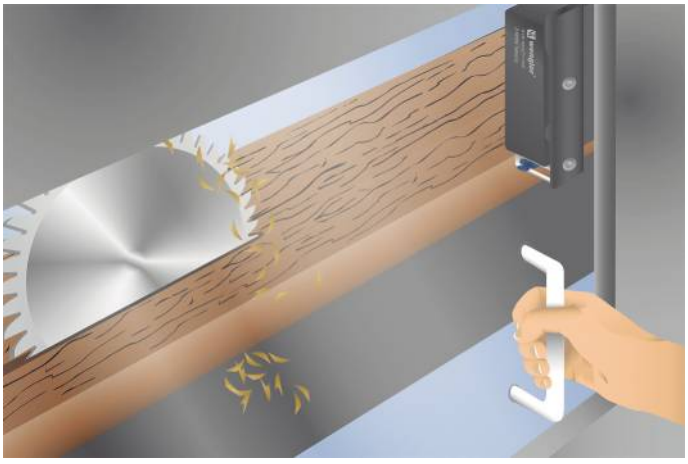
# Guard Locking Device
**Electromechanic, Power to Unlock Principle**

# S2FP002
Part Number


- **Continuously monitored locking force of 1000 N**
- **Escape release**
- **Performance Level: Cat. 4 PL e**
- **Power to unlock principle**

The electromechanical guard locking device is distinguished by a high, continuously monitored locking force of 1000 N. As a result, only one guard locking device is required in order to fulfill a safety level of category 4 PL e (EN ISO 13849-1). The safety level, as well as reaction 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.



## Technical Data

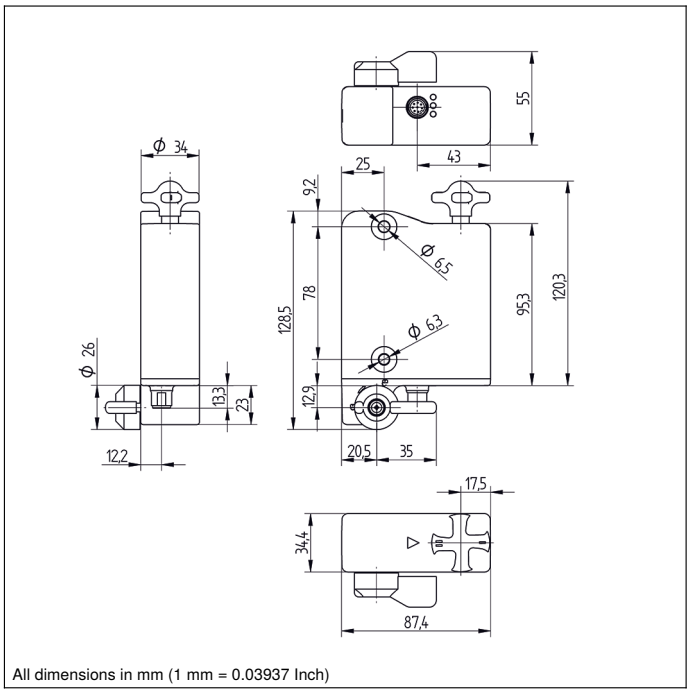
| | |
|---|---|
| **Electrical Data** | |
| Sensor Type | Locking unit |
| Supply Voltage | 20,4...26,4 V DC |
| Response Time | ≤ 100 ms |
| Risk time | ≤ 200 ms |
| Temperature Range | 0...60 °C |
| Storage temperature | -10...90 °C |
| Safety Output | OSSD |
| No. Safety Outputs (OSSDs) | 2 |
| PNP Safety Output/Switching Current | 250 mA |
| 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 | IP65/IP67/IP69 |
| Connection | M12 × 1; 8-pin |
| Detent force, typical | 25 / 50 N |
| **Safety-relevant Data** | |
| Operating principle | RFID |
| Coding | Standard |
| Performance Level (EN ISO 13849-1) | Cat. 4 PL e * |
| PFHD | 5,20 × E-10 1/h * |
| Safety Integrity Level (EN 61508) | SIL3* |
| Safety Integrity Level (EN 62061) | SILCL3* |
| PDDB (EN 60947-5-3) | yes |
| Lock | Power to unlock principle |
| Locking Force F, guaranteed | 1000 N |
| **Function** | |
| Series connection | yes |
| Monitored lock | yes |
| Mechanical lock | yes |
| Detent | yes |
| Auxiliary release | yes |
| Emergency release | yes |
| Applicable actuator | S2FP200 |
| Connection Diagram No. | P03 |
| Suitable Connection Technology No. | 89 |
| Suitable Mounting Technology No. | 850 |

* For locking function

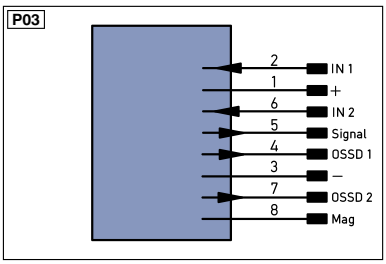
## Complementary Products

Safety Relay SR4B3B01S, SR4D3B01S

Software




All dimensions in mm (1 mm = 0.03937 Inch)




## Legend

| | |
|---|---|
| + | Supply Voltage + |
| – | Supply Voltage 0 V |
| ~ | Supply Voltage (AC Voltage) |
| A | Switching Output (NO) |
| Ā | Switching Output (NC) |
| V | Contamination/Error Output (NO) |
| V̄ | Contamination/Error Output (NC) |
| E | Input (analog or digital) |
| T | Teach Input |
| Z | Time Delay (activation) |
| S | Shielding |
| RxD | Interface Receive Path |
| TxD | Interface Send Path |
| RDY | Ready |
| GND | Ground |
| CL | Clock |
| E/A | Output/Input programmable |
| | IO-Link |
| PoE | Power over Ethernet |
| IN | Safety Input |
| OSSD | Safety Output |
| Signal | Signal Output |
| Bl_D+/- | Ethernet Gigabit bidirect. data line (A-D) |
| EN0 RS422 | Encoder 0-pulse 0-0̄ (TTL) |
| PT | Platinum measuring resistor |
| nc | not connected |
| U | Test Input |
| Ū | Test Input inverted |
| W | Trigger Input |
| O | Analog Output |
| O– | Ground for the Analog Output |
| BZ | Block Discharge |
| AMV | Valve Output |
| a | Valve Control Output + |
| b | Valve Control Output 0 V |
| SY | Synchronization |
| E+ | Receiver-Line |
| S+ | Emitter-Line |
| ⏚ | Grounding |
| SnR | Switching Distance Reduction |
| Rx+/– | Ethernet Receive Path |
| Tx+/– | Ethernet Send Path |
| Bus | Interfaces-Bus A(+)/B(–) |
| La | Emitted Light disengageable |
| Mag | Magnet activation |
| RES | Input confirmation |
| EDM | Contactor Monitoring |
| ENA RS422 | Encoder A/Ā (TTL) |
| ENB RS422 | Encoder B/B̄ (TTL) |
| ENA | Encoder A |
| ENB | Encoder B |
| AMIN | Digital output MIN |
| AMAX | Digital output MAX |
| AOK | Digital output OK |
| SY In | Synchronization In |
| SY OUT | Synchronization OUT |
| OLT | Brightness output |
| M | Maintenance |

### Wire Colors according to DIN IEC 757

| | |
|---|---|
| BK | Black |
| BN | Brown |
| RD | Red |
| OG | Orange |
| YE | Yellow |
| GN | Green |
| BU | Blue |
| VT | Violet |
| GY | Grey |
| WH | White |
| PK | Pink |
| GNYE | Green/Yellow |