

THE CP1 FAMILY

Compact machine controllers



» Fast programming with Function Blocks

» Flexible Ethernet connectivity

» Easy positioning functionality

Think big... start small!

Omron's vast experience in the field of industrial automation has resulted in the creation of the right products for your applications, ranging from simple to more complex automation solutions. The CP1 family of programmable logic controllers provides you with a complete product line-up to automate compact machines and perform any other simple automation tasks, quickly and easily. Programming and operation are consistent with Omron's other modular PLCs. And you are guaranteed the same high quality and reliability that you expect from any Omron product, ensuring that your equipment keeps on giving continuous dependable performance.

Scalable solution

The CP1 family is scalable; this means that you can choose the products with the right level of sophistication to meet your automation needs in terms of functionality, flexibility and pricing. Each of the CP1 family models, the CP1E, CP1L and CP1H, offers the functionality required for complete machine control. Benefits include: easy expansion of I/O, fast and versatile communication, and full positioning capabilities via ready-to-use Function Blocks. The CP1 family uses the same instruction set and professional programming software found in Omron's other modular PLCs.





Answering your needs... precisely

Fast and versatile communication

Flexible, fast and yet cost-effective communication is essential in today's competitive market. This applies in particular to compact PLCs, which not only need to connect with devices inside the machine, but also outside the machine for operating, data-logging and remote access. With this in mind, Omron has given the CP1 family excellent communication capabilities for both serial and Ethernet networking. In addition, Omron provides flexible and economical option boards for serial communication.

Flexible Ethernet connectivity

To meet communication needs over different protocols simultaneously and to easily connect for remote access, our latest CP1L PLC features embedded Ethernet with socket services functionality. This offers, among other things,

programmable connectivity to third-party devices and makes this outstanding product the best-in-class machine controller on the market.

Easy positioning functions

The CP1 family is designed to fulfill position control tasks. Up to four axes of servo-drives can be controlled with high-speed pulse outputs, while high-speed pulse inputs can allow the connection of up to four encoders. Control is easily achieved with Function Block or standard functions without the need of specialist motion boards or expansion units. Furthermore, thanks to its fast serial ports, the CP1 family is also capable of performing simple positioning tasks. With the use of Modbus Function Blocks, up to 31 inverters can be controlled and monitored in real-time.

Easy positioning, quick results

The CP1 family is the perfect choice for any application that requires positioning. Whether for conveyor control, point-to-point position control, or non-interpolated pick-and-place systems, the combination of high-speed pulse outputs, variable speed drive control and position feedback will provide all the functionality that you need for your application.

Ideal for position control

When simplicity and ease of use are essential, there is no better solution for your position applications than combining the CP1 family with servos and inverters from Omron's extensive range. The SmartStep 2 servo drive is a perfect partner and offers high performance while keeping things simple and cost effective. With the servo position feedback to the controller for position loop control you can monitor the actual positioning and it can also be used to synchronise with another axis. Omron provides standard functions and Function Blocks for SmartStep 2 and other servo drives to create your application with minimal effort.

Easy variable speed drive control

Variable speed drive control is made easy within the CP1 family by using the serial port(s) and the Easy Modbus Master feature for high-speed communication. Omron Function Blocks enable you to control and monitor up to 31 inverters in real-time simply by configuration of parameters. With the encoders connected to the high-speed counter inputs, the CP1 is able to calculate the exact position to perform accurate positioning easily and quickly. In addition, in the MX2 inverter series, all simple positioning is handled within the drive itself.





Saving you time

For many standard functions Omron provide ready-to-use and tested Function Blocks that allow you to reduce your programming and testing time. With Function Blocks you achieve faster, easier and more structured programming that can also increase machine functionality. Ladder programming still remains the easiest language for many people to use, but for more complex mathematical calculations 'Structured Text' (ST) offers greater flexibility. These languages are supported in the CP1L and CP1H. Omron's software is renowned for its ease of use and intuitive style and CX-One is no exception.

Flexible Ethernet connectivity

As simple and quick- as USB!

Thanks to the CP1L's Automatic-Connect function, programming over Ethernet is as simple as using USB on the other models in the CP1 family. This means that you don't need to waste time adjusting the Ethernet settings on the PC, but that you can simply plug and connect, just like USB. The Automatic-Connect function connects instantly over a default IP address to the CP1L, saving you valuable set-up time.

Versatile communication

Omron's CP1L Ethernet models are equipped as standard with Socket Services. This facilitates the easy exchange of data with other Ethernet devices supporting a dedicated protocol. The Socket Services reduce effort and simplify programming and allow Ethernet protocols to be used directly from your PLC program. Ethernet can also be used for applications that require remote access functionality, such as a secure VPN connection with a standard router.

Omron network



Wireless Ethernet



CP1 PLC



Operate and Monitoring



Socket Service



Remote access



Data Logging



Modbus/TCP

More options – greater possibilities!

More analogue I/Os

In addition to the two standard embedded analogue inputs, Omron's CP1L with embedded Ethernet also supports three new, optional analogue I/O boards. These enable you to add extra analogue inputs and outputs, and mixed inputs/outputs at minimum cost and without the need for more cabinet space. With its analogue I/O modules, auto-tuning PID function, and the Easy Modbus Master feature to communicating to temperature controllers, the CP1 is ideal for accurate process control.



CP1 family features at a glance

- 10 to 60 I/O base models, expandable to 320 I/O points
- Digital, analogue and temperature sensor I/O expansion units
- 4 to 6 High-speed encoder inputs and 2 to 4 high-speed pulse outputs
- Modbus Master feature for easy inverter or temperature control
- Analogue I/O option boards and auto-tuning PID for accurate process control
- Optional boards for RS-232/RS-422/485/Ethernet or LCD display
- Ladder diagram, Function Block or Structured Text programming
- Powerful instruction set compatible within Omron's modular PLC series
- USB or Ethernet port – no special cables needed
- No-Battery mode operation – retains the program and data

Maximize efficiency by selecting the optimum CPU unit for your applications



| | | CP1E | | | | | | | | | | |
|---|--|---|-------------------|-------------------|-------------------|-------------------|-------------------|---|-------------------|---|---------------------------------|-------------------------------------|
| | | E-type | | | | | | N-type | | | | |
| | | CP1E -E10D _ _ | CP1E -E14SDR-A | CP1E -E20SDR-A | CP1E -E30SDR-A | CP1E -E40SDR-A | CP1E -E60SDR-A | CP1E -N14D _ _ | CP1E -N20D _ _ | CP1E -NA20D _ _ | CP1E -N30D _ _ | CP1E -N40D _ _ |
| I/O | Digital Inputs | 6 | 8 | 12 | 18 | 24 | 36 | 8 | 12 | 12 | 18 | 24 |
| | Digital Outputs | 4 | 6 | 8 | 12 | 16 | 24 | 6 | 8 | 8 | 12 | 16 |
| | Removable Terminals | No | | | | | | No | | | | |
| | Total I/O Capacity | 10 | 14 | 20 | 150 | 160 | 180 | 14 | 20 | 140 | 150 | 160 |
| | CP1W Expansion Units | No | | | Yes (3 max.) | | | No | | Yes (3 max.) | | |
| | CJ-Series Special I/O and CPU Bus Units | No | | | | | | No | | | | |
| | Interrupt/Quick/Counter Inputs | 4 | 6 | | 6 | | | | | | | |
| | High Speed Counter Inputs | 5 (10 kHz max.) | 6 (10 kHz max.) | | | | | 2 (100 kHz max.) and 4 (10 kHz max.) | | | | |
| | Pulse Outputs (transistor outputs models only) | No | | | | | | 2 axes (100 kHz max.) | | | | |
| | Analog I/O (embedded) | No | | | | | | No | | 2 inputs, 1 output | No | |
| | Analog Adjuster (0-255) | Yes (2) | No | | Yes (2) | | | | | | | N_S1D models: No Others: Yes (2) |
| External Analog Settings Input (resolution 1/256) | No | | | | | | No | | | | | |
| Optional boards | Number of boards supported | 0 | | | | | | 0 | | 1 | N_S1D models: 0 Others: 1 | |
| | Serial Communications (CP1W-CIF01/11/12) | No | | | | | | No | | Yes | N_S1D models: No Others: Yes | |
| | Ethernet (CP1W-CIF41) | No | | | | | | No | | Yes | N_S1D models: No Others: Yes | |
| | LCD Display (CP1W-DAM01) | No | | | | | | No | | | | |
| | Analog I/O boards | No | | | | | | No | | Yes (only CP1E Ver.1.2) | | |
| CPU details | Programming port | USB | | | | | | USB | | | | |
| | RS-232C port (embedded) | No | | | | | | Yes (1) | | Yes (N_S1D models also have RS-485 half-duplex) | | |
| | Function Blocks support (Ladder diagrams or ST language) | No | | | | | | No | | | | |
| | Processing Speed (minimum) | 1.19 µs/Basic instruction, 7.9 µs/Special instruction | | | | | | 1.19 µs/Basic instruction, 7.9 µs/Special instruction | | | | |
| | Program Capacity | 2K steps | | | | | | 8K steps | | | | |
| | Data Memory Capacity | 2K words | | | | | | 8K words | | | | |
| | Memory Cassette (CP1W-ME05M) | No | | | | | | No | | | | |
| | Real-Time Clock | No | | | | | | Yes (with optional battery) | | | | |
| Battery | No | | | | | | Optional | | | | | |
| 7-Segment Display | No | | | | | | No | | | | | |
| Relay Outputs | AC Power Supply | CP1E -E10DR-A | CP1E -E14SDR-A | CP1E -E20SDR-A | CP1E -E30SDR-A | CP1E -E40SDR-A | CP1E -E60SDR-A | CP1E -N14DR-A | CP1E -N20DR-A | CP1E -NA20DR-A | CP1E -N30S1DR-A | CP1E -N40S1DR-A |
| | DC Power Supply | CP1E -E10DR-D | — | — | — | — | — | CP1E -N14DR-D | CP1E -N20DR-D | — | CP1E -N30DR-D | CP1E -N40DR-D |
| Transistor Outputs | Sink Type DC Power Supply | CP1E -E10DT-D | — | — | — | — | — | CP1E -N14DT-D | CP1E -N20DT-D | CP1E -NA20DT-D | CP1E -N30S1DT-D | CP1E -N40S1DT-D |
| | Source DC Power Supply | CP1E -E10DT1-D | — | — | — | — | — | CP1E -N14DT1-D | CP1E -N20DT1-D | CP1E -NA20DT1-D | CP1E -N30S1DT1-D | CP1E -N40S1DT1-D |
| | | | | | | | | | | | CP1E -N30DT1-D | CP1E -N40DT1-D |

Note: This table is a general overview only. For details, refer to the CP1E datasheet (Cat. No. P061), CP1L datasheet (Cat. No. P081) or CP1H datasheet (Cat. No. P080).



| CP1L | | | | | | | | | | CP1H | | | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---|---------------------|--------------------|--|--|--------------------|--|
| L-type | | | | M-type | | | EL-type | EM-type | | | | | |
| CP1E -N60D _ _ | CP1L -L10D _ _ | CP1L -L14D _ _ | CP1L -L20D _ _ | CP1L -M30D _ _ | CP1L -M40D _ _ | CP1L -M60D _ _ | CP1L -EL20D _ _ | CP1L -EM30D _ _ | CP1L -EM40D _ _ | CP1H -Y20DT-D | CP1H -X40D _ _ | CP1H -XA40D _ _ | |
| 36 | 6 | 8 | 12 | 18 | 24 | 36 | 12 | 18 | 24 | 12 | 24 | 24 | |
| 24 | 4 | 6 | 8 | 12 | 16 | 24 | 8 | 12 | 16 | 8 | 16 | 16 | |
| No | | | | Yes | | | No | Yes | | | Yes | | |
| 180 | 10 | 54 | 60 | 150 | 160 | 180 | 60 | 150 | 160 | 300 | 320 | 320 | |
| No | | Yes (1 max.) | | Yes (3 max.) | | | Yes (1 max.) | Yes (3 max.) | | | Yes (7 units or 15 input words/ 15 output words max.) | | |
| No | | | | | | | No | | | Yes (2 max.) | | | |
| 2 | | 4 | 6 | | | | | 6 | | | 6 | 8 | |
| 4 (100 kHz max.) | | | | | | | 4 (100 kHz max.) | | | 2 (100 kHz max.) and 2 Line-driver (1 MHz) | 4 (100 kHz max.) | | |
| 2 axes (100 kHz max.) | | | | | | | 2 axes (100 kHz max.) | | | 2 (100 kHz max.) and 2 Line-driver (1 MHz) | 4 axes (100 kHz max.) | | |
| No | | | | | | | 2 inputs | | | No | 4 inputs, 2 outputs | | |
| Yes (1) | | | | | | | No | | | Yes (1) | | | |
| Yes (0 to 10 V) | | | | | | | No | | | Yes (0 to 10 V) | | | |
| 0 | | 1 | | 2 | | | 1 | 2 | | 2 | | | |
| No | | Yes | | | | | Yes | | | Yes | | | |
| No | | Yes | | | | | No | | | Yes | | | |
| No | | Yes | | | | | Yes | | | Yes | | | |
| No | | | | | | | Yes | | | No | | | |
| USB | | | | | | | Ethernet | | | USB | | | |
| No | | | | | | | No | | | No | | | |
| Yes | | | | | | | Yes | | | Yes | | | |
| 0.55 µs/Basic instruction, 4.1 µs/Special instruction | | | | | | | 0.55 µs/Basic instruction, 4.1 µs/ Special instruction | | | 0.10 µs/Basic instruction, 0.15 µs/ Special instruction | | | |
| 5K steps | | | | 10K steps | | | 5K (+10K FB) steps | 10K (+10K FB) steps | | 20K steps | | | |
| 10K words | | | | 32K words | | | 10K words | 32K words | | 32K words | | | |
| Yes | | | | | | | Yes | | | Yes | | | |
| Yes | | | | | | | Yes | | | Yes | | | |
| Yes | | | | | | | Yes | | | Yes | | | |
| No | | | | | | | No | | | Yes | | | |
| CP1E -N60S1DR-A | CP1L -L10DR-A | CP1L -L14DR-A | CP1L -L20DR-A | CP1L -M30DR-A | CP1L -M40DR-A | CP1L -M60DR-A | - | - | - | - | CP1H -X40DR-A | CP1H -XA40DR-A | |
| CP1E -N60DR-A | | | | | | | | | | | | | |
| CP1E -N60DR-D | CP1L -L10DR-D | CP1L -L14DR-D | CP1L -L20DR-D | CP1L -M30DR-D | CP1L -M40DR-D | CP1L -M60DR-D | CP1L -EL20DR-D | CP1L -EM30DR-D | CP1L -EM40DR-D | - | - | - | |
| CP1E -N60S1DT-D | CP1L -L10DT-D | CP1L -L14DT-D | CP1L -L20DT-D | CP1L -M30DT-D | CP1L -M40DT-D | CP1L -M60DT-D | CP1L -EL20DT-D | CP1L -EM30DT-D | CP1L -EM40DT-D | CP1H -Y20DT-D | CP1H -X40DT-D | CP1H -XA40DT-D | |
| CP1E -N60DT-D | | | | | | | | | | | | | |
| CP1E -N60S1DT1-D | CP1L -L10DT1-D | CP1L -L14DT1-D | CP1L -L20DT1-D | CP1L -M30DT1-D | CP1L -M40DT1-D | CP1L -M60DT1-D | CP1L -EL20DT1-D | CP1L -EM30DT1-D | CP1L -EM40DT1-D | - | CP1H -X40DT1-D | CP1H -XA40DT1-D | |
| CP1E -N60DT1-D | | | | | | | | | | | | | |

Expansion units

Expansion I/O Units



CP1W-8ED
DC inputs: 8

CP1W-8ER
Relay outputs: 8

CP1W-8ET
Transistor outputs (sinking): 8

CP1W-8ET1
Transistor outputs (sourcing): 8



CP1W-16ER
Relay outputs: 16

CP1W-16ET
Transistor outputs (sinking): 16

CP1W-16ET1
Transistor outputs (sourcing): 16

CP1W-20EDR1
DC inputs: 12
Relay outputs: 8



CP1W-20EDT
DC inputs: 12
Transistor outputs (sinking): 8

CP1W-20EDT1
DC inputs: 12
Transistor outputs (sourcing): 8

CP1W-32ER
Relay outputs: 32

CP1W-32ET
Transistor outputs (sinking): 32

CP1W-32ET1
Transistor outputs (sourcing): 32
CP1W-40EDR
DC inputs: 24
Relay outputs: 16

CP1W-40EDT
DC inputs: 24
Transistor outputs (sinking): 16

CP1W-40EDT1
DC inputs: 24
Transistor outputs (sourcing): 16

Analog I/O Units



Analog Input Unit

CP1W-AD042
Inputs: 4 (12,000 resolution)



Analog I/O Unit

CP1W-MAD11
Inputs: 2 (6,000 resolution)
Output: 1 (6,000 resolution)

CP1W-MAD42
Inputs: 4 (12,000 resolution)
Outputs: 2 (12,000 resolution)

CP1W-MAD44
Inputs: 4 (12,000 resolution)
Outputs: 4 (12,000 resolution)

Analog Output Unit

CP1W-DA021
Outputs: 2 (6,000 resolution)

CP1W-DA042
Outputs: 4 (12,000 resolution)

Temperature Sensor Unit



CP1W-TS001
Thermocouple inputs: 2

CP1W-TS003
Thermocouple inputs: 4
Analog inputs: 2 (instead of 2 thermocouple inputs)

CP1W-TS004
Thermocouple inputs: 12

CP1W-TS101
Platinum-resistance thermometer inputs: 2

CP1W-TS102
Platinum-resistance thermometer inputs: 4

CompoBus/S I/O Link Unit



CP1W-SRT21
Inputs: 8 bits
Outputs: 8 bits

DeviceNet I/O Link Unit



CPM1A-DRT21
Inputs: 32 bits
Outputs: 32 bits

PROFIBUS-DP I/O Link Unit



CPM1A-PRT21
Inputs: 16 bits
Outputs: 16 bits

Optional Boards



CP1W-CIF01
RS-232C
(15 m max.)



CP1W-CIF11
RS-422A/485
(50 m max.)



CP1W-CIF12
RS-422A/485
(Isolated-type)
(500 m max.)



CP1W-CIF41
Ethernet



CP1W-DAM01
Display 4 rows,
12 characters



CP1W-ADB21
Analog 2 inputs,
0-10 V, 0-20 mA



CP1W-DAB21V
Analog
2 outputs, 0-10 V



CP1W-MAB221
Analog 2 inputs
0-10 V, 0-20 mA &
2 outputs 0-10 V

USB Programming Cable



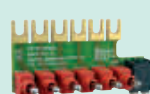
CP1W-CN221
A-type male to B-type male,
Length: 1,8 m

Memory Cassette



CP1W-ME05M
512K words
(upload/download program)

Switch Input Board



CP1W-SWB06

Battery Set



CP1W-BAT01

CJ Unit Adapter



CP1W-EXT01
CJ Unit adapter
for use with
CP1H.
Includes CJ
endplate.

I/O Connecting Cable



CP1W-CN811
Length: 80 cm

CP1W/CPM1A Expansion Units
include I/O Connection Cables (in
lengths of approx. 6 cm) for
side-by-side connection.

Note 1: This table is a general overview only. For details, refer to the CP1E datasheet (Cat. No. P061), CP1L datasheet (Cat. No. P081) or CP1H datasheet (Cat. No. P080).

Note 2: CPM1A Expansion Unit and Expansion I/O Units can be used with CP1H, CP1L or CP1E CPU Units under the same conditions as for the CP1W.

Software

| | | Media | Order code |
|-------------|---------------------|--------------|----------------|
| CX-One FULL | Single user licence | Licence only | CXONE-AL01-EV4 |
| | Three user licence | Licence only | CXONE-AL03-EV4 |
| | Ten user licence | Licence only | CXONE-AL10-EV4 |
| | Software only | DVD | CXONE-DVD-EV4 |
| CX-One LITE | Single user licence | Licence only | CXONE-LT01-EV4 |
| | Software only | CD | CXONE-LTCD-EV4 |

CX-One LITE includes: CX-Programmer, CX-Designer, CX-Simulator, CX-Drive, CX-Thermo, CX-Sensor, CX-Integrator, CX-Server, CX-Configurator/FDT, NV-Designer, FB/SAP, PLC Tools/Utilities.

Supported PLCs: CP1E, CP1L, CP1H, CPM1, CPM1A, CPM2A, CPM2C, SRM1.

CX-One supported OS: Windows 8, Windows 7, Windows Vista®, Windows XP (SP3).

Note: Except for Windows XP 64-bit version.

Using CJ-series units and CP1W units with the CP1H

Up to two CJ-series CPU Bus Units or Special I/O Units can be connected.

CJ Unit Adaptor CP1W-EXT01

Up to 7 CP1W Expansion Units and Expansion I/O Units can be connected.

CP1W Expansion Units and Expansion I/O Units and CJ Units can be used simultaneously.
CP1W-CN811 I/O Connecting Cable is required.

CJ-Series Units for use with CP1H

| | Description | Order code | | Description | Order code | | |
|--------------------------------|--|-------------------------|-------------------------------|-------------------------------------|---------------------------------------|----------------------------|---------------|
| Analog I/O and Control Units | Universal Analog Input Unit | CJ1W-AD04U | Motion/Position Control Units | Position Control Units | CJ1W-NC113 | | |
| | Analog Input Unit | CJ1W-AD041-V1 | | CJ1W-NC133 | | | |
| | | CJ1W-AD042 | | CJ1W-NC213 | | | |
| | | CJ1W-AD081-V1 | | CJ1W-NC233 | | | |
| | | CJ1W-AD081-V1 | | CJ1W-NC413 | | | |
| | Analog Output Unit | CJ1W-DA021 | | CJ1W-NC433 | MECHATROLINK-II Position Control Unit | CJ1W-NC433 | |
| | | CJ1W-DA041 | | CJ1W-NCF71 | | | |
| | | CJ1W-DA042V | | CJ1W-NCF71-MA | | | |
| | | CJ1W-DA08V | | CJ1W-NC271 | | | |
| | | CJ1W-DA08C | | CJ1W-NC471 | | | |
| | Analog Input/Output Unit | CJ1W-MAD42 | | MECHATROLINK-II Motion Control Unit | CJ1W-MCH71 | | |
| | Universal Analog Input Unit | CJ1W-PH41U | | | Communication Units | Serial Communication Units | CJ1W-SCU21-V1 |
| | Process Input Unit | CJ1W-PDC15 | | | | | CJ1W-SCU22 |
| | Thermocouple Input Unit | CJ1W-PTS15 | | | | | CJ1W-SCU31-V1 |
| | | CJ1W-PTS51 | | | | | CJ1W-SCU32 |
| | Resistance Thermometer Input Unit | CJ1W-PTS16 | | CJ1W-SCU41-V1 | | | |
| | | CJ1W-PTS52 | | CJ1W-SCU42 | | | |
| | Temperature Control Loops, Thermocouple Unit | CJ1W-TC001 | | Ethernet Unit | | | CJ1W-ETN21 |
| | | CJ1W-TC002 | | | | | CJ1W-EIP21 |
| | | CJ1W-TC003 | | | | | CJ1W-SPU01-V2 |
| CJ1W-TC004 | | CJ1W-DRM21 | | | | | |
| Temperature Control Loops, RTD | CJ1W-TC101 | CJ1W-CRM21 | | | | | |
| | CJ1W-TC102 | CJ1W-SRM21 | | | | | |
| | CJ1W-TC103 | CJ1W-PNT21 | | | | | |
| | CJ1W-TC104 | CJ1W-PRM21 | | | | | |
| | Motion/Position Control Units | SSI Input Unit | CJ1W-CTS21-E | | CJ1W-PRT21 | | |
| | | High Speed Counter Unit | CJ1W-CT021 | | CJ1W-CTL23 | | |
| 4-Channel Counter Unit | | CJ1W-CTL41-E | CJ1W-CORT21 | | | | |
| 24 VDC Motor Control Unit | | CJ1W-DCM11-E | Control Units | CJ1W-V680C11 | | | |
| | | CJ1W-V680C12 | | | | | |
| | | CJ1W-V600C11 | | | | | |
| | | CJ1W-V600C12 | | | | | |

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Automation Systems

- Programmable logic controllers (PLC) • Human machine interfaces (HMI) • Remote I/O
- Industrial PC's • Software

Motion & Drives

- Motion controllers • Servo systems • Inverters • Robots

Control Components

- Temperature controllers • Power supplies • Timers • Counters • Programmable relays
- Digital panel indicators • Electromechanical relays • Monitoring products • Solid-state relays
- Limit switches • Pushbutton switches • Low voltage switch gear

Sensing & Safety

- Photoelectric sensors • Inductive sensors • Capacitive & pressure sensors
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