## **SLC Series**





With machines, it is imperative to ensure that there is no access or entry to the dangerous area after the process has been switched off. If, for example, we think of a large flywheel mass such as rotating saw blades, the machine operator shall have no access to the dangerous area until the dangerous movement has come to a complete standstill. Safety switches with guard locking such as the SLC ensure that safety guards, doors and other covers remain closed as long as a dangerous condition persists.







# Thought through and cost-effective. **Economical and user-friendly.**

The coded SLC has been re-thought and is a further development from BERNSTEIN with optimised functions in many respects. During development, it was important to reduce the functions to the essentials, to consider the primary requirements of the customers and, in particular, to keep an eye on cost-effectiveness.

Thus, for example, mechanically highly stressed components – such as the rotating head – are made of metal. This makes it extremely robust and durable. The plastic housing, on the other hand, is light and functional.

A variant with M12 plug connector allows a particularly simple connection to the machine. Another user-friendly feature is the possibility of flexible contact assembly: The contact combination of NC and NO for monitoring the door position and the guard locking can be freely combined at the factory.

The specific requirements of our customers can be configured individually. Should it be necessary to open the guard locking when the machine is switched off – e.g. for maintenance work – the SLC is equipped with an auxiliary release as standard, which can be operated with an Allen key.

### MANY FEATURES AT A GLANCE

- Lightweight yet robust: Hybrid of metal and plastic
- Flexible contact assembly
- Integrated manual release
- Symmetrical design
- Five actuating positions
- Rotatable head (4×90°)
- · Fail-safe guard locking system
- Optional emergency release
- Optional escape release
- M12 connector as an option

## Did you know that ...

... an interlocking device with guard locking combines two safety functions in one product?

- 1. Safe monitoring of the door position
- 2. Safe monitoring of the guard lock







# **Product range**

# SLC and actuator



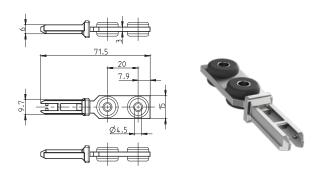
Product range							
Article number	-	locking vo	Supply voltage of	Contact configuration		Emergency	Connection type*
			solenoid	Interlock	Guard locking	release	
6018200001	SLC-F-024-11/11-R4	Spring	24 V AC/DC	1 NC / 1 NO	1 NC / 1 NO	No	Standard
6018200007	SLC-F-024-20/20-R4	Spring	24 V AC/DC	2 NC	2 NC	No	Standard
6018200008	SLC-F-024-11/20-R4	Spring	24 V AC/DC	1 NC / 1 NO	2 NC	No	Standard
6018200009	SLC-F-024-20/11-R4	Spring	24 V AC/DC	2 NC	1 NC / 1 NO	No	Standard
6018200010	SLC-F-024-10/21-R4	Spring	24 V AC/DC	1 NC	2 NC / 1 NO	No	Standard
6018200011	SLC-F-024-10/30-R4	Spring	24 V AC/DC	1 NC	3 NC	No	Standard
6018200012	SLC-F-024-30/10-R4	Spring	24 V AC/DC	3 NC	1 NC	No	Standard
6018200013	SLC-F-024-11/11-R6	Spring	24 V AC/DC	1 NC / 1 NO	1 NC / 1 NO	Yes	Standard
6018200014	SLC-F-024-20/20-R6	Spring	24 V AC/DC	2 NC	2 NC	Yes	Standard
6018200018	SLC-F-024-10/20-R4-01	Spring	24 V AC/DC	1 NC	2 NC	No	M12, 8-pin
6018200019	SLC-F-024-10/11-R4-01	Spring	24 V AC/DC	1 NC	1 NC / 1 NO	No	M12, 8-pin
6018200020	SLC-F-024-11/10-R4-01	Spring	24 V AC/DC	1 NC / 1 NO	1 NC	No	M12, 8-pin
6018200021	SLC-F-024-10/11-R6-01	Spring	24 V AC/DC	1 NC	1 NC / 1 NO	Yes	M12, 8-pin
6018200022	SLC-F-024-10/20-R4-11	Spring	24 V AC/DC	1 NC	2 NC	No	M12, 8-pin
6018200002	SLC-M-024-11/11-R4	Magnet	24 V AC/DC	1 NC / 1 NO	1 NC / 1 NO	No	Standard
6018200015	SLC-M-024-20/11-R4	Magnet	24 V AC/DC	2 NC	1 NC / 1 NO	No	Standard
6018200016	SLC-M-024-11/20-R4	Magnet	24 V AC/DC	1 NC / 1 NO	2 NC	No	Standard
6018200017	SLC-M-024-20/20-R4	Magnet	24 V AC/DC	2 NC	2 NC	No	Standard
6018200003	SLC-F-120-11/11-R4	Spring	120 V AC	1 NC / 1 NO	1 NC / 1 NO	No	Standard
6018200005	SLC-F-230-11/11-R4	Spring	230 V AC	1 NC / 1 NO	1 NC / 1 NO	No	Standard
40400000 <del>-</del>	CLC N4 120 11/11 2:		1201/46	1 NG (1 NG	1 NG /1 NG	N.	C
6018200004	SLC-M-120-11/11-R4	Magnet	120 V AC	1 NC / 1 NO	1 NC / 1 NO	No	Standard
6018200006	SLC-M-230-11/11-R4	Magnet	230 V AC	1 NC / 1 NO	1 NC / 1 NO	No	Standard

<sup>\*</sup>  $3 \times M20$  thread with closed housing wall



### **Actuators**

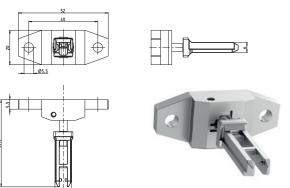
Product selection	
Article number	Designation
3911742390	ACS-1



Mechanical data	
Actuator	Stainless steel (Niro)
Minimum actuating radius R <sub>min</sub>	800 mm

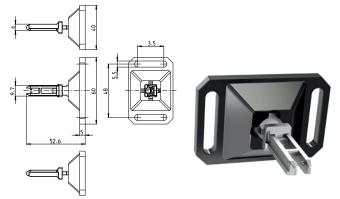
#### Product selection

Article number	Designation
3911742398	ACR-1



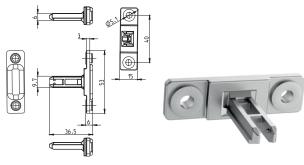
Mechanical data	
Actuator	Stainless steel (Niro)
Minimum actuating radius $R_{\min}$	150 mm
Minimum actuating radius R <sub>min</sub>	130 mm

Product selection	
Article number	Designation
3911742391	ACF-1



Mechanical data		
Actuator	Stainless steel (Niro)	
Enclosure	GD-Zn	
Minimum actuating radius $R_{\min}$	400 mm	
The actuator can be aligned with the aperture of the SLC head opening by pressing it in and turning it 90°.		

Product selection	
Article number	Designation
	Designation



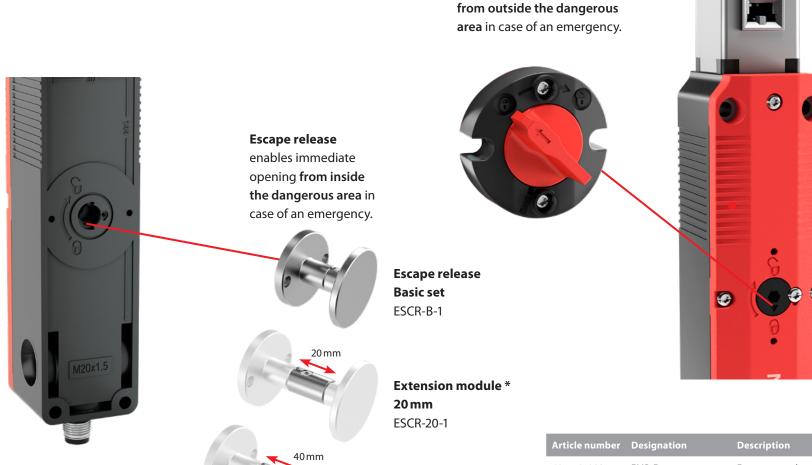
Mechanical data	
Actuator	Stainless steel (Niro)
Minimum actuating radius R <sub>min</sub>	600 mm

Actuators must be ordered separately.



## **Accessories**

# for immediate release in case of emergency



**Emergency release** 

for immediate opening

**40 mm** ESCR-40-1

**Extension module \*** 

<sup>\*</sup> Base set required to use the expansion modules.

# **SLC sliding handle** For robust applications



The handle for the SLC combines various functions:

- Ergonomic handle to open the door
- Prevents lateral forces onto the switch head
- Prevents using the switch head as an end stop
- Guarantees optimum actuator insertion

These properties simplify fault exclusion and enable PL d to be achieved in the door monitoring and locking function.

The variant with escape release (BF1-SLC ES) includes an additional handle to be able to open the door from within the danger area when using the function. This requires at least the basic set (ESCR-B).

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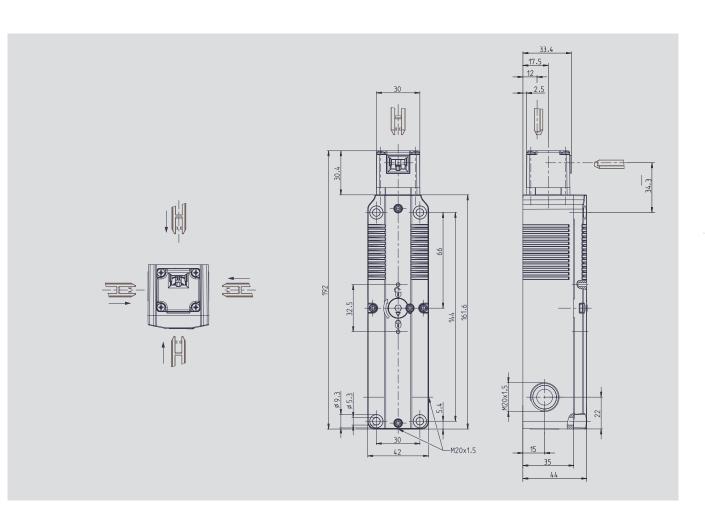
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# Altech Corp.® BERNSTEIN

## Technical data

# SLC safety switch



#### Contacts

Rated operational voltage  $U_e$ : 240 V AC/24 V DC Utilization category: AC-15, Ue / le 240 V / 1,5 A (B300) DC-13, Ue / le 24 V / 1,5 A; 250 V / 0,11 A (R300)

#### Electrical data

Operating voltage: 24 V AC / DC or 120 V AC or 230 V AC

### Mechanical data

- Enclosure: Thermoplastic, glass fibre reinforced (UL 94-V0)
- Cover: Thermoplastic, glass fibre reinforced (UL 94-V0)
- Operating device: Metal
- Latching force: 1500 N (EN ISO 14119)
- $\bullet$  Ambient temperature: -25 °C to +55 °C
- Switching principle: 4 slow-action-contacts
- Protection class: IP67

### Safety data

•  $B_{10D}$ : 2×10<sup>6</sup> cycles (EN ISO 13849-1)