

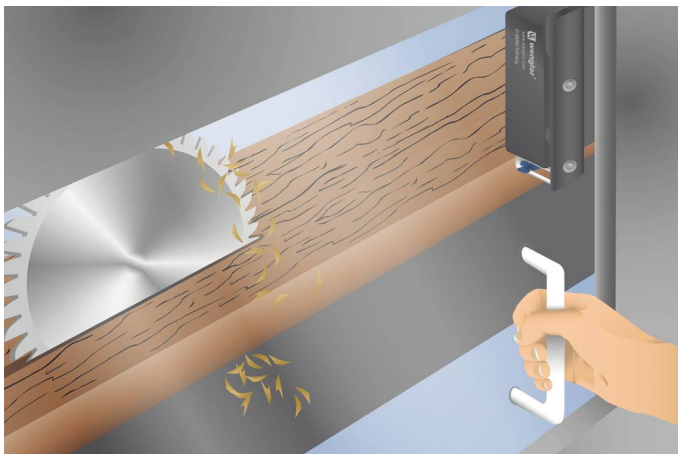
# Safety Switch with Lock Function

## Electromechanic, Power to Lock Principle

# S2FP102

- Locking force of 1150 N
- Performance Level: Cat. 4 PL e
- Power to lock principle

The electromechanical safety switch with lock function is distinguished by a high locking force of 1150 N. This means that only one safety switch with locking function is required to attain the Cat. 4 PL e safety level (EN ISO 13849-1). The safety level, as well as the response time and risk time, remain unchanged when connected in series. Extensive diagnosis functions enhance system availability and simplify installation and maintenance. The unique star handle operating concept is especially well-suited for rotary and sliding doors.



| Electrical Data                     |                         |
|-------------------------------------|-------------------------|
| Sensor Type                         | Locking unit            |
| Response Time                       | ≤ 100 ms                |
| Risk time                           | ≤ 200 ms                |
| Temperature Range                   | 0...60 °C               |
| Storage temperature                 | -10...90 °C             |
| Safety Output                       | OSSD                    |
| Number of safety outputs (OSSDs)    | 2                       |
| PNP Safety Output/Switching Current | 250 mA                  |
| Number of Signal Outputs            | 1                       |
| PNP signal output switching current | 50 mA                   |
| Short Circuit Protection            | yes                     |
| Protection Class                    | III                     |
| Mechanical Data                     |                         |
| Housing Material                    | Plastic                 |
| Degree of Protection                | IP66                    |
| Degree of Protection                | IP67                    |
| Degree of Protection                | IP69                    |
| Connection                          | M12 × 1; 8-pin          |
| Latching Force, typical             | 25 / 50 N               |
| Safety-relevant Data                |                         |
| Operating principle                 | RFID                    |
| Coding                              | Standard                |
| Safety Category (EN ISO 13849-1)    | 4                       |
| Performance Level (EN ISO 13849-1)  | PL e                    |
| PFHD                                | 5,20 × E-10 1/h         |
| Safety Integrity Level (EN 61508)   | SIL 3                   |
| PDDb (EN 60947-5-3)                 | yes                     |
| Locking Device                      | Power to lock principle |
| Locking force F (Zh)                | 1150 N                  |
| Function                            |                         |
| Series Connection                   | yes                     |
| Actuator monitored                  | yes                     |
| Mechanical Detent Mechanism         | yes                     |
| Detent Mechanism                    | yes                     |
| Auxiliary release                   | yes                     |
| Connection Diagram No.              |                         |
| Suitable Connection Equipment No.   | 89                      |
| Suitable Mounting Technology No.    | 850                     |

\* For locking function

## Complementary Products

Safety Relay SR4B3B01S, SR4D3B01S  
Software

