



## Electro-mechanical safety switches Safety locking devices, i110 Lock

i110-E0453



**Model Name** > [i110-E0453](#)  
**Part No.** > [6051601](#)

**At a glance**

- Narrow plastic housing
- Metal actuator head
- Rigid or mobile actuators
- Available with M20 X 1.5 cable entry glands or Flexi Loop-compatible M12 plug connector (depending on variant)
- Locked by spring force and magnetic force
- Lock and door monitoring

**Your benefits**

- Small design simplifies installation and makes it easy to mount directly on the guard door frame
- Flexible electrical connectivity due to three cable entry glands
- Improved diagnostics due to additional contacts for door monitoring
- Simple adjustment due to various actuators that are suitable for any door
- Different switching elements offer the appropriate solution for electrical installation
- Rugged metal housing provides increased machine reliability, even when the guard has a mechanical offset
- Flexi Loop now enables a safe series connection with enhanced diagnostics capabilities and minimal wiring effort.



*actuator not supplied with delivery*

**Note: The actuator has to be ordered separately. See "Accessories" for further details.**















**Technical data**

|                                 |   |
|---------------------------------|---|
| Housing material:               | Glass-fiber reinforced thermoplastic      |
| Actuating head material:        | Metal                                     |
| Enclosure rating:               | IP 67 (IEC 60529)                         |
| Ambient operating temperature:  | -20 °C ... +55 °C                         |
| B10d parameter:                 | 5*1E 06 switching cycles, with small load |
| Locking type:                   | Electrical                                |
| Maximum locking force:          | 2,500 N                                   |
| Number of actuation directions: | 5   |
| Approach speed:                 | 20 m/min                                  |
| Actuation force:                | 35 N                                      |

|   |                                 |
|---|---------------------------------|
| Max. force that can be locked against:                      | 20 N                            |
| Switching principle:  | Slow action switching element   |
| Number of positive action N/C solenoid monitoring contacts: | 2                               |
| Number of N/O solenoid monitoring contacts:                 | 0                               |
| Number of positive action N/C door monitoring contacts:     | 2                               |
| Number of N/O door monitoring contacts:                     | 0                               |
| Number of N/C door monitoring contacts:                     | 0                               |
| Mechanical life:  | 1*1E 06 switching cycles        |
| Usage category:   | AC-15/DC-13 (IEC 60947-5-1)     |
| Rated operating current (voltage):                          | 4 A (230 V AC)<br>4 A (24 V DC) |
| Solenoid operating voltage:                                 | 24 V DC                         |
| Electrical connection:                                      | Cable gland, 3 x M20            |
| Flexi Loop-compatible plug connector:                       | -                               |
| For process protection only:                                | -                               |
| Weight:   | 0.5 kg                          |

## Switching elements

|                      | Actuator inserted   |   | Actuator removed  |
|----------------------|---|---|---|
|                      | locked  | unlocked  |   |
| Switching element 23 |   |   |   |
| Switching element 26 |  |  |  |
| Switching element 31 |  |  |  |
| Switching element 45 |  |  |  |

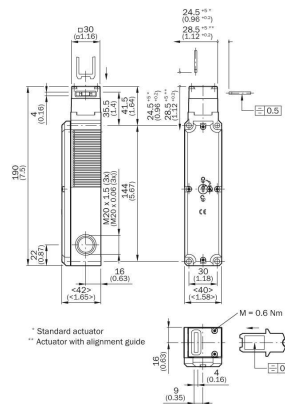
**Switching element 23:**  
2 positive action N/C contacts + 1 N/O contact + 1 N/C as door contact

**Switching element 26:**  
2 positive action N/C contacts + 1 N/O contact as door contact + 1 N/C as door contact

**Switching element 31:**  
2 positive action N/C contacts + 1 N/O contact as door contact + 1 positive action N/C as door contact

**Switching element 45:**  
2 positive action N/C contacts + 2 positive action N/C as door contacts

## Dimensional drawing



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