

# SLC Keyed Interlock Safety Switches

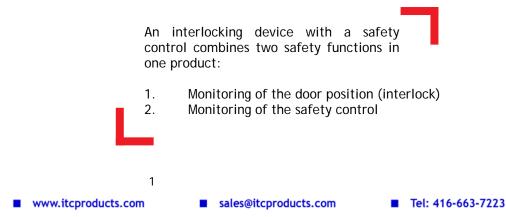
The new generation of safe mechanical interlock switches





## 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.



ITC Electrical Components



### 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

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#### 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

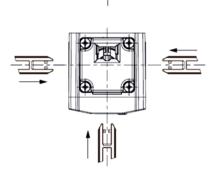
Mechanical data

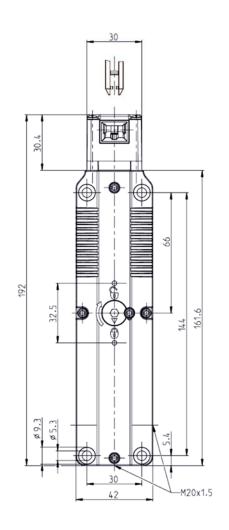
Body: Thermoplastic, fibreglass reinforced (UL 94-V0) Head: Metal Latching force: 1500 N (EN ISO 14119) Operating temperature: -25 to +55 °C Switching: 4 slow-action-contacts IP Rating: IP67

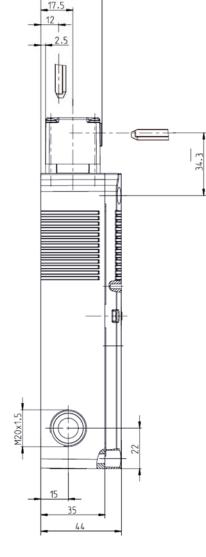
Safety data

B<sub>10D</sub>: 2 × 10<sup>6</sup> cycles (EN ISO 13849-1)

Approvals: cCSAus (# 018950)



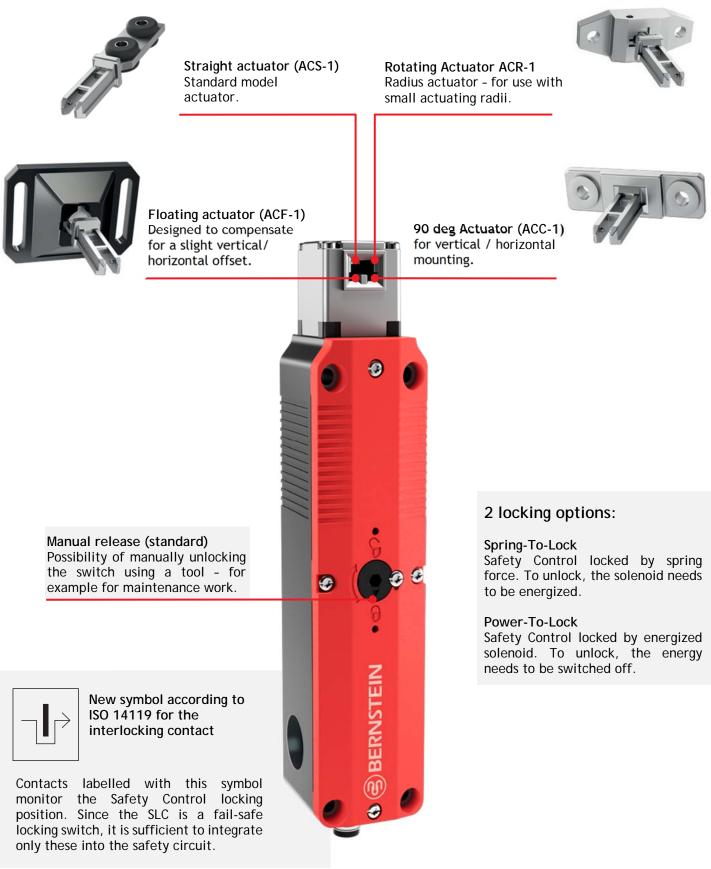




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### SLC Modular concept



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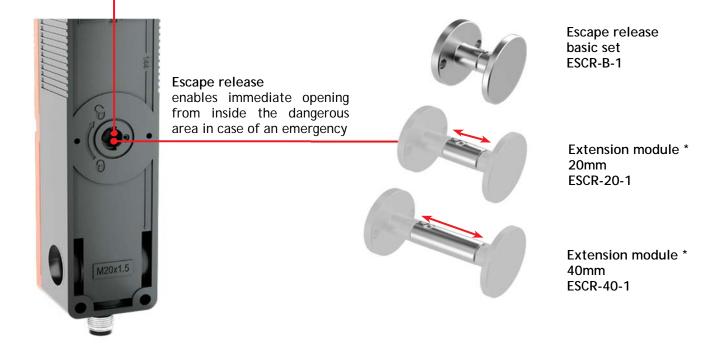


# Emergency and escape releases

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





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

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# **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).



\* PL d: Probability of failure between 10<sup>-7</sup> and 10<sup>-6</sup> per hour

Tel: 416-663-7223

### Ordering SLC switches and Accessories

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

				Contact configuration			
Part No.	Model	Lock Type	Solenoid Voltage	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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