## **Guard Locking Device**

Electromechanic, Power to Lock Principle

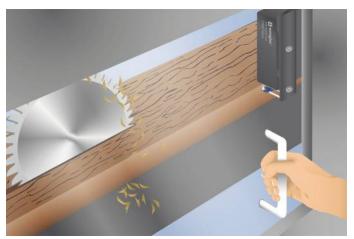
## S2FP003

Part Number



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

The electromechanical guard locking device is distinguished by a high, continuously monitored locking force of 1150 N. This means that only one guard locking device is required to attain the Cat. 4 PL e safety level (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**

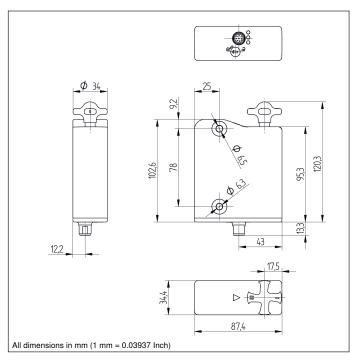
Technical Data	
Electrical Data	
Sensor Type	Locking unit
Supply Voltage	20,426,4 V DC
Response Time	≤ 100 ms
Risk time	≤ 200 ms
Temperature Range	060 °C
Storage temperature	-1090 °C
Safety Output	OSSD
Number of safety outputs (OSSDs)	2
PNP Safety Output/Switching Current	250 mA
Number of Signal Outputs	1
PNP signal output switching current	50 mA
Short Circuit Protection	yes
Protection Class	III
Mechanical Data	
Housing Material	Plastic
Degree of Protection	IP66/IP67/IP69
Connection	M12 × 1; 8-pin
Latching 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
Locking Device	Power to lock principle
Locking force F (Zh)	1150 N
Function	
Series Connection	yes
Monitored lock	yes
Mechanical Detent Mechanism	yes
Detent Mechanism	yes
Auxiliary release	yes
Applicable actuator	S2FP200
Connection Diagram No.	P03
Suitable Connection Equipment No.	89
Suitable Mounting Technology No.	850

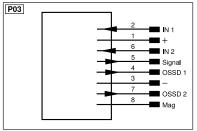
<sup>\*</sup> For locking function

## **Complementary Products**

Safety Relay SR4B3B01S, SR4D3B01S

Software





Legend						
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)	
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A	
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B	
A	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN	
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX	
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK	
⊽	Contamination/Error Output (NC)	O-	Ground for the Analog Output	SY In	Synchronization In	
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT	
T	Teach Input	Аму	Valve Output	OLT	Brightness output	
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance	
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved	
RxD	Interface Receive Path	SY	Synchronization	Wire Colo	Wire Colors according to DIN IEC 60757	
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black	
RDY	Ready	E+	Receiver-Line	BN	Brown	
GND	Ground	S+	Emitter-Line	RD	Red	
CL	Clock	±	Grounding	OG	Orange	
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow	
<b>②</b>	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green	
PoE	ower over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue	
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet	
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey	
Signal	Signal Output	Mag	Magnet activation	WH	White	
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink	
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow	
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)		•	









