## Safety Switch with Lock Function

Electromechanic, Power to Unlock Principle

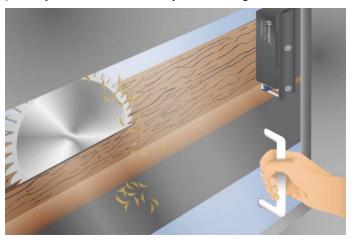
## S2FP101

Part Number



- Locking force of 1000 N
- Performance Level: Cat. 4 PL e
- Power to unlock principle

The electromechanical safety switch with lock function is distinguished by a high locking force of 1000 N. As a result, only one safety switch with lock function 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**

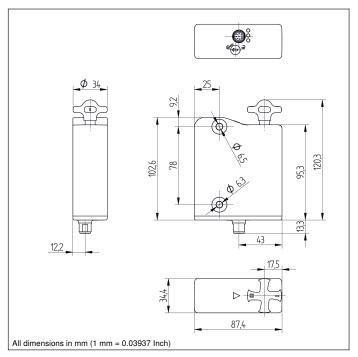
Electrical Data	
Sensor Type	Locking unit
Supply Voltage	20,426,4 V DC
Response Time	≤ 100 ms
Risk time	≤ 200 ms
Temperature Range	060 °C
Storage temperature	-1090 °C
Safety Output	OSSD
No. Safety Outputs (OSSDs)	2
PNP Safety Output/Switching Current	250 mA
Signal Outputs	1
PNP signal output switching 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
Actuator monitored	yes
Mechanical lock	yes
Detent	yes
Auxiliary release	yes
Applicable actuator	S2FP200
Connection Diagram No.	P03
Suitable Connection Technology No.	89
Suitable Mounting Technology No.	850

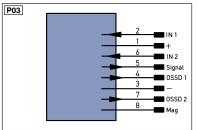
## **Complementary Products**

Safety Relay SR4B3B01S, SR4D3B01S

Software







.egen	id	PT	Platinum measuring resistor	ENA	Encoder A	
+	Supply Voltage +	nc	not connected	ENB	Encoder B	
-	Supply Voltage 0 V	U	Test Input	Amin	Digital output MIN	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	Амах	Digital output MAX	
Α	Switching Output (NO)	W	Trigger Input	Аок	Digital output OK	
Ā	Switching Output (NC)	0	Analog Output	SY In	Synchronization In	
V	Contamination/Error Output (NO)	0-	Ground for the Analog Output	SY OUT	Synchronization OUT	
V	Contamination/Error Output (NC)	BZ	Block Discharge	OLT	Brightness output	
E	Input (analog or digital)	Awv	Valve Output	М	Maintenance	
Т	Teach Input	а	Valve Control Output +			
Z	Time Delay (activation)	b	Valve Control Output 0 V			
S	Shielding	SY	Synchronization		Wire Colors according to	
RxD	Interface Receive Path	E+	Receiver-Line	DIN IEC 757		
TxD	Interface Send Path	S+	Emitter-Line	BK	Black	
RDY	Ready	±	Grounding	BN	Brown	
GND	Ground	SnR	Switching Distance Reduction	RD	Red	
CL	Clock	Rx+/-	- Ethernet Receive Path	OG	Orange	
E/A	Output/Input programmable	Tx+/-	- Ethernet Send Path	YE	Yellow	
<b>②</b>	IO-Link	Bus	Interfaces-Bus A(+)/B(-)	GN	Green	
PoE	Power over Ethernet	La	Emitted Light disengageable	BU	Blue	
IN	Safety Input	Mag	Magnet activation	VT	Violet	
OSSD	Safety Output	RES	Input confirmation	GY	Grey	
	Signal Output	EDM	Contactor Monitoring	WH	White	
	Ethernet Gigabit bidirect. data line (A-D	ENARS42	² Encoder A/Ā (TTL)	PK	Pink	
	Encoder 0-pulse 0-0 (TTL)		Encoder B/B (TTL)	GNYE	Green/Yellow	











