

Presentation in the deactivated condition:
Key removed

STS/K-System Benefits

- EU-Test certificate according to the directive 2006/42/EG, annex IX
- For safety applications up to PLe/Category 4 according to EN ISO 13849-1
- Modular and expandable system
- Rugged composite version of stainless steel and plastic design
- Wireless mechanical safeguarding
- Combines the benefits of safety switch, solenoid locking and key transfer in a single system
- Easy installation through comprehensive accessories
- Protection against lock-in
- Coding level low, medium, high according to DIN EN ISO 14119:2014-03

Features

- The unit is particularly suitable for applications with:
- Full body access (lock-in danger)
- Optional key removal
- Several secured entries
- Rugged ambient conditions
- This unit is also available in stainless steel

Approvals and Markings



Function

Safety switch (type 2) for separating guards with optional key removal.

Application

To secure separating guards such as safety gates and hoods in machine and plant engineering.

Design and Operation

Attention!



Hazards must be ruled out before the movable part of the guard can be opened!
Optionally, a key can then be removed.

The STS/K switch unit must be integrated into a system and connected with a control unit so that the hazardous machine can only run when the guard is locked and closed.

The key can be removed at any time, whereby hazards must be ruled out immediately. If the access is opened and the actuator is removed from actuator module B/K the key can be removed from key module 01/K. The door is now blocked when open and an escape route is thus secured. Only after the key has been returned to its starting position and the door was then closed can the machine be restarted. Opening of the access is queried by the contacts of actuator monitoring.

SXB01M/K is usually used in the system in connection with additional STS/K units and SAFEMASTER products (e.g. Emergency stop module LG 5925, Softstarter with DC-Brake BL 9228). The key with optional removal can serve as protection against lock-in or for the operating release of these units (e.g. M10BM/K, M11BM/K, M12M/K, M10B01M/K).

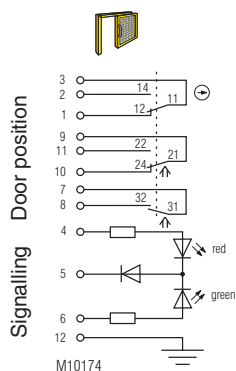
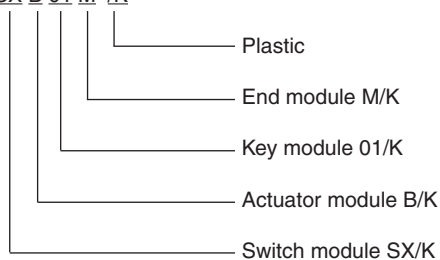


Fig. 2:
Lock deactivated:
Actuator removed
Door open

Door contacts	3	2	Fig. 1	Fig. 2
	3	1		
	9	11		
	9	10		
	7	8		

Ordering Example

STS- SX B 01 M /K



Variants and Combination Options

Because of their modular design the basic units of the SAFEMASTER STS/K System can be combined and expanded according to customer requests. This allows for a variety of possible units and functions.

Overview of the basic units

Functions	Safety switches design type 2	Safety switches design type 2 with solenoid lock	Mechanical units design type 2	Mechanical units with electrical monitoring	Mechanical units with electrical release
Units with standard function	SXBM/K	ZRHBM/K	M10BM/K	RXK01M/K RX10BM/K	YRXKM/K YRXK01M/K
Units with mechanical lock and forced key extraction	SX01BM/K	ZRH01BM/K	M11BM/K	RXK11M/K RX11BM/K	YRX10BM/K YRX11BM/K
Units with optional key extraction	SXB01M/K	ZRHB01M/K	M10B01M/K	RX10B01M/K RX10K01M/K	YRX10B01M/K
Units without actuator	SX01M/K	ZRH01M/K	M12M/K	RX11M/K	YRX11M/K

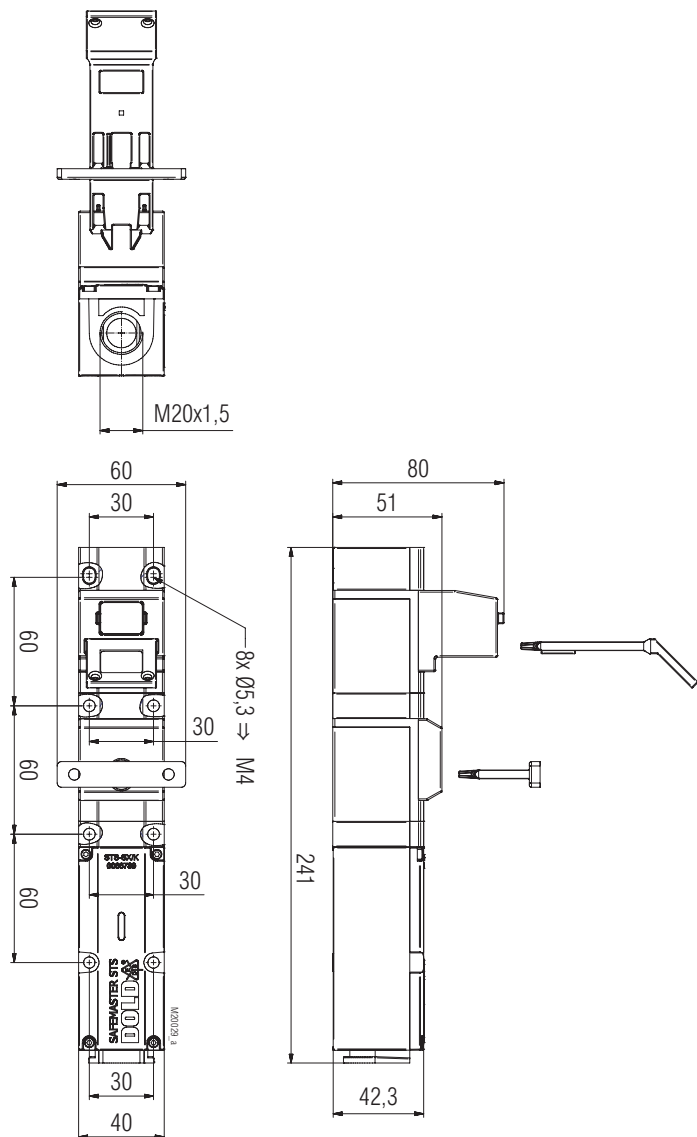
For additional information refer to the data sheets of the individual modules and other basic units.

Data sheets

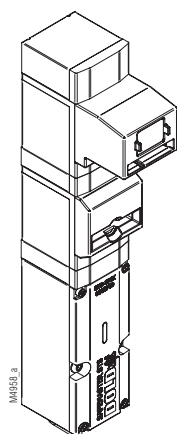
Switching module SX/K
Actuator module B/K
Key module 01/K / 10/K
End module M/K



Take advantage of the advice of the **E. DOLD & SÖHNE KG** specialists regarding the choice of units and combination of a system.



SXB01M/K
Clearance tolerances $\pm 2\%$



SXB01M/K