## Safety Switch RFID SD4RAS01IN89

## Part Number



- Easy to clean
- High level of manipulation protection thanks to RFID coding
- Protection mode IP69K
- Universal fastening opportunities

## **Technical Data**

Electrical Data			
Sensor Type	Switch		
Supply Voltage	20,426,4 V DC		
Response Time	< 100 ms		
Risk time	< 200 ms		
Temperature Range	-2570 °C		
Storage temperature	-2585 °C		
Safety Output	OSSD		
No. Safety Outputs (OSSDs)	2		
PNP Safety Output/Switching Current	< 250 mA		
Safety Output Voltage Drop	< 1 V		
Number of Signal Outputs	1		
PNP signal output switching current	50 mA		
Short Circuit and Overload Protection	yes		
Reverse Polarity Protection	yes		
Protection Class	II		
Mechanical Data			
Switching Distance	12 mm		
Protected Sao switching-off distance	10 mm		
Protected Sar switching-off distance	16 mm		
Housing Material	Plastic		
Degree of Protection	IP65/IP67/IP69K		
Connection	M12 × 1; 8-pin		
Safety-relevant Data			
Operating principle	RFID		
Coding	Individual		
Performance Level (EN ISO 13849-1)	Cat. 4 PL e		
PFHD	2,70 × E-10 1/h		
Safety Integrity Level (EN 61508)	SIL3		
Safety Integrity Level (EN 62061)	SILCL3		
PDDB (EN 60947-5-3)	yes		
Function			
Series Connection	yes		
Applicable actuator	SD4RAA01		
Connection Diagram No.	P02		
Suitable Connection Equipment No.	89		

Separating safety devices can be easily protected up to cat. 4 PL e using these contactless safety switches, even during series connection. Response and risk times remain unchanged at all times. Extensive diagnosis functions boost system availability and make installation and maintenance easier. The locking version can be used as a stop and does not secure any small doors or flaps.



## **Complementary Products**

Safety Relay SR4B3B01S, SR4D3B01S Seal Set Z0047 Software

Safety Technology





P02

Legend PT Platinum measuring resistor ENArsez Encoder A/Ā (TTL)							
Logon		PT	Platinum measuring resistor				
+	Supply Voltage +	nc	not connected		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	Амах	Digital output MAX		
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK		
V	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In		
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT		
Т	Teach Input	Awv	Valve Output	OLT	Brightness output		
Z	Time Delay (activation)	а	Valve Control Output +	м	Maintenance		
S	Shielding	b	Valve Control Output 0 V	rsv	reserved		
RxD	Interface Receive Path	SY	Synchronization	Wire Co	Wire Colors according to DIN IEC 757		
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		
0	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green		
PoE	Power over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue		
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)		Violet		
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey		
Signal	Signal Output	Mag	Magnet activation		White		
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation		Pink		
ENO RS422	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow		

