

# 3SB34 Switching Element with Mounting Monitoring

Enhanced safety and availability of systems



It is common practice to equip actuators such as EMERGENCY-STOP buttons with standard switching elements. The disadvantage: The correct interconnection of both components and their impeccable functioning in case of emergency cannot be reliably assured. Least of all during ongoing operation. The new 3SB34 switching element with mounting monitoring from the SIRIUS range, which automatically monitors both the connection to the actuator as well as the correct mounting on the EMERGENCY-STOP, offers more safety.

#### The advantages are obvious:

- Increased safety through the test required for initial commissioning
- Enhanced system availability through automatic monitoring of the mounting state during operation (according to Machinery Directive)
- Space savings through compact size and low mounting depth (max. 63 mm)
- Free slot through integrated mounting monitoring

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## Functional principle of the 3SB34 switching element

Compared to standard switching elements, the new and compact SIRIUS 3SB34 switching element monitors the proper mounting on and correct connection to an actuator such as an EMERGENCY-STOP button. In case of incorrect mounting or drop-out from the actuator, the innovative switching element initiates an automatic shutdown of the machine or system. As long as the system is in operation, it is thus ensured that all required contacts function impeccably.

In addition to increased safety, the SIRIUS 3SB34 switching element also supports compliance with the Machinery Directive. First of all, this applies to initial commissioning: The circuits only close to enable the switching element for operation after implementation of a function test as specified by the directive, i. e. after one-time activation. Moreover, it offers operational advantages: The switching element's mounting state is continuously monitored and the machine is immediately shut down in case of faults. The added value for system operators: reduced downtimes and fully available systems.

## Mounting, commissioning and failure

Work steps	Operating state of the switching element (monitored state)	System state
Delivery state	open	Mounting
Mounting	open	
1 <sup>st</sup> operation	open	
1 <sup>st</sup> release (reset)	closed	Commissioning
2 <sup>nd</sup> operation	open	
2 <sup>nd</sup> release (reset)	closed	Operation
Switching element separated from actuator	open	
		Failure (no reset)

Connection system	Order Number
Screw-type connection	3SB3400-0M
Spring-loaded connection	3SB3403-0M

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