Guard Locking Device Electromagnetic, Power to Lock Principle

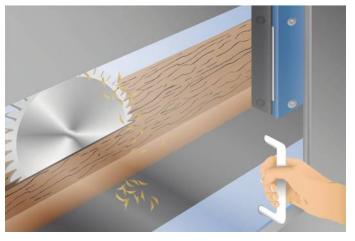
SD4ICS01SE89

Part Number



- 500 N locking force (monitored)
- Easy to clean
- **Extensive diagnosis**

This innovative guard locking device is suitable for process safety thanks to the constantly monitored locking force. Also, the safety level cat. 4 PL e (EN ISO 13849-1) can be achieved with just one guard locking device and is retained even during series connection. Response and risk times remain unchanged during series connection. Extensive diagnosis functions boost system availability and make installation and maintenance easier. Thanks to the electrical locking, no touching components whatsoever are used and therefore wear, the guard door clattering (and rattling) loudly and laborious cleaning work are avoided.



Technical Data

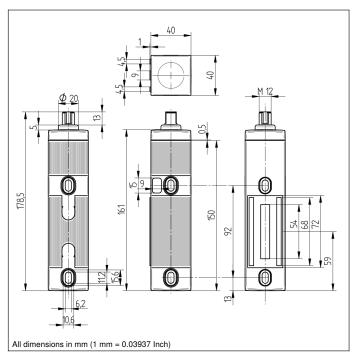
Electrical Data				
Sensor Type	Locking unit			
Supply Voltage	20,426,4 V DC			
Response Time	< 150 ms			
Risk time	< 150 ms			
Temperature Range	ange -2555 °C			
Storage temperature	-2585 °C			
Safety Output	OSSD			
No. Safety Outputs (OSSDs)	2			
PNP Safety Output/Switching Current	< 250 mA			
Signal Outputs	1			
PNP signal output switching current	< 50 mA			
ort Circuit Protection yes				
Protection Class	II			
Mechanical Data				
Housing Material	Plastic			
Degree of Protection	IP67			
Connection	M12 × 1; 8-pin			
Safety-relevant Data				
Operating principle	Inductively coded			
Coding	Standard			
Performance Level (EN ISO 13849-1)	Cat. 4 PL e			
PFHD	3,50 × E-9 1/h			
Safety Integrity Level (EN 61508)	SIL3			
Safety Integrity Level (EN 62061)	SILCL3			
PDDB (EN 60947-5-3)	yes			
Lock	Power to lock principle			
Locking Force F, guaranteed	500 N			
Locking Force Fmax, typical	750 N			
Function				
Series connection	yes			
Monitored lock	yes			
Applicable actuator	SD4ICA01			
Connection Diagram No.	P03			
Suitable Connection Technology No.	89			
Suitable Mounting Technology No.	830			

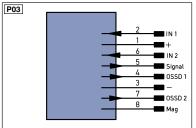
Complementary Products

Safety Relay SR4B3B01S, SR4D3B01S

Software







.egen	nd		PT	Platinum measuring resistor	ENA	Encoder A	
+	Supply Voltage +		nc	not connected	ENв	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 IE	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		Orange	
E/A	Output/Input programmable		Tx+/-	Ethernet Send Path	YE	Yellow	
•	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	Signal Output		EDM	Contactor Monitoring	WH	White	
BI_D+/-	Ethernet Gigabit bidirect. data	a line (A-D)	ENARS422	Encoder A/Ā (TTL)	PK	Pink	
- Nnesse	Encoder 0-pulse 0-0 (TTL)	, ,		Encoder B/B (TTL)	GNYE	Green/Yellow	











