

SLC Keyed Interlock Safety Switches

The new generation of safe mechanical interlock switches





The safe solution

Safety switches with keyed interlock such as the SLC ensure that safety grilles, doors and other covers remain closed as long as a dangerous condition persists.



416.663.7223



User-friendly and cost-effective

The coded SLC is a product evolution with many optimized functions.

Mechanically stressed components - such as the rotating head - are made of metal. This makes it extremely sturdy 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 contacts for monitoring the door position (interlock) and the safety control can be selected / combined when ordering.

If it is necessary to open the safety control when the machine is switched off - for maintenance work, SLC switches are equipped with an auxiliary release as standard, which can be operated with an Allen key.

Features:

- Flexible contact assembly
- Integrated manual release
- Five actuating positions
- Rotatable head (4 × 90°)
- Fail-safe locking system
- Optional emergency release
- Optional escape release
- Optional M12 connector
- 2 locking options:
 - Spring-To-Lock
 Locked by spring force.
 To unlock, the solenoid needs to be energized.
 - Power-To-Lock
 Locked by energized solenoid.
 To unlock, the energy needs to be switched off.



SLC safety switch show with SLC Sliding Handle Actuator



Specifications:

Electrical data

Contacts:

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

Solenoid:

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

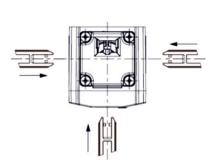
Mechanical data

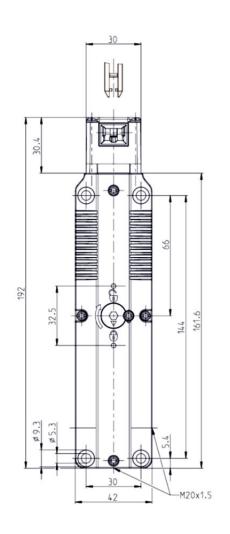
Body: Thermoplastic, fibreglass reinforced (UL 94-V0) Head: Metal Latching force: 1500 N (EN ISO 14119) Operating temperature: -25 to +55 °C Switching: 4 slow-action-contacts **IP Rating:** IP67

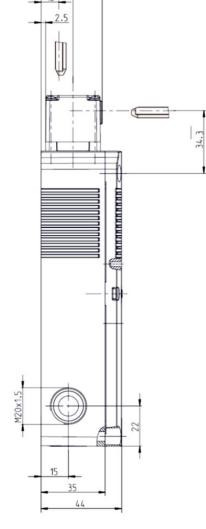
Safety data

 B_{10D} : 2 × 10⁶ cycles (EN ISO 13849-1)

Approvals: cCSAus (# 018950)





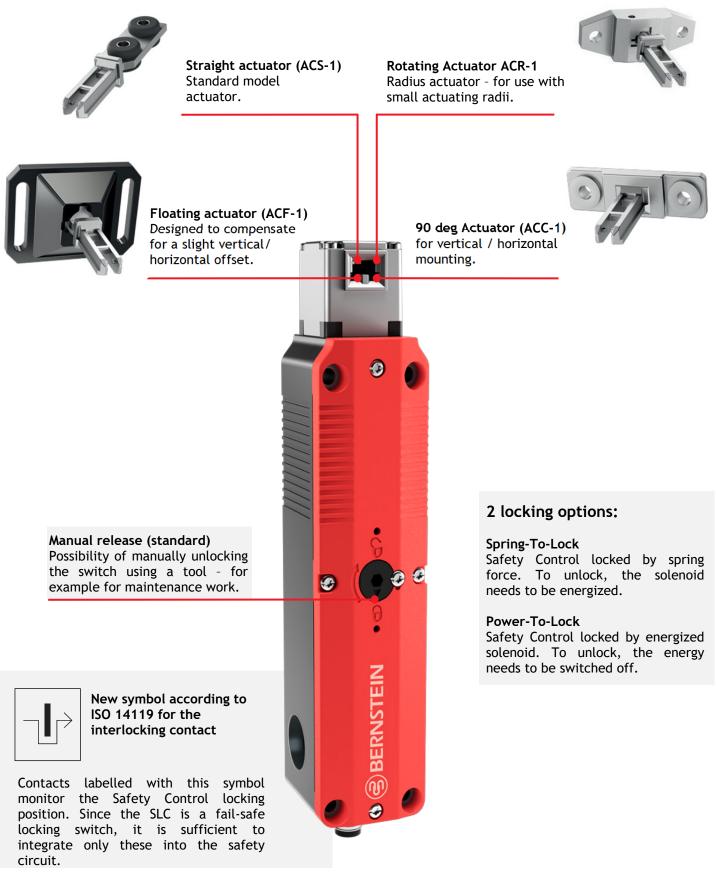


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SLC Modular concept



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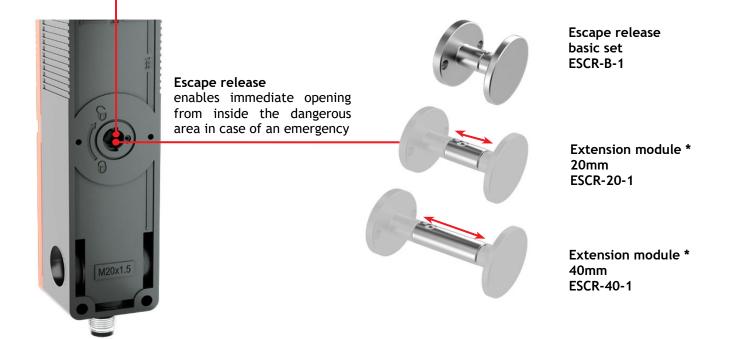


Emergency and escape releases





Emergency release for immediate opening from outside the danger area in case of an emergency



* Extension modules require the basic set ESCR-B-1



SLC Sliding Handle Actuator

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 features simplify fault exclusion and enable PL d (*) to be achieved in the door monitoring and locking function.

The version with escape release (BF1-SLC ES) includes an additional handle, which allows opening the door from within the danger area when using the function. This requires at least the basic set (ESCR-B).





Ordering SLC switches and Accessories

SLC keyed interlock safety switch (Order by Part No.)

	Model	Lock Type	Solenoid Voltage	Contact configuration			
Part No.				Keyed / Actuator	Safety Control / Solenoid	Emergency Release	Connection type
BE601.8200.001	SLC-F-024-11/11-R4	Spring	24 V AC/DC	1 NC / 1 NO	1 NC / 1 NO	No	M20 Thread
BE601.8200.007	SLC-F-024-20/20-R4	Spring	24 V AC/DC	2 NC	2 NC	No	M20 Thread
BE601.8200.008	SLC-F-024-11/20-R4	Spring	24 V AC/DC	1 NC / 1 NO	2 NC	No	M20 Thread
BE601.8200.009	SLC-F-024-20/11-R4	Spring	24 V AC/DC	2 NC	1 NC / 1 NO	No	M20 Thread
BE601.8200.010	SLC-F-024-10/21-R4	Spring	24 V AC/DC	1 NC	2 NC / 1 NO	No	M20 Thread
BE601.8200.011	SLC-F-024-10/30-R4	Spring	24 V AC/DC	1 NC	3 NC	No	M20 Thread
BE601.8200.012	SLC-F-024-30/10-R4	Spring	24 V AC/DC	3 NC	1 NC	No	M20 Thread
BE601.8200.013	SLC-F-024-11/11-R6	Spring	24 V AC/DC	1 NC / 1 NO	1 NC / 1 NO	Yes	M20 Thread
BE601.8200.014	SLC-F-024-20/20-R6	Spring	24 V AC/DC	2 NC	2NC	Yes	M20 Thread
BE601.8200.018	SLC-F-024-10/20-R4-01	Spring	24 V AC/DC	1 NC	2NC	No	M12, 8-pin
BE601.8200.019	SLC-F-024-10/11-R4-01	Spring	24 V AC/DC	1 NC	1 NC / 1 NO	No	M12, 8-pin
BE601.8200.020	SLC-F-024-11/10-R4-01	Spring	24 V AC/DC	1 NC / 1 NO	1 NC	No	M12, 8-pin
BE601.8200.021	SLC-F-024-10/11-R6-01	Spring	24 V AC/DC	1 NC	1 NC / 1 NO	Yes	M12, 8-pin
BE601.8200.022	SLC-F-024-10/20-R4-11	Spring	24 V AC/DC	1 NC	2NC	No	M12, 8-pin
BE601.8200.002	SLC-M-024-11/11-R4	Power	24 V AC/DC	1 NC / 1 NO	1 NC / 1 NO	No	M20 Thread
BE601.8200.015	SLC-M-024-20/11-R4	Power	24 V AC/DC	2 NC	1 NC / 1 NO	No	M20 Thread
BE601.8200.016	SLC-M-024-11/20-R4	Power	24 V AC/DC	1 NC / 1 NO	2 NC	No	M20 Thread
BE601.8200.017	SLC-M-024-20/20-R4	Power	24 V AC/DC	2 NC	2 NC	No	M20 Thread
BE601.8200.003	SLC-F-120-11/11-R4	Spring	120 V AC	1 NC / 1 NO	1 NC / 1 NO	No	M20 Thread
BE601.8200.005	SLC-F-230-11/11-R4	Spring	230 V AC	1 NC / 1 NO	1 NC / 1 NO	No	M20 Thread
BE601.8200.004	SLC-M-120-11/11-R4	Power	120 V AC	1 NC / 1 NO	1 NC / 1 NO	No	M20 Thread
BE601.8200.006	SLC-M-230-11/11-R4	Power	230 V AC	1 NC / 1 NO	1 NC / 1 NO	No	M20 Thread

Information subject to change without notice

Accessories: Actuators / emergency releases / sliding handles (Order by Part No.)

Part No.	Model	Description	
BE391.1742.390	ACS-1	Straight actuator; stainless steel; min actuating radius: 800mm	
BE391.1742.391	ACF-1	Floating actuator; stainless steel / GD-Zn; min actuating radius: 400mm	
BE391.1742.392	ACC-1	90-degree actuator; stainless steel; min actuating radius: 600mm	
BE391.1742.398	ACR-1	Rotating actuator; stainless steel; min actuating radius: 150mm	
BE605.1101.003	EMR-F-1	Emergency release front; black/red	
BE605.1101.004	EMR-B-1	Emergency release BACK; black/red	
BE605.1201.005	ESCR-B-1	Escape release; basic set	
BE605.1201.007	ESCR-20-1	Extension module for escape release; 20mm	
BE605.1201.006	ESCR-40-1	Extension module for escape release; 40mm	
BE605.0101.002	BF1-SLC	Sliding handle for SLC	
BE605.1201.008	BF1-SLC-ES	Sliding handle for SLC with escape release	

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