Datasheet ENGLISH



SAFEMASTER STS
Safety switchand key interlock system
actuator CS

Translationof the original instructions



E. DOLD & SÖHNE KG

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Symbol and Notes Statement



DANGER:

Indicates that death or severe personal injury will result if proper precautions are not taken.



WARNING:

Indicates that death or severe personal injury can result if proper precautions are not taken.



CAUTION:

Indicates that a minor personal injury can result if proper precautions are not taken.



INFO:

Referred information to help you make best use of the product.



ATTENTION:

Warns against actions that can cause damage or malfunction of the device, the device environment or the hardware / software result.

General Notes

The product hereby described was developed to perform safety functions as a part of a whole installation or machine. A complete safety system normally includes sensors (SAFEMASTER STS System), evaluation units, signals and logical modules for safe disconnections. The manufacturer of the installation or machine is responsible for ensuring proper functioning of the whole system. DOLD cannot guarantee all the specifications of an installation or machine that was not designed by DOLD. The total concept of the control system into which the device is integrated must be validated by the user. DOLD also takes over no liability for recommendations which are given or implied in the following description. The following description implies no modification of the general DOLD terms of delivery, warranty or liability claims.

Notes



Risk!

Danger to life or risk of serious injuries.

 Hazards must be ruled out before a key can be entered and the movable part of the guard can then be opened!



INFO

- For information regarding use in the system and validation according to EN ISO 13849-2, see SAFEMASTER STS application guide.
- Take advantage of the advice of the E. DOLD & SÖHNE KG specialists regarding the choice of units and combination of a system.



ATTENTION!

 To avoid wrong usage (e.g. by overload, mounting position or usage in acid, alkaline or other hostile ambient conditions) the limitations of the product have to be observed. Please check in advance if your application requires the usage of the more robust stainless steel model of SAFEMASTER STS. The requirements of the mounting and operating instruction must be fulfilled.

Before installing, operating or maintaining this device, these instructions must be carefully read and understood.



The installation must only be done by a qualified electrican!



The installation must only be done by a qualified mechanic!



Do not dispose of household garbage!

The device must be disposed of in compliance with nationally applicable rules and requirements.



Storage for future reference.

To help you understand and find specific text passages and notes in the operating instructions, we have important information and information marked with symbols.

Safety Technique

SAFEMASTER STS Safety switch- and key interlock system Actuator CS





Presentation: Coded

STS-System Benefits

- EU-Test certificate according to the directive 2006/42/EG, annex IX
- For safety applications up to PLe/Cat. 4 according to DIN EN/ISO 13849-1
- Modular and expandable system
- · Rugged stainless steel design
- · Wireless mechanical safeguarding
- Combines the benefits of safety switch, locking module 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

- Actuator with sliding bolt
- Flexible and adjustable actuator
- Can be coded
- · Optionally with release function
- Manual adjustment of vertical offset during operation

Product Description

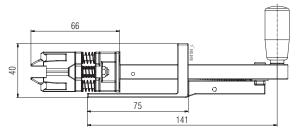
The actuator CS series is used in connection with the SAFEMASTER STS units which are equipped with integrated actuator modules A, B, D, E or K. Generally, the actuators are fitted to the movable part of a separating guard and are used to switch the associated STS unit.

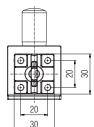
Approvals and Markings

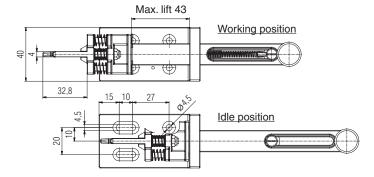


Dimensional Drawings [mm]

Presentations show the coded version







Design and Function

The actuator CS consists of a flexible actuator C and additional door handle. It serves as a door bolt on hinged doors. Its special construction permits height differences of \pm 6 mm between door bolt and actuator module. Therefore, this will compensate for installation inaccuracies. Moreover, the actuator CS is designed for high shearing and tension forces to the extent that overload breaks can be largely excluded. Refer to data sheet Actuator C for the adjustment of incline and radius of the actuator CS.

In situations such as safety entries which can be slammed shut with such a great force that the more simple actuators T and C can no longer ensure a perfect function of the actuator module, the actuators CS are used.

The actuator CS is designed in such a way that in a damaged condition, that is, with screws coming loose, it still keeps the hinged door secured by it reliably locked.

ATTENTION!



Prerequisite: The gap to safety gate and door frame must be smaller than 15 mm.

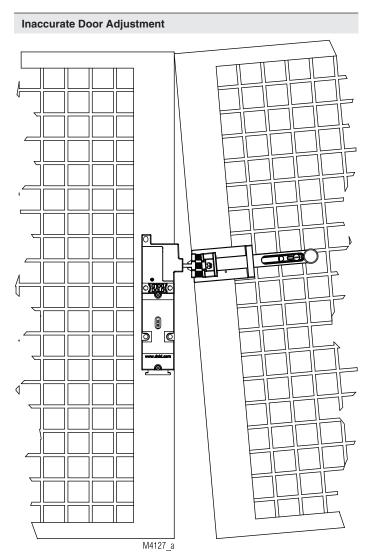
Technical Data

Material

Actuator: Stainless steel V4A / AISI 316

Spring: V2A / AISI 304

Handle: ABS



Variants

CS₁

If the actuator CS is to be fitted in a vertical position, the CS1 version is to be selected. It was specifically designed for vertical installation and is equipped by a stronger return spring. This also pulls the actuator safely up against the gravitational force.

The installed actuator C is mounted rotated by 90°.

CS2

This version has a limited vertical offset

CS₃

This version is equipped with a stronger return spring for vertical installation. The installed actuator C is not installed rotated.

CKS

The actuator CS can also be coded. The delivery of this coded actuator is always done in pairs with an associated coded actuator module D or E. Different types of coding are available. The coding used will not be identified on the actuator. The product designation then becomes CKS. Coding level medium according to DIN EN ISO 14119:2014-03

CSF

In addition, these actuators can be designed with an opening of escape release function (pull cable with handle). In this case, the product designation receives the letter F in addition.

Examples: actuator CSF or CKSF.

Refer to the customer information for additional details on selecting the actuator.

Accessories

Mounting plate CS

To facilitate mounting to machines and plants (see separate data sheet mounting plate CS)

Ordering Designation

Actuator CS

Article number: 0062334

Actuator CS1

Article number: 0063749

Actuator CS2

Article number: 0064327

Actuator CS3

Article number: 0064857

Actuator CKS

Article number: 0063968

Actuator CSF

Article number: 0065112