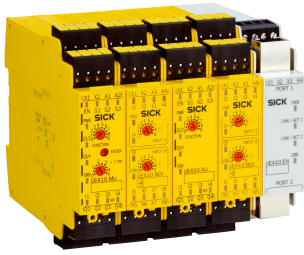


## Flexi Classic

Efficient and easy-to-use safety controller

**SICK**  
Sensor Intelligence.



## Technical data overview

|   |   |
|---|---|
| <b>Safety level</b>                           | PL e, SIL 3   |
| <b>Configuration method</b>                   | Via rotary switch / hard wired (depending on type)  |
| <b>System construction</b>                    | Modular<br>1 main module<br>0 ... 11 expansion modules<br>0 ... 8 relay modules<br>0 ... 1 gateways |
| <b>Fieldbus, industrial network</b>           | EtherNet/IP™, Modbus, PROFINET, PROFIBUS DP, CANopen, DeviceNet™ (depending on type)                |
| <b>Safe networking</b>                        | Global emergency stop   |
| <b>Safe series connection with Flexi Loop</b> | Flexi Loop  |

## Product description

The Flexi Classic modular safety controller enables straightforward configuration without any software. This allows the user to adapt the logic evaluation settings to the requirements of the application concerned. Logic functions are configured through rotary switches. These switches are located directly on the modules, enabling quick and easy commissioning. Communication between the individual modules is achieved via an internal bus, providing users interface information about the diagnostics of the safety system. The product portfolio includes gateways, which have no influence on the adjusted logic and are used for connection to a higher-level, non-safe control. The gateways collect and forward the information of the system, ensuring quick diagnostics. The Flexi Classic also offers the Flexi Classic configurator tool as a configuration aid to provide a wiring diagram for the created project. Special modules for muting complete this product family, which provides efficient solutions for a whole host of applications.

## At a glance

- Rotary switch for easy function adjustment
- Modular extension possible
- Direct wiring for all types of sensors
- Logic functions: AND, OR, muting, bypass, reset, EDM
- Integration into all common fieldbuses
- Integration of the Flexi Loop safe series connection
- Special muting modules are able to meet all the requirements of a demanding muting application

## Your benefits

- The optimal scalability thanks to the modular construction prevents redundant inputs and outputs as well as reducing hardware
- Configuration via rotary switch simplifies logic configuration
- Flexi Classic configurator tool offers easy logic configuration and wiring help
- Complete diagnostics for the system, preventing unplanned downtime
- The compact design enables significant reduction of the control cabinet width
- Significantly reduced wiring compared with conventional safety solutions. Wiring with Flexi Loop is even easier.

## Fields of application

- Machines with simple to medium safety logic
- Safety-relevant applications for a variety of industries, e.g. electronics, robotics, packaging, logistics and automotive

## Ordering information

Other models and accessories → [www.sick.com/Flexi\\_Classic](http://www.sick.com/Flexi_Classic)

- Flexi Classic CPU
- Main modules
- **Applications:** Universal

| Inputs                                | Number of muting sensors | Outputs                            | Delay time (outputs Q3/Q4) | Connection type              | Type          | Part no. |
|---------------------------------------|--------------------------|------------------------------------|----------------------------|------------------------------|---------------|----------|
| 4 safety inputs<br>4 switching inputs | 0 / 2                    | 4 safety outputs<br>2 test outputs | –                          | Plug-in screw-type terminals | UE410-MU3T0   | 6035242  |
|                                       |                          |                                    |                            | Plug-in spring terminals     | UE410-MU4T0   | 6035243  |
|                                       |                          |                                    | 0 s ... 5 s                | Plug-in screw-type terminals | UE410-MU3T5   | 6026136  |
|                                       |                          |                                    |                            | Plug-in spring terminals     | UE410-MU4T5   | 6032669  |
|                                       |                          |                                    | 0 s ... 50 s               | Plug-in screw-type terminals | UE410-MU3T50  | 6026137  |
|                                       |                          |                                    |                            | Plug-in spring terminals     | UE410-MU4T50  | 6032670  |
|                                       |                          |                                    | 0 s ... 300 s              | Plug-in screw-type terminals | UE410-MU3T300 | 6026138  |
|                                       |                          |                                    |                            | Plug-in spring terminals     | UE410-MU4T300 | 6032671  |

- Flexi Classic CPU
- Main modules
- **Applications:** Muting experts

| Inputs   | Number of muting sensors | Outputs  | Connection type              | Type      | Part no. |
|--|--------------------------|--|------------------------------|-----------|----------|
| 2 safety inputs<br>2 switching inputs<br>4 muting inputs | 2 / 4                    | 2 safety outputs<br>2 test outputs<br>2 application diagnostic outputs | Plug-in screw-type terminals | UE410-MM3 | 6034482  |
|  |                          |  | Plug-in spring terminals     | UE410-MM4 | 6034645  |

- Flexi Classic CPU
- Main modules
- **Applications:** global emergency stop

| Inputs   | Outputs  | Connection type              | Type      | Part no. |
|--|--|------------------------------|-----------|----------|
| 4 safety inputs<br>2 switching inputs<br>2 inputs for the global emergency stop function | 1 safety output<br>2 test outputs<br>1 diagnostic output<br>2 outputs for the global emergency stop function | Plug-in screw-type terminals | UE410-GU3 | 1072177  |
|  |  | Plug-in spring terminals     | UE410-GU4 | 1094339  |

- Flexi Classic I/O
- I/O modules
- **Applications:** Universal

| Inputs                                | Number of muting sensors | Outputs                            | Delay time (outputs Q3/Q4) | Connection type              | Type          | Part no. |
|---------------------------------------|--------------------------|------------------------------------|----------------------------|------------------------------|---------------|----------|
| 4 safety inputs<br>4 switching inputs | 0 / 2                    | 4 safety outputs<br>2 test outputs | –                          | Plug-in screw-type terminals | UE410-XU3T0   | 6035244  |
|                                       |                          |                                    |                            | Plug-in spring terminals     | UE410-XU4T0   | 6035245  |
|                                       |                          |                                    | 0 s ... 5 s                | Plug-in screw-type terminals | UE410-XU3T5   | 6032470  |
|                                       |                          |                                    |                            | Plug-in spring terminals     | UE410-XU4T5   | 6032672  |
|                                       |                          |                                    | 0 s ... 50 s               | Plug-in screw-type terminals | UE410-XU3T50  | 6032471  |
|                                       |                          |                                    |                            | Plug-in spring terminals     | UE410-XU4T50  | 6032673  |
|                                       |                          |                                    | 0 s ... 300 s              | Plug-in screw-type terminals | UE410-XU3T300 | 6032472  |
|                                       |                          |                                    |                            | Plug-in spring terminals     | UE410-XU4T300 | 6032674  |
| 8 safety inputs                       | –                        | 8 test outputs                     | –                          | Plug-in screw-type terminals | UE410-8DI3    | 6026139  |
|                                       |                          |                                    |                            | Plug-in spring terminals     | UE410-8DI4    | 6032675  |

- Flexi Classic I/O
- I/O modules
- **Applications:** Muting experts

| Inputs   | Number of muting sensors | Outputs  | Connection type              | Type       | Part no. |
|--|--------------------------|--|------------------------------|------------|----------|
| 2 safety inputs<br>2 switching inputs<br>4 muting inputs | 2 / 4                    | 2 safety outputs<br>2 test outputs<br>2 application diagnostic outputs | Plug-in screw-type terminals | UE410-XM3  | 6034483  |
|  |                          |  | Plug-in spring terminals     | UE410-XM4  | 6034646  |
| 3 switching inputs                                       | –                        | –  | Plug-in screw-type terminals | UE410-MDI3 | 6034484  |
|  |                          |  | Plug-in spring terminals     | UE410-MDI4 | 6034647  |

- Flexi Classic Gateway
- Gateways

| Fieldbus, industrial network | Connection type             | Number of application diagnostic outputs | Application diagnostic output connection type8 | Type      | Part no. |
|------------------------------|-----------------------------|--|--|-----------|----------|
| EtherNet/IP™                 | 2 x female connector, RJ-45 | 4  | Plug-in screw-type terminals                   | UE410-EN1 | 1042964  |
| Modbus® TCP                  | 2 x female connector, RJ-45 | 4  | Plug-in screw-type terminals                   | UE410-EN3 | 1042193  |
| PROFINET                     | 2 x female connector, RJ-45 | 4  | Plug-in screw-type terminals                   | UE410-EN4 | 1044078  |

| Fieldbus, industrial network | Connection type                         | Number of application diagnostic outputs | Application diagnostic output connection type <sup>8</sup> | Type       | Part no. |
|------------------------------|---|--|--|------------|----------|
| PROFIBUS DP                  | 1 x female connector, D-Sub, 9-pin      | 4  | Plug-in screw-type terminals                               | UE410-PRO3 | 6028407  |
|                              |   |  | Plug-in spring terminals                                   | UE410-PRO4 | 6032678  |
| CANopen                      | 1 x female connector, Open Style, 5-pin | 4  | Plug-in screw-type terminals                               | UE410-CAN3 | 6033111  |
|                              |   |  | Plug-in spring terminals                                   | UE410-CAN4 | 6033112  |
| DeviceNet™                   | 1 x female connector, Open Style, 5-pin | 4  | Plug-in screw-type terminals                               | UE410-DEV3 | 6032469  |
|                              |   |  | Plug-in spring terminals                                   | UE410-DEV4 | 6032679  |

- Relay modules

| Number of enable current contacts | Number of signaling current paths | Number of signaling current contacts | Connection type              | Protective coating | Type         | Part no. |
|-----------------------------------|-----------------------------------|--------------------------------------|------------------------------|--------------------|--------------|----------|
| 2                                 | 1                                 | 1                                    | Plug-in screw-type terminals | -                  | UE410-2R03   | 6026144  |
|                                   |                                   |                                      | Plug-in spring terminals     | -                  | UE410-2R04   | 6032677  |
|                                   |                                   |                                      |                              | ✓                  | UE410-2R0401 | 1118380  |
| 4                                 | 2                                 | 2                                    | Plug-in screw-type terminals | -                  | UE410-4R03   | 6026143  |
|                                   |                                   |                                      | Plug-in spring terminals     | -                  | UE410-4R04   | 6032676  |
|                                   |                                   |                                      |                              | ✓                  | UE410-4R0401 | 6053182  |

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)