded contact blocks to prevent assembly errors
- Easy installation and IP66 degree of protection


[Product Page](#)

Type	Bezel material	Color	Contact	LED Voltage	Model
<a href="#">A22NN - Push Button</a>	(1) Bezel Material B – Plastic R – Metallic	(2) Color B – Red G – Green Y – Yellow W – White A – Blue B – Black	1 NO	(3) LED Voltage N – No lighting A – 6 VAC/VDC B – 12 VAC/VDC C – 24VAC/VDC D – 100/120 VAC/VDC E – 200/240 VAC/VDC	A22NN-RNM-NGA-G100-NN
			1 NO		A22NN-RNM-NBA-G100-NN
<a href="#">A22NL - Lighted Push Button</a>			1 NO		A22NL-BGM-TGA-G100-GC
			1 NO		A22NL-RPM-TRA-G100-RC
			---		M22N-BC-TYA-YC
<a href="#">M22N - Indicators</a>			---		M22N-BN-TGA-GC
			2 positions - 1NO		A22NS-2RM-NBA-G100-NN
<a href="#">A22NS - Selector</a>			3 positions - 2NO		A22NS-3RM-NBA-G101-NN
			2 positions - 1NO	----	A22NK-2RM-01AA-G100
<a href="#">A22NK - Selector with Key</a>		----	2 positions - 1NO		A22NK-2RL-01BA-G100

Item	Model
<a href="#">Contact block 1NO</a>	A22NZ-S-G1A
<a href="#">Contact block 1NC</a>	A22NZ-S-G1B

Note: Tables include representative part numbers. Please consult the product page for more details.



## CP1H – MicroPLC for 4 Axis Position Control and High Speed Control

- High-speed counters with differential phases and pulse outputs for 4 axes control. Easily handles multi-axis control with a single unit.
- Up to two Ethernet ports and two serial ports when selecting the appropriate optional communications boards
- Up to 40 Built in I/O points with Analog I/O built in on XA CPU units
- Over 30 different expansion units for I/O, temperature sensing and communications


[Product Page](#)

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Type	Input Points	Output Points	Expandable up to*	Program Capacity	Data Memory Capacity	Power Supply	Output Method	Built-In Functions			Model
								E	I/C	P	
CP1H-X with pulse outputs for 4 axes	24	16	320 points	20K steps	32K words	85 to 264 VAC	Relay output	4	8	--	CP1H-X40DR-A
						20.4 to 26.4 VDC	Transistor output (sink type)	4	8	4	CP1H-X40DT-D
Transistor output (source type)							4	8	4	CP1H-X40DT1-D	
CP1H-XA with built-in analog I/O (4 analog inputs/2 analog outputs; 1/12,000 resolution)						85 to 264 VAC	Relay output	4	8	--	CP1H-XA40DR-A
CP1H-Y with 1-MHz pulse I/O						12	8	300 points	20.4 to 26.4 VDC	Transistor output (sink type)	4
	Transistor output (source type)	4	8	4	CP1H-XA40DT1-D						
	Transistor output (sink type)	4**	6	4**	CP1H-Y20DT-D						

Note: Built-in functions: E = Encoder inputs; I/C = Interrupts/counters; P = Pulse outputs

\*CP1H CPU series can be expanded with CP-series Expansion Units and CJ1 Special I/O Units.

\*\* Encoder inputs: 2x 1 MHz + 2x 100 kHz; Pulse outputs: 2x 1 MHz + 2x 100 kHz.

Note: Tables include representative part numbers. Please consult the product page for more details.



## CP2E - Micro PLC for Data Collection and Machine-To-Machine Communication

- Up to five communications channels: dual Ethernet and up to three serial ports for data collection, machine-to-machine or IIoT
- Built-in I/O of either 14, 20, 30, 40 or 60 points with up to 180 I/O points when using expansion modules
- Up to four axes of motion control for precise machine movement

[Product Page](#)[Training Services](#)

### CP2E-N/Network Models

I/O points	Specifications								
	Power Supply	Inputs	Outputs	Output Type	Communications	Axis	Option Boards	Expansion Units	Model
14	100 to 240 VAC 24 VDC	8	6	Relay	1 Ethernet port Up to 2 serial ports	2	1		CP2E-N14DR-A
				Transistor (sinking)					CP2E-N14DT-A
				Relay					CP2E-N14DR-D
				Transistor (sinking)					CP2E-N14DT-D
				Transistor (sourcing)					CP2E-N14DT1-D
20	100 to 240 VAC 24 VDC	12	8	Relay	1 Ethernet port Up to 2 serial ports	2	1		CP2E-N20DR-A
				Transistor (sinking)					CP2E-N20DT-A
				Relay					CP2E-N20DR-D
				Transistor (sinking)					CP2E-N20DT-D
				Transistor (sourcing)					CP2E-N20DT1-D
30	100 to 240 VAC 24 VDC	18	12	Relay	2 Ethernet ports Up to 3 serial ports	4	2	3	CP2E-N30DR-A
				Transistor (sinking)					CP2E-N30DT-A
				Relay					CP2E-N30DR-D
				Transistor (sinking)					CP2E-N30DT-D
				Transistor (sourcing)					CP2E-N30DT1-D
40	100 to 240 VAC 24 VDC	24	16	Relay	2 Ethernet ports Up to 3 serial ports	4	2	3	CP2E-N40DR-A
				Transistor (sinking)					CP2E-N40DT-A
				Relay					CP2E-N40DR-D
				Transistor (sinking)					CP2E-N40DT-D
				Transistor (sourcing)					CP2E-N40DT1-D
60	100 to 240 VAC 24 VDC	36	24	Relay	2 Ethernet ports Up to 3 serial ports	4	2	3	CP2E-N60DR-A
				Transistor (sinking)					CP2E-N60DT-A
				Relay					CP2E-N60DR-D
				Transistor (sinking)					CP2E-N60DT-D
				Transistor (sourcing)					CP2E-N60DT1-D

Note: Tables include representative part numbers. Please consult the product page for more details.



## CP2E - Micro PLC (continued)

- Function block library for expedited program development
- Analog, high speed counters, pulse outputs, linear interpolation and PWM output facilitates a wide range of applications


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### CP2E-S/Standard Models

I/O points	Specifications								
	Power Supply	Inputs	Outputs	Output Type	Communications	Axis	Option Boards	Expansion Units	Model
30	100 to 240 VAC	18	12	Relay	1 x RS-232C port 1 x RS-485 port	2	----	3	CP2E-S30DR-A
	24 VDC			Transistor (sinking)					CP2E-S30DT-D
				Transistor (sourcing)					CP2E-S30DT1-D
40	100 to 240 VAC	24	16	Relay	1 x RS-232C port 1 x RS-485 port	2	----	3	CP2E-S40DR-A
	24 VDC			Transistor (sinking)					CP2E-S40DT-D
				Transistor (sourcing)					CP2E-S40DT1-D
60	100 to 240 VAC	36	24	Relay	1 x RS-232C port 1 x RS-485 port	2	----	3	CP2E-S60DR-A
	24 VDC			Transistor (sinking)					CP2E-S60DT-D
				Transistor (sourcing)					CP2E-S60DT1-D

### CP2E-E/Essential Models

I/O points	Specifications								
	Power Supply	Inputs	Outputs	Output Type	Communications	Axis	Option Boards	Expansion Units	Model
14	100 to 240 VAC	8	6	Relay	1 x RS-232C port	----	----	3	CP2E-E14DR-A
20		12	8	Relay	1 x RS-232C port	----	----	3	CP2E-E20DR-A
30		18	12	Relay	1 x RS-232C port	----	----	3	CP2E-E30DR-A
40		24	16	Relay	1 x RS-232C port	----	----	3	CP2E-E40DR-A
60		36	24	Relay	1 x RS-232C port	----	----	3	CP2E-E60DR-A

Note: Tables include representative part numbers. Please consult the product page for more details.



## CP1L - Micro PLC

- Compact PLC for up to 180 I/O points
- Programming via USB port or Ethernet port based on model
- Optional boards for Analog, Serial and Ethernet communication on select models
- Supports up to 4 encoders and 2 pulse train outputs (transistor models only)


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Family	Power Supply	Amount of I/Os in the CPU			Expansion Units	Communication Ports	Option Boards	Output Type	Model
		Digital		Analog					
		Inputs	Outputs	Inputs					
CP1L-EM	24 VDC	24	16	2 (0-10V)	3	Ethernet FINS	2	Transistor (sourcing)	CP1L-EM40DT1-D
	24 VDC	24	16	2 (0-10V)	3	Ethernet FINS	2	Relay	CP1L-EM40DR-D
	24 VDC	18	12	2 (0-10V)	3	Ethernet FINS	2	Transistor (sourcing)	CP1L-EM30DT1-D
	24 VDC	18	12	2 (0-10V)	3	Ethernet FINS	2	Relay	CP1L-EM30DR-D
CP1L-EL	24 VDC	12	8	2 (0-10V)	1	Ethernet FINS	1	Transistor (sourcing)	CP1L-EL20DT1-D
	24 VDC	12	8	2 (0-10V)	1	Ethernet FINS	1	Relay	CP1L-EL20DR-D
CP1L-M	100 to 240 VAC	24	16	No	3	USB	2	Relay	CP1L-M40DR-A
	24 VDC	24	16	No	3	USB	2	Relay	CP1L-M40DR-D
	24 VDC	24	16	No	3	USB	2	Transistor (sourcing)	CP1L-M40DT1-D
	100 to 240 VAC	18	12	No	3	USB	2	Relay	CP1L-M30DR-A
	24 VDC	18	12	No	3	USB	2	Relay	CP1L-M30DR-D
	24 VDC	18	12	No	3	USB	2	Transistor (sourcing)	CP1L-M30DT1-D
CP1L-L	24 VDC	12	8	No	1	USB	1	Transistor (sourcing)	CP1L-L20DT1-D
	24 VDC	12	8	No	1	USB	1	Transistor (sinking)	CP1L-L20DT-D
	100 to 240 VAC	12	8	No	1	USB	1	Relay	CP1L-L20DR-A
	24 VDC	12	8	No	1	USB	1	Relay	CP1L-L20DR-D
	24 VDC	8	6	No	1	USB	1	Transistor (sinking)	CP1L-L14DT-D
	100 to 240 VAC	8	6	No	1	USB	1	Relay	CP1L-L14DR-A

## Expansion Modules and Accessories

Family	Communication Ports	Model
Digital Expansions	8 Inputs	CP1W-8ED
	8 Relay Outputs	CP1W-8ER
	16 Relay Outputs	CP1W-16ER
	12 Inputs and 8 PNP Transistor Outputs	CP1W-20EDT1
	24 Inputs and 16 Relay Outputs	CP1W-40EDR
Analog Expansions Resolution of 12000 points	4 Inputs (0 to 5V, 1 to 5V, 0 to 10V, -10 to + 10V, 0 to 20mA and 4 to 20mA)	CP1W-AD042
	4 Outputs (1 to 5V, 0 to 10V, -10 to + 10V, 0 to 20mA and 4 to 20mA)	CP1W-DA042
	2 Inputs (0 to 5V, 1 to 5V, 0 to 10V, -10 to + 10V, 0 to 20mA and 4 to 20mA)	CP1W-MAD42
	1 Output (1 to 5V, 0 to 10V, -10 to + 10V, 0 to 20mA and 4 to 20mA)	
Optional Communication Adapters	RS-232C Serial Port (15m Distance)	CP1W-CIF01
	RS-422A/485 Serial Port (50m Distance)	CP1W-CIF11
	RS-422A/485 Serial Port (500m Distance)	CP1W-CIF12
Software	Programming Software with 1 license	CXONE-AL01D-V4

Note: Tables include representative part numbers. Please consult the product page for more details.



## NX1P - Machine Automation Controllers

- Compact entry model with integrated motion and machine control. Connectivity to safety and vision systems
- Up to 4 axes of coordinated motion control plus 4 axes point to point control
- Expandable I/O using up to 8 NX series I/O cards on local bus
- Built in EtherCAT and EtherNet/IP ports
- Connect up to 16 EtherCAT Slaves
- Sysmac Studio IDE for flexible, scalable programming


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Built-In Digital I/O		Specifications	Number of Coordinated axes*	Number of point-to-point axes**	Total Axes	Option Boards	Model
Digital							
Inputs	Outputs						
14	10	1.5MB of programming	0	4	4	1 Slot	NX1P2-9024-DT1
24	16	memory, min cycle time	2		6	2 Slots	NX1P2-1040-DT1
24	16	up to 2ms	4		8		NX1P2-1140-DT1

\* Coordinated Axes Include:

- Point to Point Positioning
- Synchronized Motion (Gearing/Camming)
- Multi-Axes Coordinated Motion (Circular/Linear Interpolation)
- Axes grouping

\*\*Point to Point axes Include:

- Only Point to Point Positioning
- No Synchronized Motion
- No Multi-Axes Coordinated Motion
- No Axes Grouping

Note: PNP transistor Output options shown. For NPN options, go to [automation.omron.com](http://automation.omron.com)

### Option Boards

Type	Description	Communication Protocol	Model
Serial Communication	1 x RS-232C port Transmission Distance: 15 m Connector type: Spring terminal (9 terminals)	Host link, Modbus-RTU Master and no-protocol	NX1W-CIF01
	1 RS-422A/485 Transmission Distance: 50 m Connector type: Spring terminal (5 terminals)		NX1W-CIF11
	1 RS-422A/485 port (isolated) Transmission Distance: 500 m Connector type: Spring terminal (5 terminals)		NX1W-CIF12
Analog Inputs and Outputs	2 x Analog inputs Voltage input: 0 to 10 V (Resolution: 1/4,000) Input current: 0 to 20 mA (1/2,000) Connector type: Spring terminal (5 terminals)		NX1W-ADB21
	2 x Analog inputs / 2 x Analog output Voltage input: 0 to 10 V (Resolution: 1/4,000) Input current: 0 to 20 mA (1/2,000) Voltage output: 0 to 10 V (Resolution: 1/4,000) Connector Type: Spring terminal (8 terminals)		NX1W-MAB221

Note: The expansion cards of the NX1P machine controller line are the same as the NX Series I/O cards.

For information on virtual axes, refer to the catalog on the website [automation.omron.com](http://automation.omron.com)

### Software and Switches

Type	Description	Model
Software	Sysmac Studio IDE Lite Version 1 License	SYSMAC-SE201L
Hub	Hub EtherCAT with 3 Ports	GX-JC03
	Hub EtherCAT with 3 Ports	GX-JC06
	Hub EtherNet/IP with 3 Ports	W451-03B
	Hub EtherNet/IP with 5 Ports	W451-05B

Note: Tables include representative part numbers. Please consult the product page for more details.





## NX102 - Machine Automation Controller

- Compact controller integrates production line, safety systems, and IT systems
- EtherCAT (1 port) and EtherNet/IP (2 ports) communication on the same CPU
- OPC UA server functionality
- Up to 8 axes of coordinated motion plus 4 axes of point-to-point control
- Embedded SQL Client Option
- Connect up to 64 EtherCAT slaves
- Expandable IO using up to 32 NX Series I/O cards on local bus
- Sysmac Studio IDE for flexible, scalable programming


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Family	Specifications	Number of Coordinated axes *	Number of point-to-point axes **	Total Axes	SQL	Model
NX102	5 MB of programming memory, Min. cycle up to 1ms	0	4	4	No	NX102-9000
					Yes	NX102-9020
		2		6	No	NX102-1000
					Yes	NX102-1020
		4		8	No	NX102-1100
					Yes	NX102-1120
		8		12	No	NX102-1200
					Yes	NX102-1220

Note: The NX-END02 terminal cover is included with the NX102. The HMC-SD291 memory card is supplied with the NX102-\_\_ 20. The battery is not mounted when the product is shipped. Refer to the datasheet for details.

For information on virtual axes, refer to the catalog on Omron website [automation.omron.com](http://automation.omron.com)

### \* Coordinated Axes Include:

- Point to Point Positioning
- Synchronized Motion (Gearing/Camming)
- Multi-Axes Coordinated Motion (Circular/Linear Interpolation)
- Axes grouping

### \*\*Point to Point axes Include:

- Only Point to Point Positioning
- No Synchronized Motion
- No Multi-Axes Coordinated Motion
- No Axes Grouping

## Software and Switches

Type	Description	Model
Software	Sysmac Studio IDE Lite Version 1 License	SYSMAC-SE201L
Hub	Hub EtherCAT with 3 Ports	GX-JC03
	Hub EtherCAT with 3 Ports	GX-JC06
	Hub EtherNet/IP with 3 Ports	W451-03B
	Hub EtherNet/IP with 5 Ports	W451-05B

Note: Tables include representative part numbers. Please consult the product page for more details.



## NX502 - Machine Automation Controller

- EtherCAT® 250µs EtherCAT® Refresh Speed
- Up To 254 CIP Safety Connections with: NX-SL5700 and four NX-EIP201 units
- 256 EtherCAT® Nodes
- 512 tag sets per EIP Unit
- OPC UA and SQL as standard while also leveraging Sysmac Studio MQTT function blocks
- Up to 64 axis of motion control
- 80 MB of program capacity
- Plug and Play Compatible with:
  - Omron's complete line of NX I/O
  - Omron's integrated software environment Sysmac Studio
  - Omron Vision, Motion, Robotics, and Safety Components
- Leverage the strength of multiple industrial protocols including: EtherCAT®, IO Link, EtherNET I/P, CIP Safety


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Family	Specifications	I/O Capacity	Coordinated Axes <sup>1</sup>	Total Axes	OPC UA	SQL	Model
NX502	5 MB of programming memory, Min. cycle up to 0.25ms	1024 Points local	16	16	Yes	Yes	NX502-1300
			32	32	Yes	Yes	NX502-1400
			64	64	Yes	Yes	NX502-1500

Note: The NX-END02 terminal cover is included with the NX502.

The battery is not mounted when the product is shipped. Refer to the datasheet for details.

For information on virtual axes, refer to the catalog on Omron website [automation.omron.com](http://automation.omron.com)

### 1. Coordinated Axes Include:

- Point to Point Positioning
- Synchronized Motion (Gearing/Camming)
- Multi-Axes Coordinated Motion (Circular/Linear Interpolation)
- Axes grouping

## Software and Network Card

Type	Description	Model
Software	Sysmac Studio Standard Edition, One Seat	SYSMAC-SE201L
Network Card	NX502 Ethernet I/P Module	NX-EIP201



## NJ - Machine Automation Controllers

- One integrated controller designed to meet extreme requirements in terms of logic sequence, motion control speed, accuracy, and system size
- EtherCAT and Ethernet IP communication on the same CPU
- Ability to manage logic, motion, safety and vision tasks
- Embedded SQL Client Option
- Expandable I/O Using up to 10 CJ Expansion cards
- Sysmac Studio IDE for flexible, scalable programming



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Family	Specifications	Number of axes	OPC UA	SQL	Model
NJ1	64 EtherCAT slaves, 3 MB of programming memory, Min. cycle time: 1ms	0	No	No	NJ101-9000
			No	Yes	NJ101-9020
		2	No	No	NJ101-1000
			No	Yes	NJ101-1020
NJ3	192 EtherCAT slaves, 5 MB of programming memory, Min. cycle time: 1ms	4	No	No	NJ301-1100
		8	No	No	NJ301-1200
NJ5	192 EtherCAT slaves, 20 MB of programming memory, Min. cycle time: 0.5 ms	16	Yes	No	NJ501-1300
			No	Yes	NJ501-1320

Note: For information on virtual axes, refer to the catalog on the website [automation.omron.com](http://automation.omron.com)

### Power Supplies

Power Supplies	Capacity	RUN Indicator	Model
100 to 240VAC	30W	NO Relay	NJ-PA3001
24 VDC			NJ-PD3001

### Software and Switches

Type	Description	Model
Software	Sysmac Studio IDE 1 License	SYSMAC-SE201L
Hub	Hub EtherCAT with 3 Ports	GX-JC03
	Hub EtherCAT with 6 Ports	GX-JC06
	Hub EtherNet/IP with 3 Ports	W4S1-03B
	Hub EtherNet/IP with 5 Ports	W4S1-05B

Note: Tables include representative part numbers. Please consult the product page for more details.



## NX7 -

## Machine Automation Controllers

- Highest performance Sysmac CPU, designed to address the most demanding industrial control and motion applications, laying the infrastructure for Big Data support
- EtherCAT (1 port) and EtherNet/IP (2 ports) communication on the same CPU
- Dual-core Motion
- 128 or 256 Axes of Motion
- Embedded SQL Client Option
- Sysmac Studio IDE for flexible, scalable programming

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Family	Specification	Number of Coordinated Axes	SQL	Model Number
NX7	80 MB of programming memory, minimum cycle time 0.125 ms	128	YES	NX701-1620
Power Supplies	Capacity	RUN Indicator	Model	
100 to 240VAC	90W	NO Relay	NX-PA9001	
24 VDC	70W		NX-PD7001	
Software and Switches	Description		Model	
Software	Sysmac Studio IDE Lite Version 1 License		SYSMAC-SE201L	
Hub	Hub EitherCAT with 3 Ports		GX-JC03	
	Hub EitherCAT with 3 Ports		GX-JC06	
	Hub EitherNet/IP with 3 Ports		W451-03B	
	Hub EitherNet/IP with 5 Ports			

## NX-TC -

## Multi-Loop Temperature Controller

- 2 or 4 loop models
- PID control
- Ethernet/IP&EtherCAT with PLC/Coupler
- Voltage out and Current Out models
- Ability to specify variable to output
- Heater Burnout detection

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Product Name	Number of channels	Input Type	Output	Output Capacity	CT Input Capacity	Control Type	Conversion Time	I/O Refreshing Method	Model
Temperature Control Unit 2Ch Type	2 Ch	Multi-input (Thermocouple & Resistance Thermometer)	Voltage (for SSR control)	2 points	2 points	Standard Control	50 m sec	Free-Run refreshing	NX-TC2405
				4 points	None	Heating & Cooling Control			NX-TC2407
Temperature Control Unity 4Ch Type	4 Ch			4 points	4 points	Standard Control			NX-TC3405
				4 points	None	Standard Control			NX-TC3406
				8 points	None	Heating & Cooling Control			NX-TC3407

Note: Tables include representative part numbers. Please consult the product page for more details.



## NX - Remote I/O

- Wide variety of high density remote I/O Modules
- Ideal match with Sysmac Machine automation controllers
- EtherCAT and EtherNet/IP coupler options
- Platform Agnostic. Easy connectivity to 3rd party systems
- Removable wiring terminals for easy system assembly and testing

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Type	Description	Model
Digital I/O	8 Digital Inputs (NPN)	NX-ID4342
	8 Digital Inputs (PNP)	NX-ID4442
	16 Digital Inputs (NPN)	NX-ID5342
	16 Digital Inputs (PNP)	NX-ID5442
	32 Digital Input (NPN)	NX-ID6342
	32 Digital Input (PNP)	NX-ID6442
	8 Relay NO Outputs	NX-OC4633
	8 Digital Outputs (NPN)	NX-OD4121
	8 Digital Outputs (PNP)	NX-OD4256
	16 digital outputs (NPN)	NX-OD5121
	16 digital outputs (PNP)	NX-OD5256
	32 Digital Output (PNP)	NX-OD6121
Analog I/O	4 4-20 mA Analog Inputs	NX-AD3203
	4 4-20mA Analog Outputs	NX-DA3203
	4 Analog Inputs -10 to +10 V	NX-AD3603
	4 Analog Outputs -10 to +10 V	NX-DA3603
Temperature control	4 Thermocouple Inputs	NX-TS3101
	4 RTD Inputs	NX-TS3201
Weighing	1 Input for Load Cell	NX-RS1201
Position control	1 Line-Driver Pulsed Output	NX-PG0122
	1 Incremental Encoder Input	NX-EC0122
Serial Communication	1 RS232C Interface	NX-CIF101
	1 RS485/422A Interface	NX-CIF105
IIoT	IO-Link Master Interface for 4 IO-Link Devices	NX-ILM400
Accessories	Additional Supply for I/Os (4A)	NX-PF0630
	Additional Supply for I/Os (10A)	NX-PF0730
	Additional Source for Communication Bus	NX-PD1000

COUPLERS Network	Communications Cycle	Current Consumption	Maximim I/O power supply current	Model
EtherCAT	250 to 4,000 $\mu$ s	1.45 W or lower	4A	NX-ECC201
	125 to 10,000 $\mu$ s	1.25 W or lower	10A	NX-ECC202
EtherNet/IP	-	1.50W or lower		NX-ECC203
				NX-EIC202
SLAVE UNIT Network	IO Data Update	Refresh Mode	Model	
EtherCAT	1.5 ms	Free Run	NX-ECT101	

Note: Tables include representative part numbers. Please consult the product page for more details.

## NXR - IP67 EthernetIP Remote IO-Link Master

- Fully configurable ports with up to 8 IO-Link connections, or 2 digital I/O per port (16 Total)
- 2 A max output load current per I/O point
- Rotary Switches for IP address setting
- LED status and output indication
- Connect up to 8 IO-Link hubs per master, totalling 128 digital I/O per EthernetIP Connection
- Autoconfigure IO-Link devices by 1 click in the software, or by 1 message from the controller



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Unit	IO Capacity	Max Output Load Curent	Model
IO-Link Master	8 IO-Link ports (or up to 16 Digital I/O)	2 A per point	NXR-ILM08C-EIT
IO-Link Hub	16 Digital Inputs	N/A	NXR-ID166C-IL2
	16 Digital Inputs/Outputs	0.5 A per point	NXR-CD166C-IL2

### Accessories<sup>1</sup>

Unit	Description	Model
Y Cable Splitter	For connecting two devices to one port	XS5R-D426-1



1. Refer to the datasheet for recommended power and communication cables

Note: Tables include representative part numbers. Please consult the product page for more details.



## NX-HTC - Multi-Loop Temperature Controller

- 4 loop and 8 loop models
- 40% Footprint Reduction vs. NX-TC
- .01 °C Temperature Resolution when used with K-type, PT100 thermocouple
- Waveform Digitalization Function Monitors 16 different process features
- Disturbance Suppression Technology
- For use with PLC or IPC

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Model	Number of Channels	Input type	Output	Output Capacity	CT Input Capacity	Control type	Safety Standard
NX-HTC4505	8ch	Full Multi-input (Thermocouple, resistance thermometer and analog input)	Voltage output (for driving SSR)	8 points	8 points	Standard control	UC1, CE, RCM, KC, EAC
NX-HTC3510	4ch		Heating output: Voltage output (for driving SSR)	4 points	4 points	Heating and Cooling control	
			Cooling output: Linear current output				

## NX-V680C - RFID Units

- Data reads/writes are easily performed by simply setting parameters in the machine automation controller memory area
- Simple device configuration, compared to serial communication, coupled with high-speed data processing
- Communication programs can be easily built using the ladder program function blocks "Sysmac Library RFID Communications Library (SYSMAC-XR019)"

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Model	Number of Antennas/Amplifiers	Antenna/Amplifier	Operating Frequency	RFID Standard
NX-V680C1	1	V680 Series	13.56 MHz	ISO 15693
NX-V680C2	2			

Note: Tables include representative part numbers. Please consult the product page for more details.

## Sysmac Studio- Integrated Design Environment

- Configuration, programming, monitoring in a single interface
- Logic, motion and drives, safety, visualization, sensing, IoT in one project
- Built in Simulator
- One time license fee


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License Type	Part Number	# of Users
Sysmac Studio Standard Edition	SYSMAC-SE201L	1
	SYSMAC-SE203L	3
	SYSMAC-SE210L	10
	SYSMAC-SE230L	30
	SYSMAC-SE250L	50
	SYSMAC-SE2XXL	Site
Sysmac Studio Lite Edition	SYSMAC-LE201L	1
	SYSMAC-LE203L	3
	SYSMAC-LE210L	10
Upgrade from Lite to Standard	SYSMAC-LU501L	1
	SYSMAC-LE203L	3
	SYSMAC-LE210L	10
Sysmac Studio Vision Edition	SYSMAC-VE001L	1
Sysmac Studio Measurement Edit	SYSMAC-ME001L	1
Sysmac Studio NX/I-O Edition	SYSMAC-NE001L	1
Sysmac Studio Drive Edition	SYSMAC-DE001L	1
Sysmac Studio Safety Edition	SYSMAC-FE001L	1

OS	CPU		RAM	Display
Windows 7 (32-bit) Windows 8 (32-bit) Windows 8.1 (32-bit) Windows 10 (32-bit or 64-bit edition)	Minimum <sup>1</sup>	IBM AT or compatible with Intel® Celeron® processor 540 (1.8 Ghz)	2 GB	XGA 1,024 x 768, 16 million colors
	Recommended <sup>2,3</sup>	IBM AT or compatible with Intel® Core™ i5 M520 processor (2.4 GHz) or equivalent	4 GB min.	WXGA 1,280 x 800x 16 million colors

1. If you create a user program with a memory size that exceeds 20 MB, use the 64-bit edition of the operating system and 8 GB or more of RAM.

2. If the user program is large, we recommend that you use a 64-bit IBM AT or compatible with an Intel® Core™ i7 processor or better and 8 GB or more of RAM.

3. If you use the Robot Additional Option and execute Vision and Robot integrated simulations, use a 64-bit IBM AT or compatible with an Intel® Core™ i5 processor or better and 8 GB or more of RAM.

Note: Tables include representative part numbers. Please consult the product page for more details.





## Sysmac Studio- Integrated Design Environment

- Configuration, programming, monitoring in a single interface
- Logic, motion and drives, safety, visualization, sensing, IoT in one project
- Built in Simulator
- One time license fee

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		Sysmac Studio Standard	Sysmac Studio Lite	Sysmac Studio Vision	Sysmac Studio Measurement	Symac Studio Drive	Sysmac Studio Safety	Sysmac Studio NX
Logic	NX1P2	•	•					
	NX102	•	•					
	NJ1	•	•					
	NJ3	•						
	NJ5	•						
	NX7	•						
HMI	NA5	•	•					
I/O	NX I/O EtherCAT Coupler	•	•					
	NX I/O EtherNet/IP Coupler	•	•					•
Vision	FH	•	•	•				
	FHV7	•	•	•				
	FQM	•	•	•				
Safety	NX-SL3	•	•				•	•
	NX-SL5/CSG	•	•				•	
Motion	1S	•	•			•		
	G5	•	•			•		
Measurement	ZW	•	•		•			

Note: Tables include representative part numbers. Please consult the product page for more details.



## NB - Basic Graphic HMI

- 65K Color TFT display with LED backlight
- Data Logging/Trending, Recipes, Alarms, Remote web viewing
- Graphics Library and Animation
- Free NB Designer programming software
- Preferred for Omron CP controllers



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Size	Description		Model
	Communication Port	Resolution	
3.5"	RS232C/RS422	320 × 234	NB3Q-TW00B-V1
5.6"	RS232C/RS422, Ethernet		NB5Q-TW01B-V1
5.6"	RS232C/RS422		NB5Q-TW00B-V1
7"	RS232C/RS422, Ethernet	800 × 480	NB7W-TW01B-V1
7"	RS232C/RS422		NB7W-TW00B-V1
10"	RS232C/RS422, Ethernet		NB10W-TW01B-V1

Note: For more information, refer to the catalog on the website [automation.omron.com](http://automation.omron.com)

Note: Tables include representative part numbers. Please consult the product page for more details.



## NA - Advanced High Resolution Graphic Display

- Wide screen high resolution display with 16M colors
- Multimedia including video, Word, Excel and PDF viewers
- Sysmac Studio provides the integrated development environment
- Preferred for NJ/NX controllers

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Size	Description		Model
	Communication Port	Resolution	
7"	2 Ethernet, USB, RS232	800 x 480	NA5-7W001B-V1
9"			NA5-9W001B-V1
12.1"		1280 x 800	NA5-12W101B-V1
15.4"			NA5-15W101B-V1

Note: Part numbers are for black bezel. Silver bezel available.

Note: Tables include representative part numbers. Please consult the product page for more details.

## Soft NA - Software to Emulate the NA Advanced Graphic Display on an Industrial PC

- Sysmac Studio provides the integrated development environment.
- Design or Re -Use applications from the NA Graphic display on your choice of Industrial PC. Omron NY Series of IPC preferred.
- Run Soft-NA and other applications such as Enterprise Resource Planning or others, on an IPC.
- Windows 10 OS based and preferred for NJ/NX controllers.
- Preferred for NJ/NX controllers



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Product Name	Specifications	Number of licenses	Media	Model
Soft-NA	The Soft-NA is software that displays information on FA manufacturing sites while providing safety, reliability, and maintainability as an industrial display on which operations can be preformed as necessary. The Soft-NA runs on the following OS: Windows 10 Pro Version 1903 or later 64 bit	- (Media only)	DVD	NA-RTSM
		1 license	USB dongle	NA-RTLDD01
		3 licenses		NA-RTLDD03
		10 licenses		NA-RTLDD10

Note: Tables include representative part numbers. Please consult the product page for more details.



## NY - Industrial PC

- No internal cables eliminates faults, maximizes uptime
- Unique simplified thermal design cuts downtime
- Powerful Intel® Core™ technology for optimum performance
- Options for models with no moving parts - increasing reliability
- Box and Panel mount versions


[Product Page](#)

Family	Operational System	CPU	RAM Memory	Storage	Type	Model
NYB	Windows 10 IoT Enterprise LTSB 64bit	Intel Xeon E3-1515M v5	8GB	128GB SSD	Box PC	NYB1E-313K1
		Intel Core i7-7820EQ				NYB27-314K1
		Intel Core i5-7300U				NYB35-313K1
		Intel Core i5-7300U		NYB35-313K1		
		Intel Celeron 2980U		NYB2C-313K1		
		Intel Core ATOM E3940		NYB2A-30450		
NYP		Intel Core i7-7820EQ		128GB SSD	Monitor Panel 12", 15", 19"	NYP27-314K1-15WC1000
		Intel Core i5-7300U		64GB SSD		NYP35-30350-19WC1000
		Intel Core i5-7300U				NYP35-31391-15WC1000
		Intel Celeron 2980U		128GB SSD		NYP2C-313K2-15WC1000
		Intel Core ATOM E3940				NYP2A-30460-19WC1000

Note: The NYB family does not come with an industrial monitor.

## NYM - Industrial Monitor

- Multitouch projected capacitive touchscreen
- False touch detection (palm, water)
- Operator can wear gloves
- Optional NY Monitor Link interface for connectivity up to 100m
- Custom logo option


[Product Page](#)

Item	Size	Resolution	Interface	Model
Industrial Monitor	18.5"	1,280 x 800	DVI-D	NYM19W-C1000
	15.4"			NYM15W-C1000
	12.1"			NYM12W-C1000
	18.5"		NY Monitor Link	NYM19W-C1060
	15.4"			NYM15W-C1060
	12.1"			NYM12W-C1060

Note: Tables include representative part numbers. Please consult the product page for more details.



## NY5 - IPC Machine Controller

- Models available with AI function and with NC function
- Real Time Operating System runs independently of the Windows OS
- Program the machine control with Sysmac Studio using ladder, ST, SFC.
- Machine control program portable to modular NJ controller
- Available in box and panel versions

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Operational System	CPU	Number of axes	RAM Memory	Storage	Type	Model
Windows Embedded Standard 7 64 bit	Intel Core i7 4700EQ	64	8 GB	64GB SSD	15.4" Monitor Panel	NY532-1500-112213910
		32				NY532-1400-112213910
		16				NY532-1300-112213910

Note: For models with NC function or with Artificial Intelligence function, refer to the catalog on the website [automation.omron.com](http://automation.omron.com)

## Omron AVEVA Edge

- Omron AVEVA™ Edge offers an Integrated Development Environment (IDE) with the Omron driver set that allows you to design once and deploy anywhere for most Omron control platforms.
- Omron AVEVA™ Edge SCADA – The full Windows based runtime offers all the tools you need for advanced SCADA applications
- Omron AVEVA™ Edge HMI – AVEVA Edge for embedded systems such as Windows Embedded operating systems. The small footprint makes AVEVA Edge HMI ideal for embedded and edge machines

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Development or Development and Runtime	Runtime
<a href="#">Omron Aveva Edge Unlimited Tags</a>	
<a href="#">Omron Aveva Edge 512K Tags</a>	Omron Aveva Edge 512K Tags
<a href="#">Omron Aveva Edge 64K Tags</a>	Omron Aveva Edge 64K Tags
<a href="#">Omron Aveva Edge 32K Tags</a>	Omron Aveva Edge 32K Tags
<a href="#">Omron Aveva Edge 16K Tags</a>	Omron Aveva Edge 16K Tags
<a href="#">Omron Aveva Edge 4K Tags</a>	Omron Aveva Edge 4K Tags
<a href="#">Omron Aveva Edge 1.5K Tags</a>	Omron Aveva Edge 1.5K Tags
<a href="#">Omron Aveva Edge 300 Tags</a>	Omron Aveva Edge 300 Tags
<a href="#">Omron Aveva Edge 150 Tags</a>	Omron Aveva Edge 150 Tags

Note: Tables include representative part numbers. Please consult the product page for more details.