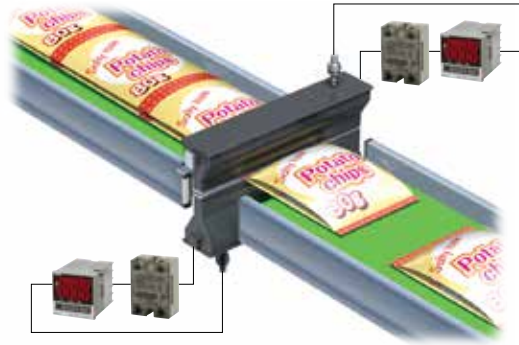


Temperature Control in Seal Area



Temperature Sensor (General purpose Models)



E52 A Great Variety of High-precision Temperature Sensors.

Specifications

Description :
Sheathed platinum resistance thermometer,
Sheathed thermocouple

Temperature Controllers

E5CC/E5EC

Easy-to-Read Large White PV Display
• E5CC (48x48mm) / E5EC (48x96mm)



Specifications

Power supply voltage : 100 to 240 VAC
24 VAC / 24 VDC
Sensor Input : Thermocouple
Platinum resistance thermometer
Infrared temperature sensor
Analog input : Current input 4 to 20 mA or 0 to 20 mA
Voltage input 1 to 5 V, 0 to 5 V, or 0 to 10 V
Control output : Relay output / Voltage output
(for driving SSR)



- The white LCD display is easy to read in the subdued lighting conditions found in most control rooms.
- PV Display Height
 - E5CC 15.2 mm
 - E5EC 18 mm



Solid State Relays

G3NE

- Compact, Low-cost, SSR switching 5 to 20A.



Specifications

Rated input Voltage : 5, 12, 24 VDC
Rated load Voltage : 100 to 240 VAC
Load Current : with radiator 0.1 to 20A
without radiator 0.1 to 5A
Isolation method : Phototriac coupler
Zero-cross function : Yes



G3NA

- Wide variety of applicable loads from 5 to 90 A.



Specifications

Power Supply Voltage : 5 to 24VDC
100 to 240VAC
Rated load voltage : 24 to 240 VAC
200 to 480 VAC
400 to 600 VAC
(G3NA-D210B 5 to 200VDC)
Rated current : (With radiator)
~Max Value : ~5A/~10A/~20A/~40A
~50A/~75A/~90A
Isolation method : Phototriac coupler or photocoupler
Zero-cross function : Yes



G3PE

- SSR integrated with radiator in a compact, slim model for switching heaters.



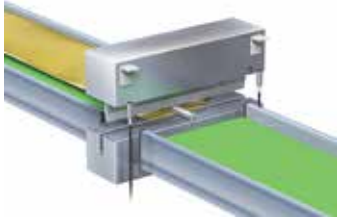
Specifications

Power Supply Voltage : 12 to 24 VDC
Rated load voltage : 100 to 240 VAC/200 to 480 VAC
Rated current : ~Max Value : ~15A/~25A/~35A/~45A
Isolation method : Phototriac coupler
Zero-cross function : Yes/No



Detect Workpiece Engagement

Inductive Proximity Sensors



E2B

Premium series for long distance detection

- Wide variety of extended range cylindrical proximity sensors.



Specifications

| | |
|-----------------------------|-----------------------|
| Size | : M8/M12/M18/M30 |
| Sensing distance | : 4mm/8mm/16mm/30mm |
| Power supply voltage | : DC12-24V |
| Control output | : DC3wire, PNP/NPN |
| Connection | : Pre-wire, Connector |



E2E

Premium series for tough environments

- For harsh, oily environments.



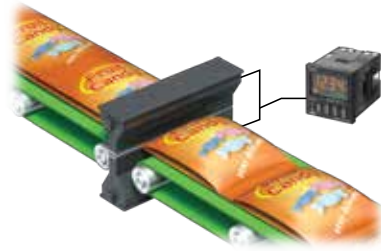
Specifications

| | |
|-----------------------------|--|
| Size | : M8/M12/M18/M30, others |
| Sensing distance | : DC2wire 2mm/3mm/7mm/10mm DC3wire 1.5mm/2mm/5mm/10mm |
| Power supply voltage | : DC12-24V |
| Control output | : DC3Wire/DC2wire, PNP/NPN |
| Connection | : Pre-wire, Connector |



Control of Heat Seal Time

Timers/Counters



H5CX

- High Visibility, 12mm-high color display.



Specifications

Multifunction timer
Timer and twin timer in one unit
Time Range: 0.001s to 9999H
Short body with depth of only 59 mm
(for 24-VAC / 12 to 24-VDC Models with Screw Terminals).
The present value display characters can be switched between red, green, and orange.
15 output mode



H3CR

- Time range and selectable output mode.



Specifications

Time range : Multiple ranges between 0.05 s to 300 h
Power supply voltage : 220VAC/110VAC/24VDC
Output : Time-limit DPDT or time-limit SPDT + instantaneous SPDT



Other models
Twin Timer : H3CR-F
Star-delta Timer : H3CR-G
Power OFF-Delay Timer : H3CR-H
Multi Function : H3CR-A

Counting in Fixed-size Cutting

Counters



H7CX

- High Visibility, 12mm-high color display.



Specifications

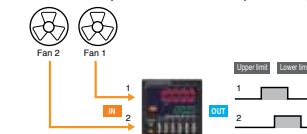
Preset counter, tachometer, and 4 other functions in one Unit.
Counting speed: 30 Hz or 5 kHz
Increment, decrement, or increment/decrement operation
Multifunction Preset counter, tachometer and 4 other functions in one unit
Counting speed: 30Hz or 5 kHz
Increment, decrement, or increment/decrement operation
The present value display characters can be switched between red, green, and orange.



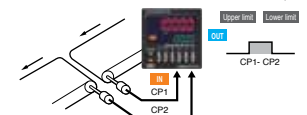
H7CX

Complete Tachometer Functionality

- 1) One-input measurement
Measurement operation with one input.
Select the HI-LO, AREA, HI-HI, or LO-LO output mode.
- 2) Independent Measurement for Two Inputs.
Measurement operation with two independent inputs.



- 3) Differential Input for Two Inputs.
Measuring the difference between two inputs (CP1 - CP2).



- 4) Absolute Ratio for Two Inputs.
Measuring the ratio between two inputs (CP1/CP2).



Automation Software

Software Suites

Sysmac Studio

- True Integrated Development Environment and suite for the Sysmac NJ platform, including configuration and programming for logic, motion, vision, safety, robotics, enterprise, and HMI.



Specifications

| | |
|--------------------|---|
| Part # | : SYSMAC-STUDIO-1USER 1-User License and DVD (other license levels available) |
| OS | : Windows: XP, Vista, 7, 8 |
| Controllers | : Sysmac NJ Controller, and associated products |

CX-One

- The CX-One software suite allows users to build, configure and program PLCs, HMIs, Temperature Controllers, Motion & Networks.



Specifications

| | |
|--------------------|--|
| Part # | : CXONE-AL01D-V4 1-User License and DVD (other license levels available) |
| OS | : Windows: XP, Vista, 7, 8 |
| Controllers | : CJ2 and CP1E/L/H PLCs and associated products |



Powerful & Flexible Control

MAC Machine Automation Controller ■ PLC

NJ

- Industry leading integrated controller with rack-free modular expansion.
- Logic, motion, vision, safety, robotics, and enterprise in one.
- Built-in EtherNet/IP and EtherCAT.
- Tag based architecture.



Specifications

| | |
|--------------------------------------|------------------------------|
| Power Supply | : 24VDC, 100 to 240VAC |
| Program Capacity | : 5MB, 20MB |
| Built-in Communications Ports | : USB, EtherCAT, EtherNet/IP |
| Maximum I/O | : 2,560 |



CJ2

- High performance, rack-free, modular PLC.
- Integrated EtherNet/IP available.
- Extensive motion, communication, and Analog expansion.



Specifications

| | |
|--------------------------------------|--------------------------------------|
| Power Supply | : 24VDC, 100 to 240 VAC |
| Program Capacity | : 5K to 60K Steps, 50K to 400K Steps |
| Built-in Communications Ports | : USB, EtherNet/IP, RS-232C |
| Maximum I/O | : 2,560 |



CP1E/L/H

- Fully featured Micro PLC family.
- Integrated Ethernet available.
- Integrated Analog available.
- I/O, Analog, and basic expansion.



Specifications

| | |
|-----------------------------|---|
| Power Supply | : 24 VDC, 100 to 240 VAC |
| Program capacity | : 5k - 10k steps |
| Communications Port | : 1 - 2 port options + integrated ports |
| Built-in digital I/O | : 10, 14, 20, 30, 40, 60 point |
| High-speed counters | : 2 inputs (100 kHz) |
| Pulse outputs | : 2 outputs (100 kHz) |
| Analog I/O | : 1-2 pt in # optional expansion |



Vibrant & Clear Display

Operator Interface Terminals

NB Series

- Value displays from 3.5 to 10.1 inch.
- Feature-rich standard interface with class leading color, brightness, and longevity, as well as timesaving maintenance/troubleshooting options.



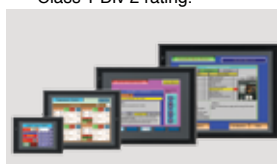
Specifications

| | |
|-----------------------------|-------------------------------|
| Power supply voltage | : 24VDC |
| Communication ports | : RS232, RS422, Ethernet, USB |
| Screen sizes | : 3.5/5.6/7/10.1-inch |
| Internal memory | : 128MB |
| Backlight life | : 50,000 Hours @ 25°C |



NS Series

- 5.7 to 15-inch bright and crisp displays.
- High function, high reliability operation, maintenance, and troubleshooting features with Class 1 Div 2 rating.



Specifications

| | |
|-----------------------------|---------------------------------------|
| Power supply voltage | : 24 VDC |
| Communication ports | : RS-232C, RS-422A/485, USB, Ethernet |
| Screen sizes | : 5.7/8.4/10.4/12.1/15-inch |
| Internal memory | : 60MB |
| Backlight life | : 75,000 Hours @ 25°C |



NA Series

- 7 to 15-inch widescreen high-resolution display
- Programmed within Sysmac Studio
- Video, Document, and VB.Net customization capabilities



Specifications

| | |
|-----------------------------|--------------------------|
| Power supply voltage | : 24 VDC |
| Communication ports | : RS-232C, Ethernet, USB |
| Screen sizes | : 7/9/12.1/15.4-inch |
| Internal memory | : 256MB |
| Backlight life | : 50,000 Hours @ 25°C |



Easy Operation

Pushbutton Switches / Indicators

A22R/M22R

- Easy to Wire.
- Selector, Key-selector, and Indicator are available.



Specifications

| | |
|-------------------|--------------|
| Rated load | : 3A, 240VAC |
|-------------------|--------------|



Quantity Count

Self-powered Totalizer

H7E-N

- Compact Economical Totalizer with High Visibility Available with Backlight LCD Display.



Specifications



| | |
|---------------------|-----------------|
| Display | : LCD |
| Size | : 1/32 DIN |
| Max. counting speed | : 30Hz/1KHz |
| Counting range | : 0 to 99999999 |

Stable Power Supply

Switch Mode Power Supplies

S8VK-G

- Thinner control panel with industry's top class of short body size.



Specifications



| | |
|----------------------|---|
| Input voltage | : 100 to 240 VAC |
| Mounting | : DIN Rail mounting |
| Additional functions | : -40 to 70°C, Dual DC input: 90 to 350 VDC, Power Boost function at 120% |
| Mounting | : DIN Track mounting |

S8VS

- Display for monitoring replacement time.
- Compact size of 40 wide x 95 mm high. (60W)



Specifications



| | |
|----------------------|---|
| Capacity | : 15/30/60/90/120/180/240/480W |
| Input voltage | : 85 to 264 VAC |
| Additional functions | : Overcurrent protection, overvoltage protection, status display, and series operation. |
| Mounting | : Front mounting and DIN Track mounting |

Circuit Switching

General Purpose Relays

MY Series

- Track Record of One Billion Relays Sold Worldwide.



Mini Power Relays

Specifications



| | |
|---|--|
| Standard model | : MY2, MY4 |
| Model with LED indicator | : MY2N, MY4N |
| Model with LED indicator and lockable test button | : MY2IN, MY4IN |
| Contact form | : DPDT, 4PDT |
| Rated load (resistive) | : 2-pole 5A@250VAC, 5A@30VDC 4-pole 3A@250VAC, 3A@30VDC |
| Max. switching current | : 2-pole 10A, 4-pole 5A |
| Rated coil voltage | : 6 to 240VAC, 6 to 110VDC |
| Electrical endurance | : 2-pole 500,000 ops min 4-pole 200,000 ops min |
| Ambient operating temperature | : -55 to +70°C |
| Applicable Socket | : 2-pole PYF08A-E, PYF08S 4-pole PYF14A-E, PYF14S |

LY Series

- Compact, General Purpose 15-A and 10-A Relays ideal for many applications.



Power Relays (4 poles)

(2 poles)

Specifications



| | |
|--|--|
| Standard model | : LY1, LY2, LY3, LY4 |
| Model with LED indicator | : LY1N, LY2N, LY3N, LY4N |
| Model with built-in diode coil surge suppression | : LY1-D, LY2-D, LY3-D, LY4-D |
| Contact form | : SPDT, DPDT, 3PDT, 4PDT |
| Rated load (resistive) | : 1-pole 15A@110VAC, 15A@24VDC 2, 3, 4-pole 10A@110VAC, 10A@24VDC |
| Rated coil voltage | : 6 to 240VAC, 6 to 110VDC |
| Electrical endurance | : 1-pole 200,000 ops min. 2-pole 500,000 ops min. 3, 4-pole 200,000 ops min. |
| Ambient operating temperature | : 1, 2, 3-pole -25 to 55°C 4-pole -25 to 40°C |
| Applicable Socket | : 1, 2-pole PTF08A 3-pole PTF11A 4-pole PTF14A |

MK-S Series

- Exceptionally reliable General Purpose Relay with lockable test button.



Specifications



| | |
|--|--|
| Standard model | : MKS2P, MKS3P |
| Model with built-in indicator | : MKS2PN, MKS3PN |
| Model with built-in LED indicator and lockable test button | : MKS2PIN, MKS3PIN |
| Contact form | : DPDT, 3PDT |
| Rated load (resistive) | : NO 10A@250VAC, 10A@30VDC NC 5A@250VAC, 5A@30VDC |
| Rated coil voltage | : 6 to 240VAC, 6 to 110VDC |
| Electrical endurance | : 100,000 operations min. |
| Ambient operating temperature | : -40 to +60°C |
| Applicable Socket | : 2-pole PF083A-E 3-pole PF113A-E |

Compact Timing Control

Solid-state Timers

H3DK

- Slim design (22.5mm Width) that mounts to DIN Track.
- Universal AC/DC power input.



Specifications



| | |
|-----------------------|---------------------------|
| Time range | : 0.1s to 1200h |
| Power supply voltage | : 24 to 240V AC/DC, 12VDC |
| Output | : SPDT relay / DPDT relay |
| Other models | |
| Twin Timer | : H3DK-F |
| Star-delta Timer | : H3DK-G/GE (*) |
| Power OFF-Delay Timer | : H3DK-H |
| (*) 240 to 440 VAC | |

H3Y

- Ultra-compact, space-saving design of 21.5 wide x 28 high.
- Easy time setting with a large knob.



Specifications



| | |
|----------------------|---------------------------|
| Time range | : 0.5s to 3h |
| Power supply voltage | : 220VAC/110VAC/24VDC |
| ON-delay operation | |
| Output | : Time-limit DPDT or 4PDT |

Monitoring of Speed and Revolution

Digital Panel Meters

K3MA-F

- Highly Visible LCD Display with 2-color (Red and Green) LEDs.



Specifications



| | |
|---------------------|--|
| Supply Voltage | : 100 to 240VAC, 24VAC/DC |
| Display range | : -19999 to 99999 |
| Max. counting speed | : 30Hz/5kHz |
| Out type | : Upper Limit/ Lower Limit/ Upper and Lower Limit |

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